ECLER

CA200Z

MIXING AMPLIFIER
AV Integration Digital Mixing Amplifier

USER MANUAL

INDEX

1. IMPORTANT REMARK

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: SHOCK HAZARD - DO NOT OPEN
AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of " ⚡ " may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: An apparatus with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

2. IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Unplug the apparatus during lightening sorts or when unused for long periods of time.

13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket. For this reason, it always shall remain easily accessible.

15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.

16. The marking information is located at the bottom of the unit.

17. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animal or objects due to failure to comply with the warnings above.

3. IMPORTANT NOTE

Thank you for choosing our Ecler **CA200Z AV Integration Digital Mixing Amplifier**!

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorised Technical Services.

Ecler **CA200Z** comes with a **3-year warranty**.

4. COMPLIANCE WITH INTERNATIONAL STANDARDS

The CA200Z Compact Amplifier complies with the following international standards:

- EN55103-1   Electromagnetic Compatibility.
  Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use
  Part 1: Emission

- EN55103-2   Electromagnetic Compatibility.
  Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use
  Part 2: Immunity

- EN60065   Audio, video and similar electronic apparatus. Safety requirements
  Complying with the requirements of directives 73/23/EC and 2004/108/EC

5. INTRODUCTION

The CA200Z is a 2 channel amplifier and digital mixer, capable of managing 2 independent audio zones and equipped with many remote control functions (RS-232 serial port, infrared remote control, 0-10VDC remote control ports). It is an ideal choice for audio applications requiring audiovisual integration with other devices: educational classes, meeting rooms and multimedia presentations, business premises, etc.

5.1. Main features

- 2 x 70 W RMS @ 4Ω amplifier
- Operation in STEREO/MONO/BRIDGE/2 INDEPENDENT ZONES modes (at the level of assigning audio, line and microphone sources, volume management, remote control, sending notices, etc.)
- Universal internal power supply
- 4 stereo line inputs + 2 balanced microphone inputs
- Duplicate MIC2 and LINE2 inputs on the front panel for quickly and conveniently connecting portable audio players, microphones for presentations, etc. (3.5 mm mini jack and 6.35 mm jack connectors, respectively)
- Auxiliary output for connecting to other amplifiers or external audio devices
- Global MUTE connector for silencing the entire unit by closing an external contact (for example: when an alarm centre needs to mute the device in order to activate an evacuation siren)
- Local control with backlit keys, digital rotary encoder knob, and front LCD display
- Infrared remote control (included): source and volume selection by zones, presets recovery, etc.
- Remote control through RS-232 port and CA-NET protocol
- 2 inputs for independent remote zone control (0-10 VDC) by 2 wall panels: WPmVOL (volume) or WPmVOL-SR (volume + source or presets selection)
- TALKOVER and/or PAGER functions from microphone inputs
- Compatible with MPAGE4 tabletop paging station for sending priority voice messages with the PAGER function
- 5 configuration memories (presets) recoverable from the front panel, the IR control, the WPmVOL-SR control or the RS-232 communications port
- AUTO STANDBY function: in the absence of an audio signal the unit automatically goes into *STANDBY* mode, minimising power consumption
- Lightweight, silent, high-performance amplifier (fan-free convection cooling)

6. INSTALLATION

WARNING: Non-compliance with the instructions or neglecting warnings may cause malfunction or even damage the unit:

1. Avoid turning on the device without the speakers connected to its outputs and without having previously set the volume/gain controls to minimum level.

2. Always use shielded cables to make connections between devices.

3. In an amplifier, avoid placing the speaker output cables close to other signal cables (micro, line…). This may cause the system to oscillate, damaging the amplifier and speakers.

6.1. Location and assembly

The CA200Z can be installed on a tabletop, in a standard 19" wide rack cabinet or in a standard 9.5" wide half-rack cabinet. Any of these installation options is possible using the available rack installation accessories (kit of 2 **2UHRMKIT** supports, not included as standard).

6.2. Mains connection

The amplifier is powered by alternating current through its internal power source: 90-264VAC and 47-440Hz.

The amplifier's AC power cable must be earthed through its mains cable (earth resistance Rg = 30Ω or lower). The working environment should be dry and completely dust-free. Do not expose the unit to rain or water splashes. Do not place liquid containers or incandescent objects such as candles on top of the unit.

Always unplug the unit from the mains supply before working on or connecting/disconnecting the amplifier. There are no elements that can be manipulated by the user inside the amplifier.

To avoid buzzing, do not allow the power cable to intertwine with the shielded audio cables that transport the signal.

6.3. Audio input connections

The CA200Z accepts two types of signals in its input channels:

- Microphone (**MIC**): with balanced Euroblock-type connections on the rear panel or jack (MIC2) connections on the front panel that can accept a signal level between -20 dBV and −50 dBV with adjustable sensitivity through its ADJ control

  Note: The microphone inputs have phantom power to supply condenser microphones, activated by the internal jumper (see 11. CONFIGURATION DIAGRAM section). This option comes disabled (OFF) by default or from the factory.

- Line signals (**LINE 1** to **LINE 4**): equipped with a non-balanced mini jack stereo connection on the front panel (LINE 2) or double RCA on the rear panel (LINE1 to LINE4). They can admit nominal signals of -6 dBV and 0 dBV, with input sensitivity that can be adjusted through internal jumper (see section 11. CONFIGURATION DIAGRAM). These can be used to connect signals from CD players, radio tuners, mixing consoles, media players, PC and tablet audio outputs, etc.

  Note: Turntables CAN NOT BE CONNECTED directly to this device because none of the inputs have an RIAA preamp.

Active audio sources are selected/deselected by a short press of the front panel keys labelled LINE 1 to 4, MIC1 and MIC2. The possible source selections are:

- LINE SELECTION:
    - -Pressing one of the LINE1 to LINE4 keys activates the corresponding line input (LED lit = selected source)
    - -Two or more sources of this type cannot be selected simultaneously: when one line input is selected, the previous one is deselected
    - -A selected source (LED lit) is deselected when its key is pressed again (all LEDs off), leaving the unit without an active line

- MICROPHONE SELECTION:
    - -Pressing either the MIC1 or MIC2 keys activates the corresponding microphone input (LED lit = microphone selected)
    - -One, both or neither microphone can be selected simultaneously (both LEDs lit)
    - -A selected microphone (LED lit) is deselected (LED off) when its key is pressed again

Note: Sources can also be selected with a remote control, with a WPmVOL-SR remote control panel (only LINE sources) or with the serial communication port. It is also possible to store presets that have a determined combination of active sources and recover them later with any of the available methods. Continue reading this manual to learn the details of all of these options.

The way in which the active (selected) sources are directed to the unit's outputs depends on its operating mode:

OPERATING MODE	ROUTING SIGNALS TO THE OUTPUTS
STEREO (**St** displayed on the LCD screen)	The selected line is sent in stereo configuration to the outputs (input L to output A (L) and input R to output B (R)) The selected microphones are either simultaneously sent to both outputs (L and R) either as a direct sum of the line signal or using the TALKOVER / PAGER function (*)
MONO (**Mo** displayed on the LCD screen)	The selected line is sent in mono configuration (L+R) to both outputs (input L + input R to outputs L and R) The selected microphones are sent simultaneously to both outputs (L and R) either as a direct sum via the line signal or with the TALKOVER / PAGER function (*)
BRIDGE (**Br** displayed on the LCD screen)	The selected line is sent in mono configuration (L+R) to the single output in bridge mode (the speakers must be connected using the rear panel's BRIDGE + and - connectors) The selected microphones are sent to the single output in bridge mode (rear panel's BRIDGE + and - connectors), either as a direct sum via the line signal or with the TALKOVER / PAGER function (*)
ZONES A/B (**ZA** or **ZB** displayed on the LCD screen)	Each output zone is monophonic and can have a source selection and/or microphones that are independent from each other: • ZONE A: can receive the signal from one line (L+R) and/or one of the two microphones • ZONE B: can receive the signal from one line (L+R) and/or one of the two microphones Consequently the two zones are totally independent in terms of output volumes, selection of received sources and broadcast volumes. The microphones can work on the output zone directly, either as a direct sum via the line signal selected or with the TALKOVER / PAGER function (*)

(*) If the Talkover function is active, the microphone signal attenuates the line signal when it exceeds the activation threshold. In addition, if an MPAGE4 alert console is connected to the PAGER connector and the PAGER function of the MIC1 input is activated, it is possible to select the destination of the voice message emitted by the console, directing it either to zone A, zone B or both (internally the PAGER connector delivers its microphone signal to the MIC1 input).

6.4. Audio output connections

The amplified outputs (**OUT L (A)** and **R (B)**) are equipped with Euroblock connectors.

The cable that connects the CA200Z outputs and the speakers should be of good quality, with a suitable cross-section and as short as possible.

The outputs can operate in stereo mode, mono mode (same L+R signal in both channels), bridge mode (L+R signal amplified through both channels, linked together as one) or ZONES A and B independently (each output receives a set combination of active audio sources and volumes). Modes are selected from the unit's SETUP menu (see section 7.2 Special setup mode for more information) or from an external device using the serial or RS-232 port.

In bridge mode, the output signal is connected through the terminals marked BRIDGE + and - on the rear panel.

Remember that the minimum operating impedance for the amplifiers in mono or stereo mode is 4Ω, and 8Ω when working in bridge mode. For the correct operation of the CA200Z, under no circumstances should you work with impedances lower than those specified above.

Attention: only the terminals indicated as BRIDGE on the unit's serigraph can be used for connecting the speakers in bridge mode.

Additionally, the CA200Z has an unamplified auxiliary output (**AUX OUT**) which makes it possible to connect it to amplifiers or other external devices. The auxiliary output **AUX OUT** supplies a line signal level (0 dBV) which is an unamplified replica of the signal delivered to the terminals **OUTPUT L** and **R**.

6.5. Remote control options

- **REMOTE1 and REMOTE2** ports: each RJ-45-type **REMOTE** connector can be connected to a WPmVOL or WPmVOL-SR wall control panel (control 0-10 VDC). In STEREO, MONO and BRIDGE modes, the panel connected to the REMOTE1 port actuates on the 2 amplifier outputs and the REMOTE2 port is disabled. In ZONES A and B mode, the panel connected to the REMOTE1 port is associated to output A, and the panel connected to the REMOTE2 port to output B.

The following can be controlled from each panel (*):

- o the general volume adjustment of the associated output (A, B, or both), depending on the operating mode selected, STEREO/MONO/BRIDGE/ZONES

- o the selection of the LINE source for the associated output (OFF, LINE1, LINE2, LINE3, LINE4)

- o the selection of a preset, from 1 to 5 (**), which, when selected, recovers the configuration that was stored in memory when the preset was saved (source selection, updating adjustments, volumes, etc.)

(*) WPmVOL can only control the volume, whereas WPmVOL-SR can control the volume and select sources or presets

(**) In ZONES (A and B) mode, only one of the two remote panels can recover presets (when this function is activated in one panel, the option automatically disappears from the SETUP menu of the other)

The connection is made with a standard CAT5 cable between the WPmVOL or WPmVOL-SR wall panel and the CA200Z's REMOTE connector.

The total volume of each output is a result of the concatenation of the MASTER volume, adjusted with the rotary encoder knob on the CA200Z's front panel or with the infrared remote control, and the REMOTE volume, adjusted with each associated panel, if any.

When actuated, the remote panel volume is displayed for a few moments on the front panel's LCD screen with the text REMOTE VOL 1 or 2 and a volume bar. In ZONES mode, this volume is only displayed if the zone associated with the panel in question has been selected on the screen.

Note: [See section 7.2 Special setup mode](#) for instructions on how the operating modes of the ports REMOTE1 and REMOTE2 are programmed.

Note: Configure the internal jumpers on the WPmVOL or WPmVOL-SR panels in **10V/Alog** mode for the CA200Z to operate correctly

- **MUTE** port: the **MUTE** connector on the rear panel makes it possible to connect an potential-free external contact closure to totally silence the CA200Z if an external device actuates on it (example: a centralised emergency and evacuation warning system). For the MUTE port to be active, ports REMOTE1 or REMOTE2 can not be deactivated (OFF position)

o The REMOTE1 port must be active (other than OFF) for the MUTE port to be able to silence both of the unit's outputs when it receives an external contact closure in STEREO, MONO or BRIDGE modes

o When the port receives a single external contact closure in ZONES mode, the REMOTE1 port must be active (other than OFF) for the MUTE port to be able to silence output A, whereas the REMOTE2 port must be active (other than OFF) for the MUTE port to be able to silence output B

Note: See section 7.2 Special setup mode for instructions on programming the operating modes of ports REMOTE1 and REMOTE2 to enable the silence function associated with the **MUTE** port

- **RS-232** port: the serial communication port **RS-232** allows remote management of the CA200Z from a computer or external control system supporting the **CA-NET** protocol. See the **CA-NET** protocol manual for detailed information on connection and the syntaxes of the supported commands. The serial connection specifications are as follows:

    o Baud rate: 9600 (fixed, without auto-negotiation)

    o Data bits: 8

    o Parity: None

    o Stop bits: 1

    o Flow control: None

    o Cable: standard RS-232 DB9-DB9 (pin to pin)

- **IR** receiver: the integrated IR receptor enables controlling the CA200Z with the remote control that comes with the unit:

    o Zone selection keys (ZONE A / B). Enables selecting the output zone that will be adjusted afterwards. After pressing the A or B key it will be possible to adjust the MASTER volume, use the MUTE control, select audio sources, etc. It is possible to change the selected zone on the unit's front panel by briefly pressing the front rotary encoder knob (only in ZONES mode).

    o Keys A and B and briefly pressing the rotary encoder knob do not work when the unit is in a mode other than ZONES mode, given that adjustments in these other modes will be shared by both outputs

    o VOL + and - keys in the ZONE section: the MASTER volume of the previously-selected zone increases/decreases by pressing the keys. This works the same as turning the unit's front rotary encoder knob in default

operation mode. Pressing and holding these keys increases or decreases the volume continuously.

- o MUTE key: activates/deactivates the full silence of the previously-selected zone

- o LINE keys 1 to 4: enable selecting/deselecting a LINE source as active for the previously-selected zone (the same as the LINE1 to LINE4 keys on the front panel)

- o VOL + and - keys in the LINE section: the volume of the previously-selected source for the likewise previously-selected zone increases/decreases with each press of the key. A single source has independent volume adjustments for sending to zones A and B when operating in ZONES mode (example: the LINE1 source can be sent with volume of 50 to zone A and at a volume of 62 to zone B, etc.). If no LINE is selected, these controls are not operative, and the LCD screen displays the message "LINE NOT SELECTED"

- o MIC1/MIC2 keys: enable selecting/deselecting a MIC source as active for the previously-selected zone (the same as the MIC1 and MIC2 keys on the front panel)

- o VOL + and - keys in the MIC1 or MIC2 section: the volume of the MIC source in question for the previously-selected zone increases/decreases with each press of the key. A single microphone source has independent volume adjustments for sending to zones A and B when operating in ZONES mode (example: MIC1 can be sent at a volume of 35 to zone A and at a volume of 57 to zone B, etc.)

- o PRESET keys: enable recovering one of the CA200Z 5 presets or configuration memories. These keys must be held down for a few seconds to recover the preset in question, while the active preset is displayed on the LCD screen as P1, P2, P3, P4 or P5

- o ON/STBY key: Enables changing from STANDBY mode to ON mode and vice versa. To change from ON to STANDBY, this key must be pressed and held for a few moments

Note: The first time a key that actuates in timed mode is pressed (PRESET 1-5 and ON/STBY), it wakes up the LCD panel if it is off, in attenuated inactivity in the DIMMED or OFF modes, or if the CA200Z is in AUTO STAND BY mode. If the key is held down (long pulsation) or released and pressed again, the CA200Z will execute the associated function.

7. OPERATION AND USAGE

It is best to switch on the devices in the following order: sound sources, mixing unit, equalisers, active filters and processors, and finally power amplifiers. The devices should be switched off in the reverse sequence. By following this order, the transients produced from to switching the devices on or off will not affect those further on in the chain and will be inaudible.

The CA200Z is switched on by connecting the unit to the mains using an IEC cable (MAINS INPUT on the rear panel) and the ON/OFF switch on the rear panel. The front panel **ON/STBY** LED will light up in green if the unit is in operating mode (ON), in steady orange if it is in rest or power save mode (STANDBY) and in blinking green and orange if the unit has the AUTO STANDBY function enabled and has entered this mode due to a lack of audio input signals.

When it is switched on and in operating mode (ON), the unit will be in the default configuration or ready for MASTER volume adjustment (output volume) and zone and audio source selection. In STEREO, MONO and BRIDGE modes, the MASTER volume is the same for the unit's two A and B outputs. In ZONES mode, the LCD screen displays the selected zone in the top left corner (**ZA** or **ZB**). To change the selected zone, press the front panel's rotary encoder knob briefly (each key press changes from ZA to ZB, or from ZB to ZA, etc.). After the zone is selected, turning the front encoder knob will change the MASTER output volume of that zone, with the change displayed on a volume bar on the LCD screen.

When a zone is selected and the volume adjusted using the infrared remote control, the LCD screen's visual indicators will be exactly the same as when they are changed and adjusted with the rotary encoder knob on the front panel.

In default mode it is also possible to activate or deactivate audio sources by briefly pressing the LINE1, LINE2, LINE3, LINE4, MIC1 or MIC2 front panel keys (or with the infrared remote control). A brief press of one of the LINE or MIC keys activates/deactivates said audio source in the previously-selected zone. Only one (or none) of the 4 LINE sources can be active in each output zone. It is possible, however, to activate one or even both microphones (or none) in each output zone.

See section for more information on the ADVANCED adjustment mode for the LINE and MIC inputs, accessed by pressing and holding down their respective keys on the front panel.

7.2. Special setup mode

The CA200Z's special **SETUP** mode can be accessed by pressing and holding the front rotary encoder knob. This mode is for adjusting the unit's operating mode (STEREO, MONO, BRIDGE or ZONES), setting the LCD screen contrast, recovering presets (configuration memories), etc.:

SETUP MODE

To enter SETUP MODE press and hold the front knob for more than 2.5 seconds
Front knob **SP**: **Short Press** (press the front panel knob briefly, less than 0.5 seconds)
Front knob **LP**: **Long Press** (press & hold the front panel knob for more than 2.5 seconds)

DEFAULT MODE (MASTER volume control and ZONE selection)

SWITCH ZA / ZB
(only for ZONES mode)

SP to select ZA or ZB

MASTER VOLUME / ZONE SELECT

Level shown in LCD graphbar

Rotate knob to adjust main output volume

OUTPUT LEVEL
Level: 0 to 64 (64 steps)

SETUP MODE

LP to enter the SETUP mode

LOAD PRESET 1 ... 5

LP to enter the PRESET recovery mode

PRESET number shown in LCD

Rotate knob to select PRESET number

LOAD PRESET
1, 2, 3, 4 or 5

SP to load PRESET and get back

Rotate knob to browse options

OUTPUT MODE

LP to enter the OUTPUT mode selection

Mode shown in LCD

Rotate knob to select a mode

OUTPUT MODE
STEREO
MONO
BRIDGE
ZONES

SP to get back

Rotate knob to browse options

LCD MODE

LP to enter the LCD working MODE

Mode shown in LCD

Rotate knob to select a mode

LCD MODE
ON
DIMMED
OFF

SP to get back

Rotate knob to browse options

Rotate knob to browse options

LCD CONTRAST

LP to enter the LCD CONTRAST adjust mode

Contrast level shown in LCD

Rotate knob to adjust level

LCD CONTRAST
Level: 0 to 100

SP to get back

Rotate knob to browse options

VERSION INFO vX.Y

Firmware version shown in LCD

Rotate knob to browse options

ADVANCED MODE
KEY CODE REQUIRED

MIC1 + MIC2 + LP

Press and hold MIC1 + MIC2 + front panel knob to enter the MIC SETUP ADVANCED MODE

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Notes:

- The LCD mode adjustment makes it possible to leave the screen on whenever the CA200Z is in ON mode, or for it to be DIMMED or OFF after about 20 seconds of inactivity on the user controls.
- In setup mode, the options of each parameter are displayed intermittently on the LCD screen
- To access the ADVANCED SETUP mode, press and hold the special key combination **MIC1 + MIC2 + front rotary encoder knob**:

ADVANCED SETUP mode

Front knob **SP**: **Short Press** (press the front panel knob briefly, less than 0.5 seconds)
Front knob **LP**: **Long Press** (press & hold the front panel knob for more than 2.5 seconds)

SETUP MODE

ADVANCED MODE
KEY CODE REQUIRED

ADVANCED SETUP MODE

MIC1 + MIC2 + LP — Press and hold MIC1 + MIC2 + front panel knob to enter the ADVANCED SETUP MODE

SP

SAVE PRESET 1 … 5 — LP to enter the PRESET SAVE mode — PRESET number shown in LCD — Rotate knob to select PRESET number — SAVE PRESET 1, 2, 3, 4 or 5 — SP to SAVE and get back

Rotate knob to browse options

AUTOLOAD PRESET 1 (at every power ON) — LP to enter the AUTOLOAD PRESET 1 setup — Status shown in LCD — Rotate knob to select an option — AUTOLOAD PR 1 ON / OFF — SP to get back

Rotate knob to browse options

REMOTE1 — LP to enter the REMOTE1 control port setup mode — Mode shown in LCD — Rotate knob to adjust REMOTE1 control port working mode — REMOTE1 VOL + INPUTS VOL + PRESETS OFF — SP to get back

Rotate knob to browse options

REMOTE2 — LP to enter the REMOTE2 control port setup mode — Mode shown in LCD — Rotate knob to adjust REMOTE2 control port working mode — REMOTE2 VOL + INPUTS VOL + PRESETS OFF — SP to get back

Rotate knob to browse options

IR REMOTE — LP to enter the Infrared remote control setup — Mode shown in LCD — Rotate knob to enable or disable the IR REMOTE control — IR REMOTE ON / OFF — SP to get back

Notes:

1. The special adjustment mode can be exited at any time (returning to the default mode) by briefly pressing any front panel key or not touching the controls for 20 seconds.

2. AUTOLOAD PRESET 1: when this function is active (ON) the CA200Z will recover preset no. 1 every time it starts up (using the ON/OFF switch on the rear panel or the power supply).

3. REMOTE1/REMOTE2:

   o When OFF mode is selected, the REMOTE port in question is disabled along with its associated MUTE function, which is triggered by closing the external contact connected to the MUTE port on the rear panel

   o When the VOL + INPUTS mode for a remote port is selected, it can manage the remote volume in its associated zone (using a WPmVOL-type panel) or the remote volume and the active LINE source selection in its associated zone (using a WPmVOL-SR-type panel). The options on the panel are OFF, LINE1, LINE2, LINE3, and LINE4, corresponding to the 5 physical positions of the dial on the remote panel

   o When the VOL + PRESETS mode for a remote port is selected, it will be able to manage the remote volume in its associated zone (using a WPmVOL-type panel) or the remote volume and the CA200Z's active preset selection, from 1 to 5 (using a WPmVOL-SR-type panel)

   o As only one of the two REMOTE ports can be configured in VOL + PRESETS mode, the other will not display this option in the SETUP menu

   See section 6.5 Remote control options for more details on remote management from the REMOTE ports based on the operating mode selected on the CA200Z (STEREO, BRIDGE, MONO or ZONES)

4. When switching on the unit or recovering a given preset with any of the available methods (starting up the equipment with the AUTOLOAD PRESET 1 option activated, using the front panel, infrared remote control, RS-232 communication port, etc.), the physical position of the dial on the wall panels connected to the REMOTE ports (if any) will be bypassed if the CA200Z's start up or new presets have source selection or presets adjustments that differ from that physical position. As soon as the wall panel dial is used again, the panels will synchronise with the CA200Z unit, with the new selection prevailing

7.3. LINE 1 to LINE4, MIC1 and MIC2 front panel keys

A short press of one of the LINE or MIC keys activates/deactivates said audio source in the previously-selected zone (see section 7.1 for selecting zones in ZONES mode). Only one (or none) of the 4 LINE sources can be active in each output zone. It is possible, however, to activate one or even both microphones (or none) in each output zone.

Press and hold one of the **LINE** keys to access its detailed adjustments (VOL, BASS, TREBLE). The complete process for entering and operating in this special adjustment mode, as well as the available adjustment options, are shown in the graphic on the next page.
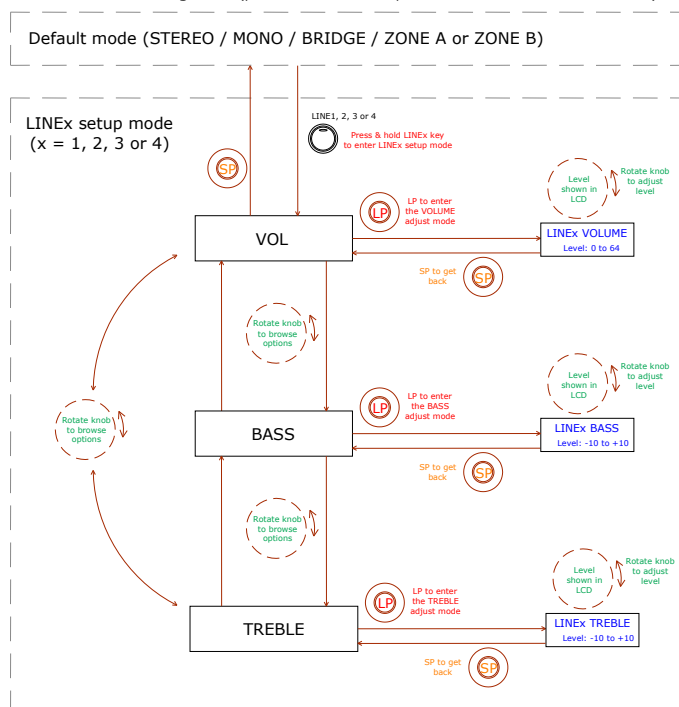
Note: It is possible to exit the special adjustment mode (returning to the default mode) at any time by briefly pressing any front panel key or waiting 20 seconds without working the controls.

Note: In ZONES mode, the detailed **LINE** input adjustments are made independently for the selected zone, A or B: a single LINE audio source can be adjusted with different volume and tone controls for zones A or B. In STEREO, MONO and BRIDGE (single zone) modes, the detailed adjustments are shared, given that there are no zones for independently directing and adjusting the audio sources. During detailed adjustments of a LINE input, the affected zone is displayed in the top left corner of the LCD screen (ZA or ZB).

Front panel LINE sources setup

To enter the LINE SETUP MODE, first select zone A or B with a tap of the front knob or the IR remote (only when using the ZONES mode), then press LINE1 or LINE2 or LINE3 or LINE 4 key and hold it for more than 2.5 seconds

Front knob **SP: Short Press** (press the front panel knob briefly, less than 0.5 seconds)
Front knob **LP: Long Press** (press & hold the front panel knob for more than 2.5 seconds)

Default mode (STEREO / MONO / BRIDGE / ZONE A or ZONE B)

LINEx setup mode
(x = 1, 2, 3 or 4)

LINE1, 2, 3 or 4
Press & hold LINEx key
to enter LINEx setup mode

SP

VOL

LP to enter
the VOLUME
adjust mode

Level
shown in
LCD

Rotate knob
to adjust
level

LINEx VOLUME
Level: 0 to 64

SP to get
back

Rotate knob
to browse
options

Rotate knob
to browse
options

BASS

LP to enter
the BASS
adjust mode

Level
shown in
LCD

Rotate knob
to adjust
level

LINEx BASS
Level: -10 to +10

SP to get
back

Rotate knob
to browse
options

TREBLE

LP to enter
the TREBLE
adjust mode

Level
shown in
LCD

Rotate knob
to adjust
level

LINEx TREBLE
Level: -10 to +10

SP to get
back

Pressing and holding down one of the **MIC** keys accesses its detailed adjustments. The complete process for entering and operating in this special adjustment mode, as well as the available adjustment options, are shown in the following graphic:

Note: It is possible to exit the special adjustment mode (returning to the default mode) at any time by briefly pressing any front panel key or waiting 20 seconds without working the controls.

Note: In ZONES mode, the detailed **VOL** adjustment of the **MIC** inputs are made independently for the selected zone, A or B, and a single MIC audio source can be adjusted with different volumes for zones A and B (but with the same BASS/TREBLE adjustments for both destination zones). In STEREO, MONO and BRIDGE (single zone) modes, the detailed adjustments are shared, given that there are no zones for independently directing and adjusting the audio sources.

Front panel MIC sources setup

To enter the MIC SETUP MODE, first select zone A or B with a tap of the front knob or the IR remote (only when using the ZONES mode), then press MIC1 or MIC2 key and hold it for more than 2.5 seconds

Front knob **SP** : **Short Press** (press the front panel knob briefly, less than 0.5 seconds)
Front knob **LP** : **Long Press** (press & hold the front panel knob for more than 2.5 seconds)
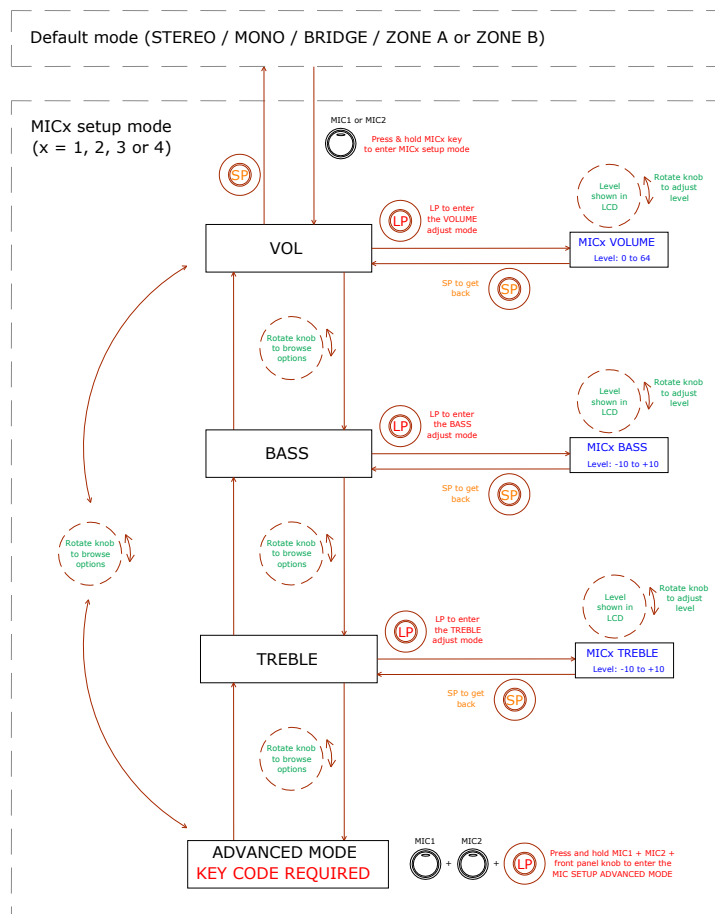
The following graphic shows the ADVANCED adjusting procedure for the MIC1 and MIC2 inputs (a special key combination is required for access):

Front panel MIC sources ADVANCED setup

Front knob **SP** : **Short Press** (press the front panel knob briefly, less than 0.5 seconds)
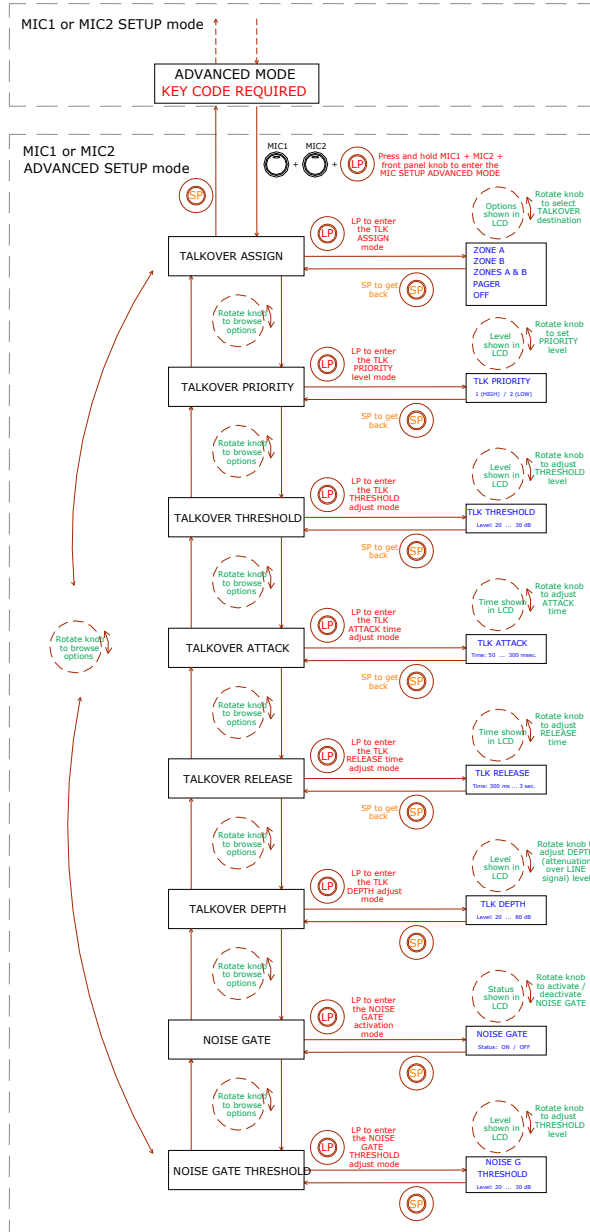Front knob **LP** : **Long Press** (press & hold the front panel knob for more than 2.5 seconds)

MIC1 or MIC2 SETUP mode

ADVANCED MODE
KEY CODE REQUIRED

MIC1 or MIC2
ADVANCED SETUP mode

MIC1 + MIC2 + LP : Press and hold MIC1 + MIC2 + front panel knob to enter the MIC SETUP ADVANCED MODE

SP

TALKOVER ASSIGN — LP to enter the TLK ASSIGN mode — Options shown in LCD — Rotate knob to select TALKOVER destination
ZONE A
ZONE B
ZONES A & B
PAGER
OFF
SP to get back

TALKOVER PRIORITY — LP to enter the TLK PRIORITY level mode — Level shown in LCD — Rotate knob to set PRIORITY level
TLK PRIORITY
1 (HIGH) / 2 (LOW)
SP to get back

TALKOVER THRESHOLD — LP to enter the TLK THRESHOLD adjust mode — Level shown in LCD — Rotate knob to adjust THRESHOLD level
TLK THRESHOLD
Level: 20 ... 30 dB
SP to get back

TALKOVER ATTACK — LP to enter the TLK ATTACK time adjust mode — Time shown in LCD — Rotate knob to adjust ATTACK time
TLK ATTACK
Time: 50 ... 300 msec.
SP to get back

TALKOVER RELEASE — LP to enter the TLK RELEASE time adjust mode — Time shown in LCD — Rotate knob to adjust RELEASE time
TLK RELEASE
Time: 300 ms ... 3 sec.
SP to get back

TALKOVER DEPTH — LP to enter the TLK DEPTH adjust mode — Level shown in LCD — Rotate knob to adjust DEPTH (attenuation over LINE signal) level
TLK DEPTH
Level: 20 ... 80 dB
SP

NOISE GATE — LP to enter the NOISE GATE activation mode — Status shown in LCD — Rotate knob to activate / deactivate NOISE GATE
NOISE GATE
Status: ON / OFF
SP

NOISE GATE THRESHOLD — LP to enter the NOISE GATE THRESHOLD adjust mode — Level shown in LCD — Rotate knob to adjust THRESHOLD level
NOISE G THRESHOLD
Level: 20 ... 30 dB
SP

Rotate knob to browse options

Notes regarding the ADVANCED adjustments for MIC1 and MIC2 inputs:

- Contrary to the detailed LINE or MIC input adjustments, the **ADVANCED** MIC input adjustments (TALKOVER and NOISE GATE functions) are unique and individualised for each MIC input (MIC1, MIC2), but shared for the possible destination zones, A and B, when working in ZONES mode. For example: a 20 dB adjustment of the Talkover function threshold for the MIC1 input will be considered the activation threshold of that function, regardless of whether the MIC1 Talkover function is assigned to zone A, zone B or both. For this reason, instead of indicating the affected zone as is displayed in other types of adjustments (ZA or ZB), the top left corner of the LCD screen will display "- -" during the adjustment process of said advanced parameters.

- **TALKOVER ASSIGN**: When the Talkover function is assigned to an output from a MIC input, the microphone signal will cause an attenuation of the active LINE signal in that output zone (and also of the other microphone, unless that microphone has an active Talkover function with higher priority) when the microphone exceeds the Talkover or detection threshold. The possible assignments are:

  - ZONE A

  - ZONE B

  - ZONES A-B (both zones)

  - PAGER: real-time voice message function with zone selection, or paging (zone A, B or both). Only available when using an MPAGE4 desktop console connected to the PAGER port on the CA200Z's rear panel. The console uses the MIC1 input for managing the PAGER function and its internal jumpers must be in the **10 V / ALOG** positions (see the MPAGE4 console manual for more details). In the CA200Z's ZONES mode, the operative keys on the MPAGE4 unit will be the zone 1 and 2 (A and B on the CA200Z) selection keys, whereas in STEREO, MONO and BRIDGE modes, only the zone 1 selection key will be operative.

    Note: In PAGER mode, the MIC1 input is silenced unless a call is being made from the MPAGE4 station (= zones selection + pressing the MPAGE4's PAGE button). Adjusting the output level of the MPAGE4 unit with its internal potentiometers is also recommended to correctly couple the unit to the CA200Z (see the MPAGE4 console manual for more details)

  - OFF: MIC input's TALKOVER function disabled

- **TALKOVER PRIORITY:** The Talkover function of the MIC1 and MIC2 inputs can have the same or different priority levels. The effect of this hierarchy of priorities is as follows:

    o **MIC1 and MIC2 with the same Talkover priority (both 2 (LOW) or both 1 (HIGH)):** the first of the two microphones whose Talkover actuates on a destination zone (its signal exceeds the detection threshold) disables the Talkover of the other microphone in the same zone until the Talkover of the first microphone stops actuating (its signal drops below the activation threshold), at which time the Talkover function can be activated again by the first microphone to exceed the threshold

    o **MIC1 and MIC2 with different priorities:** When the microphone with the higher priority, whose Talkover is assigned to a destination zone, is activated (its signal exceeds the detection threshold), it disables the Talkover of the other microphone in the same zone. If the microphone with a lower priority has its Talkover function activated at a given moment, the activation of the microphone with the higher priority would also interrupt it until the higher priority Talkover ceases actuating (after its signal drops below the activation threshold again)

- **TALKOVER THRESHOLD:** trigger threshold of the Talkover function. The microphone signal in question activates its Talkover function when said threshold is exceeded. This trigger level depends on the sensibility level of the microphone (rear panel), but is independent of the VOL adjustment of the MIC inputs ADVANCED adjustments menu

- **TALKOVER ATTACK:** the time the Talkover function takes to actuate, from the moment the microphone signal exceeds the trigger threshold

- **TALKOVER RELEASE:** The time the Talkover function takes to cease actuating, from the moment the microphone signal drops below the trigger threshold again

- **TALKOVER DEPTH:** The attenuation applied by the Talkover function on the active line signal when triggered

- **NOISE GATE**: noise gate function for the microphone input. When this function is active, the MIC input is muted whilst there is no signal above the NOISE GATE function activation threshold, such that the unit rejects the background noise captured by the microphone connected to it

- **NOISE GATE THRESHOLD:** NOISE GATE function trigger threshold

The CA200Z's **AUTO STANDBY** (rest or power saving mode) enables leaving the device connected to the mains indefinitely such that the rest mode can be automatically deactivated when there is an input signal and activated when there is none.

To enable **AUTO STANDBY** mode, the mode's **ON** option must be activated in special setup mode. See section 7.2 Special setup mode for more details.

One of the following two situations may occur when the **AUTO STANDBY** mode is enabled:

a) There is NO audio signal in the inputs. Result: the amplifier immediately goes into AUTO STANDBY mode
b) If there is an audio signal in the inputs. Result: the amplifier stays active

When it is enabled and there is no audio signal (or a very weak one below the activation threshold) in any of the unit's inputs for two minutes or more, the CA200Z automatically goes into AUTO STANDBY mode, and the **ON/STBY** LED lights up in green with orange flashes, and the LED indicators for the inputs and LCD screen switch off.

If the front panel controls or infrared remote control are actuated while the CA200Z is in AUTO STANDBY mode, the LCD screen will light up for a short period (even when the **LCD MODE** has been adjusted in the OFF or DIMMED options), and will switch off or dim again if the conditions to keep it from exiting AUTO STANDBY mode are still met.

If, to the contrary, the unit is manually forced into STANDBY mode using the ON/STBY key on the infrared remote control, the unit will not respond to keys being pressed on the front panel, nor will the LCD screen light up, until it is woken up by again pressing the ON/STBY key or briefly pressing the front panel rotary encoder knob; the unit will then switch to ON mode.

- **SP**: The signal presence or **SP** LED indicator shows whether there is a signal on any of the amplifier's inputs. This lights up when the input level reaches the established detection threshold.

- **CLIP**: The saturation or **CLIP** LED indicator lights up when the signal delivered to the speakers is close to the amplifier's clipping or saturation level. Input signals should be adjusted to ensure the **CLIP** (saturation or cut off) indicators never stay lit, but that at most they light up to the rhythm of the lowest bass frequencies. Otherwise the amplified signal will be distorted with low-quality and intelligible sound.

  Note: The CA200Z has an "ANTICLIP" circuit that is always active, constantly analysing the harmonic distortion (produced by excessive trimming of the signal to the amplifier output), automatically reducing the input level and actuating only when the distortion limit is exceeded

- **ON/STBY**:
  - it lights up green when the equipment is in normal operation mode. In this mode, it blinks when it receives commands from the infrared remote control
  - it lights up orange when in standby mode, a mode accessed by pressing the ON/STBY key on the infrared remote control.
  - it lights up in green with orange flashes when the unit has automatically entered AUTO STANDBY mode

7.6. Lock mode

To enter or exit the CA200Z's lock mode, the combination of LINE4 + MIC1 + the front rotary encoder knob must be pressed and held for several moments.

To protect the device from tampering, it cannot be operated with the front panel keys while in lock mode. In this mode, the LCD screen will display PANEL LOCKED every time there is an attempt to operate with the keys.

When exiting the mode with the same key combination, the LCD panel will display PANEL UNLOCKED for a short period of time.

Note: Once the lock mode is activated it will remain so even when the unit is switched off and on again. It will stay locked until the three-key combination described above is pressed and held.

To restore the CA200Z to factory settings, follow this procedure:

1. Press and hold the front rotary encoder knob with the unit switched off

2. Keeping it pressed, switch on the unit with the ON/OFF switch on the rear panel. The LCD panel will show a special message indicating that the CA200Z is ready to be switched off in order to recover the default adjustment mode when it is switched on again

3. Wait a few seconds and then switch the CA200Z off again

4. The next time it is switched on, the factory settings will be in the memory

Note: for instructions on how to update the unit's firmware, see the product web page at www.ecler.com, where you will find the update software utility and instructions on how to proceed.

8. CLEANING

The CA200Z must not be cleaned with solvents or abrasive substances which may damage the prints. Clean using a cloth moistened in water and a neutral liquid detergent, then dry with a clean cloth. Under no circumstances allow water to enter any of the orifices in the equipment.

9. DIAGRAMS and LIST OF FUNCTIONS

9.1. Device Front Panel
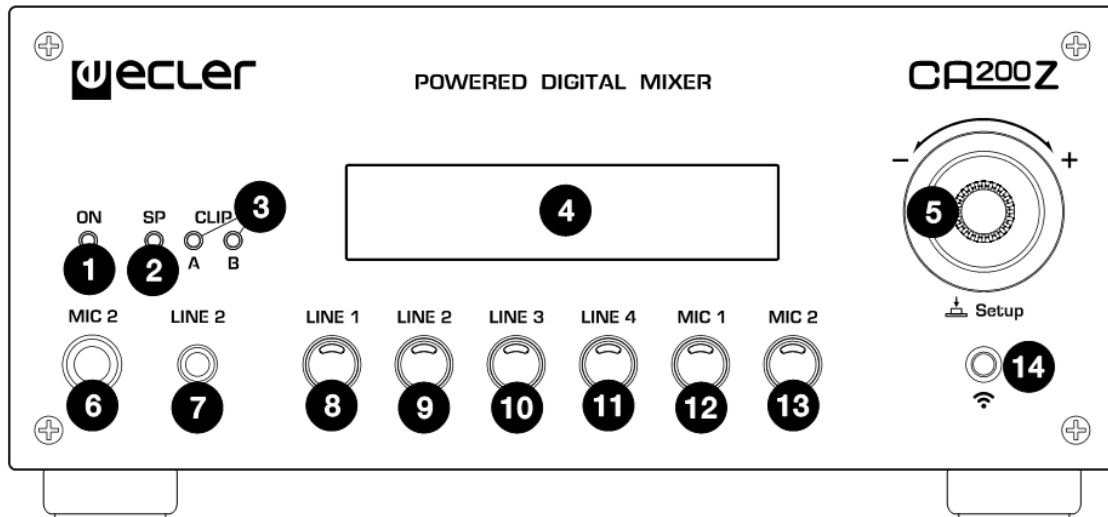
1	Operation/standby indicator light, ON/STBY	**7**	Front line input, LINE 2
2	Input signal presence indicator light, SP	**8**	Line input selector, LINE 1
3	Zone A and Zone B saturation or clipping indicator lights, CLIP	**9**	Line input selector, LINE 2
		10	Line input selector, LINE 3
		11	Line input selector, LINE 4
4	Front panel LCD display	**12**	Microphone input selector, MIC 1
5	Rotary encoder knob	**13**	Microphone input selector, MIC 2
6	Front microphone input, MIC 2	**14**	Remote control receiver, REMOTE, REMOTE
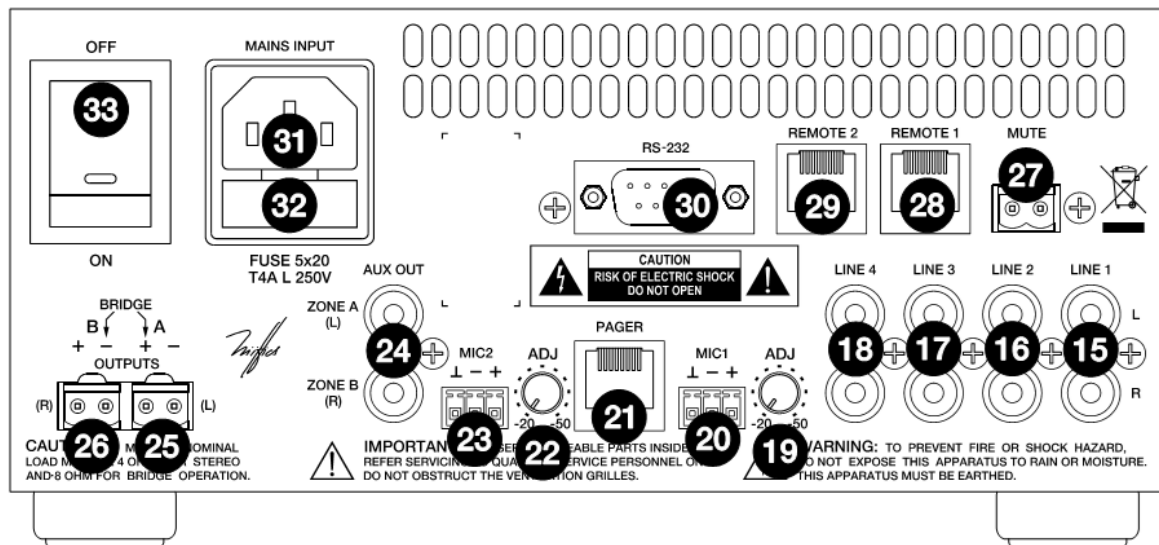
15 RCA line input, LINE 1		**24** Auxiliary output, AUX OUT	
16 RCA line input, LINE 2		**25** Zone A amplified output, OUT A (L)	
17 RCA line input, LINE 3		**26** Zone B amplified output, OUT B (R)	
18 RCA line input, LINE 4		**27** Remote volume silencing control, MUTE	
19 Microphone input sensitivity setting, MIC 1 and PAGER		**28** RJ-45 connector, REMOTE 1	
20 Microphone input, MIC 1		**29** RJ-45 connector, REMOTE 2	
21 RJ-45 connector, PAGER		**30** Remote control, RS-232 port	
22 Microphone input sensitivity setting, MIC 2		**31** Mains socket	
23 Microphone input, MIC 2		**32** Fuse holder	
		33 Power switch, ON/OFF	

34 ON/STBY key

35 Volume off key, MUTE

36 Signal input selection keys, LINE 1, 2, 3, and 4

37 LINE input volume adjustment keys

38 Setup memory recovery keys, PRESET

39 Microphone input selection key, MIC 1

40 MIC 1 input volume adjustment keys
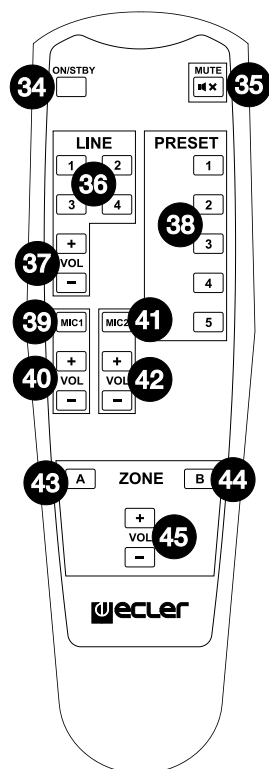
41 Microphone input selection key, MIC 2

42 MIC 2 input volume adjustment keys

43 Zone selection key, ZONE A

44 Zone selection key, ZONE B

45 Keys for adjusting selected zone volume

10. BLOCK DIAGRAM
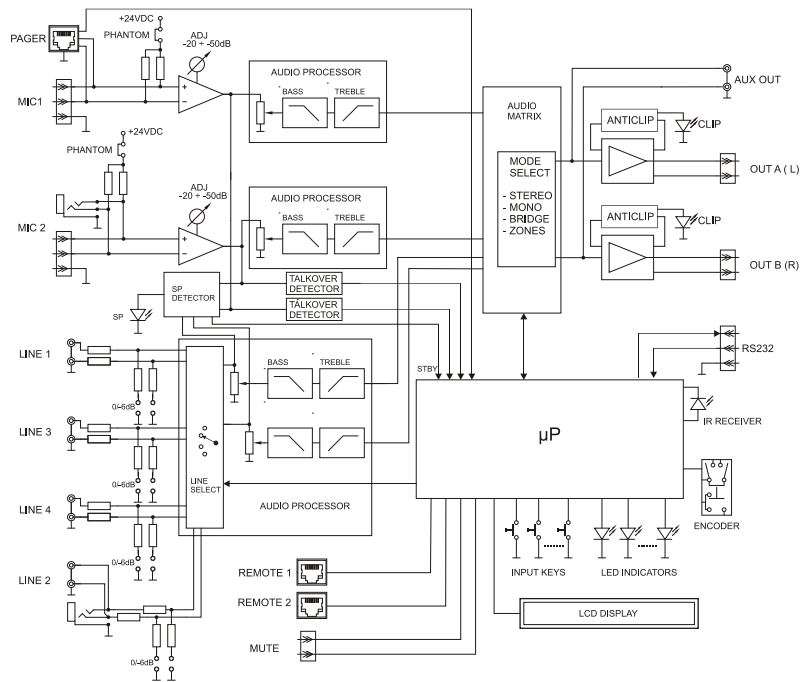
11. CONFIGURATION DIAGRAM

JUMPERS FACTORY ADJUST

Line Gain 1, 2, 3 & 4   -6dB
Phantom   OFF
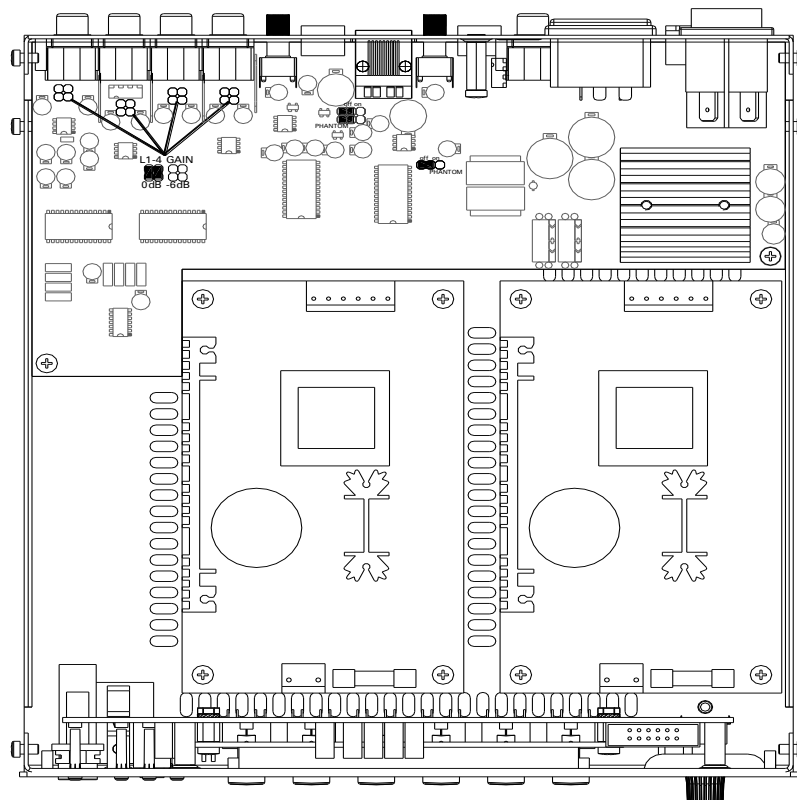
12. TECHNICAL CHARACTERISTICS

CA200Z

Power (each output)	
	70W@4Ω 1% THD
	38W@8Ω 1% THD
BRIDGE	97W@8Ω 1% THD
Damping Factor 1kHz @ 8Ω	>140
Frequency response	15Hz - 40kHz (-3dB)
THD+Noise @ 1kHz Full Pwr. SPKR OUT	<0.08%
THD+Noise AUX OUT	<0.03%
Channel crosstalk @ 1kHz	>60dB
Inputs Sensitivity nom/Impedance:	
LINE 1-4	-6dBV (0dBV*)/>10kΩ
MIC 1-2 (BAL)	-20 to -50dBV/>1kΩ
CMRR	
MIC 1-2 (BAL)	>65dB @ 1kHz
Outputs Level/Minimum Load	
AUX OUT	-6dBV/10kΩ
Tone control (LINE & MIC)	
BASS	100Hz ±10dB
TREBLE	6KHz ±10dB
Signal Noise Ratio	
LINE	>85dB
MIC (BAL)	>62dB
Talkover	
TIME	2 Sec.**
DEPTH	-30dB**
Microphone Noise Gate	20-25-30dB below max.**
Phantom voltage	+24VDC/8mA max.*
RS-232 DB-9	
BAUD RATE	9600 (fixed)
DATA	8 bits
PARITY	NONE
STOP BITS	1
FLOW CTRL	NONE
Analog Remote 1-2 (0-10V. based)	Volume & Input selection
Infrared Remote	Preset, Source & Volume
Mains	90-264VAC 47-440Hz
Power consumption	
pink noise, 1/8 power @ 4ohm	62VA/30W
pink noise, 1/3 power @ 4ohm	78VA/61W
max. @ 4ohm	240VA/160W
Stand By (time 2 minutes)	<8W
General	
Dimensions WxDxH	210x230x88mm
Net Weight	2340g
Gross Weight	3550g

*Internally selectable: factory settings -6dB from Serial Number 23406XXXX   **Software selectable

13. CA-NET RS-232 Remote Control Protocol

Updated for CA40, CA120, CA120HZ, CA200z, DAM514 and DAM614

The built-in RS-232 port in the rear panel of the CA and DAM series devices allows for an external device communication via a serial connection. This kind of connection uses a syntax which is very similar to the one used in the Ecler TP-NET protocol: it lets a client device get from and/or set the values of several parameters of a CA / DAM device (for instance, the CA40, CA120, CA120HZ or CA200z digital amplifiers or the DAM514 / DAM614 audio digital mixers), like volumes, mutes, equalisation tones, etc.

The RS-232 serial communication must fulfil the following specifications:

Baud rate:		**9600** **(fixed, no auto-negotiation)**
Data bits:	**8**	
Parity:		**None**
Stop bits:	**1**	
Flow control:		**None**

It's not allowed to have more than one simultaneous access from several clients to the same CA / DAM device using the RS232 connection.

The protocol is simple and direct, syntax-friendly, making it easy to read, write and modify the generated code. It is based on messages with no begin delimiter: each message is self-delimited by the RS232 packet size, which is defined with a maximum of **80 ASCII characters**, and always including the character **LF** (0x0A) at the end of each message. All the messages must be written in **CAPITAL LETTERS**.

To let some control systems (like EXTRON®, CRESTRON®, AMX®, RTI®, VITY®, MEDIALON®, etc.) process the messages more easily, the CA / DAM device adds the character **LF** (0x0A) at the end of each message it sends. This way the client of the CA / DAM device can buffer the received messages to process them, when required. The CA / DAM device can also handle several messages received in a single RS232 packet by using the **LF** delimiter.

The available messages are built with one or more fields separated with blank spaces (= blank space):

      <TYPE> **[PARAM1]** **[PARAM2]** **[PARAM3]** **[PARAM4][LF]**

The first field (**TYPE**) defines the **message type** and then, the required parameters for it (each kind of message requires a given number of parameters). The field **TYPE** can have these values:

- **GET**

- **SET**
- **DATA**
- **ERROR**

At the end of this document you'll find a table including all the available messages and their parameters for each model of CA-NET compatible device.

The **GET & SET** messages can be sent from the client (control system) to the CA / DAM device. The **DATA & ERROR** messages can just be sent from the CA / DAM device to the client.

The **SET** messages coming from a client device don't have an automatic acknowledgement with a **DATA** message sent from the CA / DAM device after it has processed the **SET** command. The client must update the values itself, sending the needed **GET** message to ask for a parameter's value when it requires confirmation from the device. On the other hand, when a local control in the CA / DAM unit occurs (for instance, using the front panel controls or an infrared remote control), the CA / DAM device will automatically send the associated **DATA** command via its RS-232 interface, to keep synchronisation with the client device.

CA40, CA120 (including CA120HZ) and CA200z NOTES:

- A couple of special parameters for the **GET** and **SET** commands would require a detailed explanation:

  1. **AUTOLOAD_PRESET1**: its value (ON/OFF) defines whether preset number 1 must be recalled or not each time the CA device is powered ON, defining this way the default working mode at startup

  2. **PANEL_LOCKED**: its value (ON/OFF) defines whether the front panel controls (the rotary encoder in the case of the CA40/CA120, and the encoder and the function keys in the case of the CA200z) is enabled (PANEL_LOCKED=OFF) or disabled (PANEL_LOCKED=ON) for local management of the device. (see the CA40/120 or CA200z user manual for further details)

- The numerical values are always integer numbers without comma or dot symbols
- **<Input Name>** are text strings (without blank spaces) that identify an audio input of a CA device:
  - For the CA40, there are 5 possible Input Names:
    - LINE1
    - LINE2
    - MICRO
    - LINE1_AND_MICRO
    - LINE2_AND_MICRO

- For the CA120, there are 5 possible Input Names:
  - LINE1
  - LINE2
  - MICL3
  - LINE1_AND_MICL3
  - LINE2_AND_MICL3

- And 6 in the case of the CA200z:
  - LINE1
  - LINE2
  - LINE2
  - LINE4
  - MICRO1
  - MICRO2

- **<Preset Number>** is a numerical value that identifies one available Preset stored in the device's memory. It can be within the [1..5] range.

- **<Volume Level>** are numerical values in the [0…64] range that define values in a scale equivalent to [-inf…Maximum_Volume] in 1.25 dB steps.

- **<Tone Level>** are numerical values in the [-10…10] range that define values in a scale equivalent to [-10, -8, -6, -4, -2, 0, 2, 4, 6, 8, 10] dB. If the numerical value is not in this list, the unit will reply with an error message.

- **<Increment Value>** are numerical values in the [0…64] range that define a value in a scale equivalent to [Increment Value]x(1.25) dB, used to increase or decrease the current absolute value of a level.

- **<Threshold Level>** the allowed numerical values in this field are just 3 [20, 25, 30]. It defines a value in a scale equivalent to [20, 25, 30] dB below the nominal level value for a given audio input. If the numerical value is not in this list, the unit will reply with an error message.

- **<Depth Level>** the allowed numerical values in this field are just 4 [20, 30, 60, 80]. It defines a value in a scale equivalent to [20, 30, 60, 80] dB. If the numerical value is not in this list, the unit will reply with an error message.

- **<Attack Time Value>** the allowed numerical values in this field are just 4 [50, 100, 200, 300]. It defines a value in a scale equivalent to [50, 100, 200, 300] milliseconds. If the numerical value is not in this list, the unit will reply with an error message.

- **<Release Time Value>** the allowed numerical values in this field are just 5 [300, 500, 1000, 2000, 3000]. It defines a value in a scale equivalent to [300, 500, 1000, 2000, 3000] milliseconds. If the numerical value is not in this list, the unit will reply with an error message.

- **<Remote Select Value>** are text strings (without blank spaces) that identify the function of the analogue (0 – 10 VDC) remote control selector connected to a physical "REMOTE" port in the device.

- In the case of the CA40/CA120, there are just two possible string values for this parameter:
  - INPUTS
  - PRESETS

-
  - And three in the case of the CA200z:
    - OFF
    - INPUTS
    - PRESETS

- *In the CA40/CA120, a single REMOTE port admits the connection of a **WPmVOL-SR** unit, which has a volume control knob and a 5-position rotary switch, or selector. The selector can be used in any of these two modes:*
  - *INPUTS: to select the active audio source(s) (LINE1, LINE2, MICRO (MICL3 for the CA120), LINE1_AND_MICRO (LINE1_AND_MICL3 for the CA120) or LINE2_AND_MICRO (LINE2_AND_MICL3 for the CA120))*
  - *PRESETS: to recall any of the 5 presets in the memory of the unit, which store the full configuration of the unit, including volumes, EQ, etc.*
- *The factory default working mode of the selector is **INPUTS**, and it can just be modified to **PRESETS** by means of an RS-232 connection.*

-
- *In the CA200z there are two independent REMOTE ports, each one able to control one of the device's outputs when the CA200z has been configured in the ZONES A/B mode. Each selector can be used in any of these 3 modes:*
  - *INPUTS: to select the active audio LINE source (OFF, LINE1, LINE2, LINE3 or LINE4)*
  - *PRESETS: to recall any of the 5 presets in the memory of the unit, which store the full configuration of the unit, including volumes, EQ, etc. Just one out of these two remote ports can be configured to recall presets, not both at the same time*
  - *OFF: REMOTE port disabled.*

- **<Zone>** are text strings (without blank spaces) that identify a zone where the command will operate. In the CA200z there are just two possible values for this parameter:
  - ZA (output labeled as ZA or L)
  - ZB (output labeled as ZB or R)
- When the <Zone> parameter is not specified, the CA200z will understand the command will operate over ZA.
- **<Micro Name>** are text strings (without blank spaces) that identify the MIC inputs in the unit. In the CA200z there are just two possible values for this parameter:
  - MICRO1
  - MICRO2

- **<Output Mode>** are text strings (without blank spaces) that identify the amplifier's output working mode. In the CA200z there are just four possible values for this parameter:
  - STEREO
  - MONO
  - BRIDGE
  - ZONES
  - In the CA40 there are just three possible values for this parameter:
    - STEREO
    - MONO
    - BRIDGE
  - In the CA120 there are just two possible values for this parameter:
    - STEREO
    - MONO

- **<Zone Label>** is a text string that contains the customized name for a zone that the CA200z will show in its LCD display. The maximum length for this string is 17 characters, being ignored those exceeding this limit. Blank characters are not allowed. A valid example: MAIN_HALL

- **<Display Mode>** are text strings (without blank spaces) that identify the LCD display working mode. In the CA200z there are just three possible values for this parameter:
  - ON
  - DIMMED
  - OFF

- **<Contrast Level>** are numerical values in the [0…100] range that define the LCD display contrast level.

- **<Assign Value>** are text strings (without blank spaces) that identify the Talkover / Pager function assignment for a MIC input towards the device's outputs. In the CA200z there are just five possible values for this parameter:
  - OFF
  - ZA
  - ZB
  - ZA-B
  - PAGER

- **<Priority>** is a numerical value that defines the Talkover function priority of one MIC input in front of the other inputs in the unit. In the case of the CA200z just two values are valid [1, 2], being "1" the highest priority level and "2" the lower one.

- **<Error ID>** is a numerical value for an error code.

- **"<Error Description>"** is a text chain inside double quotation marks, containing an error description.

DAM514 / DAM614 NOTES:

- **<RemoteMode>** parameter

  Originally designed to connect WPmVOL-SR (or WPTOUCH) wall panels to the REMOTE ports in the DAM514 / DAM614: panels that include a volume control knb and a 5-position selector knob. The possible working modes (**REMOTE_MODE** command) of any of the 4 available remote ports (R1 to R4) in the unit are:

  - DISABLED
  - IN_VOL: volume control for one or several inputs (general input volume, affecting all the post processing)
  - ZONE_VOL: volume control for one or several zone outputs
  - IN_SEL: one input (source) selection for one or several output zones (with the 5 position selector)
  - IN_SEL_IN_LEVEL: one input (source) selection for one or several output zones (with the 5 position selector) + the control of the selected input's crosspoints level to the destination zones
  - IN_SEL_ZONE_VOL: one input (source) selection for one or several output zones (with the 5 position selector) + the control of the affected zones output volume
  - PRESET: a preset recovery, from P1 to P5 (with the 5 position selector)
  - PRESET_ZONE_VOL: a preset recovery, from P1 to P5 (with the 5 position selector) + volume control for one or several zone outputs
  - MATRIX_VOL:

- **PAGER** / **DUCKER** parameter for **TALKOVER_MODE** command:

  - INPUT 6 can be used with the Talkover feature in PAGER or DUCKER mode. PAGER mode requires an external paging station (MPAGE4) to select the destination zones and performing the paging (for **DAM614**)
  - INPUTs 3, 4 and 5 can be used with the Talkover feature just in DUCKER mode (for **DAM614**)
  - INPUT 5 can be used with the Talkover feature in PAGER or DUCKER mode. PAGER mode requires an external paging station (MPAGE4) to select the destination zones and performing the paging (for **DAM514**)
  - INPUT 4 can be used with the Talkover feature just in DUCKER mode (for **DAM514**)

CA40 AMPLIFIER

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
GET	ALL				Dumps current device status (with DATA messages)
	PRESET_NUMBER				Gets the current PRESET number
	OUTPUT_MODE				Gets the current amplifier OUTPUT MODE
	INPUT				Gets the current active INPUTs
	MUTE				Gets the current MUTE status
	MASTER_VOL				Gets the current MASTER VOLUME
	LINE1_VOL				Gets the current LINE1 VOLUME
	LINE2_VOL				Gets the current LINE2 VOLUME
	MICRO_VOL				Gets the current MICRO VOLUME
	LINE1_BASS				Gets the current LINE1 BASS LEVEL
	LINE2_BASS				Gets the current LINE2 BASS LEVEL
	MICRO_BASS				Gets the current MICRO BASS LEVEL
	LINE1_TREBLE				Gets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE				Gets the current LINE2 TREBLE LEVEL
	MICRO_TREBLE				Gets the current MICRO TREBLE LEVEL
	GATE				Gets the current NOISE GATE ON/OFF status
	GATE_THRESHOLD				Gets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER				Gets the current TALKOVER ON/OFF status
	TALKOVER_THRESHOLD				Gets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK				Gets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE				Gets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH				Gets the current TALKOVER DEPTH (attenuation)
	REMOTE				Gets the current REMOTE ON/OFF status
	REMOTE_SELECTOR				Gets de current REMOTE SELECTOR function
	AUTO_STANDBY				Gets the current AUTO STANDBY ON/OFF status
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED				Get the current PANEL_ LOCKED (front knob) status

	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
SET	LOAD_PRESET	<Preset Number>			Recalls and activates a PRESET
	SAVE_PRESET	<Preset Number>			Saves the current PRESET
	INPUT	<Input Name>			Sets the current active INPUT(s)
	MUTE	ON/OFF			Sets the current MUTE status
	MASTER_VOL	<Volume Level>			Sets the current MASTER VOLUME
	LINE1_VOL	<Volume Level>			Sets the current LINE1 VOLUME
	LINE2_VOL	<Volume Level>			Sets the current LINE2 VOLUME
	MICRO_VOL	<Volume Level>			Sets the current MICRO VOLUME
	LINE1_BASS	<Tone Level>			Sets the current LINE1 BASS LEVEL
	LINE2_BASS	<Tone Level>			Sets the current LINE2 BASS LEVEL
	MICRO_BASS	<Tone Level>			Sets the current MICRO BASS LEVEL
	LINE1_TREBLE	<Tone Level>			Sets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE	<Tone Level>			Sets the current LINE2 TREBLE LEVEL
	MICRO_TREBLE	<Tone Level>			Sets the current MICRO TREBLE LEVEL
	GATE_THRESHOLD	<Threshold Level>			Sets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER_THRESHOLD	<Threshold Level>			Sets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK	<Attack Time Value>			Sets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE	<Release Time Value>			Sets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH	<Depth Level>			Sets the current TALKOVER DEPTH (attenuation)
	MASTER_VOL_INC	<Increment Value>			Increments the current MASTER VOLUME
	MASTER_VOL_DEC	<Increment Value>			Decrements the current MASTER VOLUME
	REMOTE_SELECTOR	<Remote Selector Value>			Sets de current REMOTE SELECTOR function
	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED	ON/OFF			Sets the current PANEL_ LOCKED (front knob) status
DATA	PRESET_NUMBER	<Preset Number>			Shows the current PRESET
	PRESET_DONE				Shows that the last SET LOAD_PRESET n command has been processed: the preset is loaded and active

	OUTPUT_MODE	<OutputMode>			Shows the current amplifier OUTPUT MODE (MONO/STEREO/BRIDGE)
	INPUT	<Input Name>			Shows the current active INPUT(s)
	MUTE	ON/OFF			Shows the current MUTE status
	MASTER_VOL	<Volume Level>			Shows the current MASTER VOLUME
	LINE1_VOL	<Volume Level>			Shows the current LINE1 VOLUME
	LINE2_VOL	<Volume Level>			Shows the current LINE2 VOLUME
	MICRO_VOL	<Volume Level>			Shows the current MICRO VOLUME
	LINE1_BASS	<Tone Level>			Shows the current LINE1 BASS LEVEL
	LINE2_BASS	<Tone Level>			Shows the current LINE2 BASS LEVEL
	MICRO_BASS	<Tone Level>			Shows the current MICRO BASS LEVEL
	LINE1_TREBLE	<Tone Level>			Shows the current LINE1 TREBLE LEVEL
	LINE2_TREBLE	<Tone Level>			Shows the current LINE2 TREBLE LEVEL
	MICRO_TREBLE	<Tone Level>			Shows the current MICRO TREBLE LEVEL
	GATE	ON/OFF			Shows the current NOISE GATE ON/OFF status
	GATE_THRESHOLD	<Threshold Level>			Shows the current NOISE GATE THRESHOLD LEVEL
	TALKOVER	ON/OFF			Shows the current TALKOVER ON/OFF status
	TALKOVER_THRESHOLD	<Threshold Level>			Shows the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK	<Attack Time Value>			Shows the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE	<Release Time Value>			Shows the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH	<Depth Level>			Shows the current TALKOVER DEPTH (attenuation)
	REMOTE	ON/OFF			Shows the current REMOTE ON/OFF status
	REMOTE_SELECTOR	<Remote Selector Value>			Shows de current REMOTE SELECTOR function
	AUTO_STANDBY	ON/OFF			Shows the current STANSBY ON/OFF status
	AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED	ON/OFF			Shows the current PANEL_ LOCKED (front knob) status
	INFO_MODEL	<Device Model>			Shows the Device Model
	INFO_VERSION	<Firmware Version>			Shows the current Firmware Version
ERROR	<Error ID>	"<Error Description>"			Informs about an error

CA120 / CA120HZ AMPLIFIER

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
GET	ALL				Dumps current device status (with DATA messages)
	PRESET_NUMBER				Gets the current PRESET number
	OUTPUT_MODE				Gets the current amplifier OUTPUT MODE
	INPUT				Gets the current active INPUTs
	LIN3_SELECTOR				Gets the current LIN3 SELECTOR status
	MUTE				Gets the current MUTE status
	MASTER_VOL				Gets the current MASTER VOLUME
	LINE1_VOL				Gets the current LINE1 VOLUME
	LINE2_VOL				Gets the current LINE2 VOLUME
	MICL3_VOL				Gets the current MICL3VOLUME
	LINE1_BASS				Gets the current LINE1 BASS LEVEL
	LINE2_BASS				Gets the current LINE2 BASS LEVEL
	MICL3_BASS				Gets the current MICL3 BASS LEVEL
	LINE1_TREBLE				Gets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE				Gets the current LINE2 TREBLE LEVEL
	MICL3_TREBLE				Gets the current MICL3 TREBLE LEVEL
	GATE				Gets the current NOISE GATE ON/OFF status
	GATE_THRESHOLD				Gets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER				Gets the current TALKOVER ON/OFF status
	TALKOVER_THRESHOLD				Gets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK				Gets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE				Gets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH				Gets the current TALKOVER DEPTH (attenuation)
	REMOTE				Gets the current REMOTE ON/OFF status
	REMOTE_SELECTOR				Gets de current REMOTE SELECTOR function
	AUTO_STANDBY				Gets the current AUTO STANDBY ON/OFF status
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function

	PANEL_LOCKED				Get the current PANEL_ LOCKED (front knob) status
	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
SET	LOAD_PRESET	<Preset Number>			Recalls and activates a PRESET
	SAVE_PRESET	<Preset Number>			Saves the current PRESET
	INPUT	<Input Name>			Sets the current active INPUT(s)
	MUTE	ON/OFF			Sets the current MUTE status
	MASTER_VOL	<Volume Level>			Sets the current MASTER VOLUME
	LINE1_VOL	<Volume Level>			Sets the current LINE1 VOLUME
	LINE2_VOL	<Volume Level>			Sets the current LINE2 VOLUME
	MICL3_VOL	<Volume Level>			Sets the current MICL3 VOLUME
	LINE1_BASS	<Tone Level>			Sets the current LINE1 BASS LEVEL
	LINE2_BASS	<Tone Level>			Sets the current LINE2 BASS LEVEL
	MICL3_BASS	<Tone Level>			Sets the current MICL3 BASS LEVEL
	LINE1_TREBLE	<Tone Level>			Sets the current LINE1 TREBLE LEVEL
	LINE2_TREBLE	<Tone Level>			Sets the current LINE2 TREBLE LEVEL
	MICL3_TREBLE	<Tone Level>			Sets the current MICL3 TREBLE LEVEL
	GATE_THRESHOLD	<Threshold Level>			Sets the current NOISE GATE THRESHOLD LEVEL
	TALKOVER_THRESHOLD	<Threshold Level>			Sets the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK	<Attack Time Value>			Sets the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE	<Release Time Value>			Sets the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH	<Depth Level>			Sets the current TALKOVER DEPTH (attenuation)
	MASTER_VOL_INC	<Increment Value>			Increments the current MASTER VOLUME
	MASTER_VOL_DEC	<Increment Value>			Decrements the current MASTER VOLUME
	REMOTE_SELECTOR	<Remote Selector Value>			Sets de current REMOTE SELECTOR function
	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED	ON/OFF			Sets the current PANEL_ LOCKED (front knob) status
DATA	PRESET_NUMBER	<Preset Number>			Shows the current PRESET
	PRESET_DONE				Shows that the last SET LOAD_PRESET n command has been processed: the preset is loaded and active

	OUTPUT_MODE	<OutputMode>			Shows the current amplifier OUTPUT MODE (MONO/STEREO/BRIDGE)
	INPUT	<Input Name>			Shows the current active INPUT(s)
	LIN3_SELECTOR				Shows the current LIN3 SELECTOR status
	MUTE	ON/OFF			Shows the current MUTE status
	MASTER_VOL	<Volume Level>			Shows the current MASTER VOLUME
	LINE1_VOL	<Volume Level>			Shows the current LINE1 VOLUME
	LINE2_VOL	<Volume Level>			Shows the current LINE2 VOLUME
	MICL3_VOL	<Volume Level>			Shows the current MICL3 VOLUME
	LINE1_BASS	<Tone Level>			Shows the current LINE1 BASS LEVEL
	LINE2_BASS	<Tone Level>			Shows the current LINE2 BASS LEVEL
	MICL3_BASS	<Tone Level>			Shows the current MICL3 BASS LEVEL
	LINE1_TREBLE	<Tone Level>			Shows the current LINE1 TREBLE LEVEL
	LINE2_TREBLE	<Tone Level>			Shows the current LINE2 TREBLE LEVEL
	MICL3_TREBLE	<Tone Level>			Shows the current MICL3 TREBLE LEVEL
	GATE	ON/OFF			Shows the current NOISE GATE ON/OFF status
	GATE_THRESHOLD	<Threshold Level>			Shows the current NOISE GATE THRESHOLD LEVEL
	TALKOVER	ON/OFF			Shows the current TALKOVER ON/OFF status
	TALKOVER_THRESHOLD	<Threshold Level>			Shows the current TALKOVER THRESHOLD LEVEL
	TALKOVER_ATTACK	<Attack Time Value>			Shows the current TALKOVER ATTACK TIME
	TALKOVER_RELEASE	<Release Time Value>			Shows the current TALKOVER RELEASE TIME
	TALKOVER_DEPTH	<Depth Level>			Shows the current TALKOVER DEPTH (attenuation)
	REMOTE	ON/OFF			Shows the current REMOTE ON/OFF status
	REMOTE_SELECTOR	<Remote Selector Value>			Shows de current REMOTE SELECTOR function
	AUTO_STANDBY	ON/OFF			Shows the current STANSBY ON/OFF status
	AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED	ON/OFF			Shows the current PANEL_ LOCKED (front knob) status
	INFO_MODEL	<Device Model>			Shows the Device Model
	INFO_VERSION	<Firmware Version>			Shows the current Firmware Version
ERROR	<Error ID>	"<Error Description>"			Informs about an error

CA200z AMPLIFIER

TYPE	PARAM1		PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
GET	ALL					Dumps current device status (with DATA messages)
	POWER					Gets the current POWER status
	PRESET_NUMBER					Gets the current PRESET number
	OUTPUT_MODE					Gets the current amplifier OUTPUT MODE
	ZONE_LABEL		\<Zone Label\>	\<Zone\>		Gets the current LABEL (name) for the specified ZONE
	MUTE		\<Zone\>			Gets the current MUTE status for the specified ZONE
	MASTER_VOL		\<Zone\>			Gets the current MASTER VOLUME for the specified ZONE
	INPUT		\<Input Name\>	\<Zone\>		Gets the status (ON/OFF) for the specified INPUT at the specified ZONE
	VOL		\<Input Name\>	\<Zone\>		Gets the current VOLUME for the specified INPUT at the specified ZONE
	BASS		\<Input Name\>	\<Zone\>		Gets the current BASS LEVEL for the specified INPUT at the specified ZONE
	TREBLE		\<Input Name\>	\<Zone\>		Gets the current TREBLE LEVEL for the specified INPUT at the specified ZONE
	GATE		\<Micro Name\>			Gets the current NOISE GATE status (ON or OFF) for the specified MIC INPUT
	GATE_THRESHOLD		\<Micro Name\>			Gets the current NOISE GATE THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ASSIGN		\<Micro Name\>			Gets the current TALKOVER ASSIGN for the specified MIC INPUT
	TALKOVER_PRIORITY		\<Micro Name\>			Gets the current TALKOVER PRIORITY for the specified MIC INPUT
	TALKOVER_ THRESHOLD		\<Micro Name\>			Gets the current TALKOVER THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ATTACK		\<Micro Name\>			Gets the current TALKOVER ATTACK TIME for the specified MIC INPUT

TALKOVER_RELEASE		<Micro Name>			Gets the current TALKOVER RELEASE TIME for the specified MIC INPUT
TALKOVER_DEPTH		<Micro Name>			Gets the current TALKOVER DEPTH (attenuation) for the specified MIC INPUT
REMOTE_SELECTOR		<Zone>			Gets de current REMOTE SELECTOR function for the specified ZONE
IR_REMOTE					Gets the current IR REMOTE status (ON or OFF)
DISPLAY_MODE					Gets the current DISPLAY MODE
LCD_CONTRAST					Gets the current DISPLAY CONTRAST level
AUTO_STANDBY					Gets the current AUTO STANDBY function status (ON or OFF)
AUTOLOAD_PRESET1					Gets the current AUTOLOAD_PRESET1 at Startup function
PANEL_LOCKED					Gets the current PANEL_LOCKED (front panel controls) status
INFO_MODEL					Gets the Device model name
INFO_VERSION					Gets the current Firmware Version

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
SET	POWER	ON / STANDBY			Sets the current amplifier POWER status
	LOAD_PRESET	<Preset Number>			Recalls and activates a PRESET
	SAVE_PRESET	<Preset Number>			Saves the current PRESET
	OUTPUT_MODE	<OutputMode>			Sets the current amplifier OUTPUT MODE
	ZONE_LABEL	<Zone Label>	<Zone>		Sets the current LABEL (name) for the specified ZONE
	MUTE	ON/OFF	<Zone>		Sets the current MUTE status for the specified ZONE
	MASTER_VOL	<Volume Level>	<Zone>		Sets the current MASTER VOLUME for the specified ZONE
	INPUT	<Input Name>	ON/OFF	<Zone>	Sets the status (ON/OFF) for the specified INPUT at the specified ZONE
	VOL	<Input Name>	<Volume Level>	<Zone>	Sets the current VOLUME for the specified INPUT at the specified ZONE
	BASS	<Input Name>	<Tone Level>	<Zone>	Sets the current BASS LEVEL for the specified INPUT at the specified ZONE
	TREBLE	<Input Name>	<Tone Level>	<Zone>	Sets the current TREBLE LEVEL for the specified INPUT at the specified ZONE
	GATE	<Micro Name>	ON/OFF		Sets the current NOISE GATE status (ON or OFF) for the specified MIC INPUT
	GATE_THRESHOLD	<Micro Name>	<Threshold Level>		Sets the current NOISE GATE THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ASSIGN	<Micro Name>	<Assign Value>		Sets the current TALKOVER ASSIGN for the specified MIC INPUT
	TALKOVER_PRIORITY	<Micro Name>	<Priority number>		Sets the current TALKOVER PRIORITY for the specified MIC INPUT
	TALKOVER_THRESHOLD	<Micro Name>	<Threshold Level>		Sets the current TALKOVER THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ATTACK	<Micro Name>	<Attack Time Value>		Sets the current TALKOVER ATTACK TIME for the specified MIC INPUT
	TALKOVER_RELEASE	<Micro Name>	<Release Time Value>		Sets the current TALKOVER RELEASE TIME for the specified MIC INPUT
	TALKOVER_DEPTH	<Micro Name>	<Depth Level>		Sets the current TALKOVER DEPTH (attenuation) for the specified MIC INPUT
	MASTER_VOL_INC	<Increment Value>	<Zone>		Increments the current MASTER VOLUME for the specified ZONE
	MASTER_VOL_DEC	<Increment Value>	<Zone>		Decrements the current MASTER VOLUME for the specified ZONE

REMOTE_SELECTOR	<Rem Select Value>	<Zone>		Sets de current REMOTE SELECTOR function for the specified ZONE
IR_REMOTE	ON/OFF			Sets the current IR REMOTE status (ON or OFF)
DISPLAY_MODE	<Display Mode>			Sets the current DISPLAY MODE
LCD_CONTRAST	<Contrast Level>			Sets the current DISPLAY CONTRAST level
AUTO_STANDBY	ON/OFF			Sets the current AUTO STANDBY function status (ON or OFF)
AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
PANEL_LOCKED	ON/OFF			Sets the current PANEL_LOCKED (front panel controls) status

TYPE	PARAM1	PARAM2	PARAM3	PARAM 4	DESCRIPCIÓN
DATA	POWER	ON / STANDBY			Shows the current amplifier POWER status
	PRESET_NUMBER	<Preset Number>			Shows the current PRESET NUMBER
	PRESET_DONE				Shows that the last SET LOAD_PRESET n command has been processed: the preset is loaded and active
	OUTPUT_MODE	<Output Mode>			Shows the current amplifier OUTPUT MODE
	ZONE_LABEL	<Zone Label>	<Zone>		Show the current LABEL (name) for the specified ZONE
	MUTE	ON/OFF	<Zone>		Shows the current MUTE status for the specified ZONE
	MASTER_VOL	<Volume Level>	<Zone>		Shows the current MASTER VOLUME for the specified ZONE
	INPUT	<Input Name>	ON/OFF	<Zone>	Shows the status (ON/OFF) for the specified INPUT at the specified ZONE
	VOL	<Input Name>	<Volume Level>	<Zone>	Shows the current VOLUME for the specified INPUT at the specified ZONE
	BASS	<Input Name>	<Tone Level>	<Zone>	Shows the current BASS LEVEL for the specified INPUT at the specified ZONE
	TREBLE	<Input Name>	<Tone Level>	<Zone>	Shows the current TREBLE LEVEL for the specified INPUT at the specified ZONE
	GATE	<Micro Name>	ON/OFF		Shows the current NOISE GATE status (ON or OFF) for the specified MIC INPUT
	GATE_THRESHOLD	<Micro Name>	<Threshold Level>		Shows the current NOISE GATE THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ASSIGN	<Micro Name>	<Assign Value>		Shows the current TALKOVER ASSIGN for the specified MIC INPUT
	TALKOVER_PRIORITY	<Micro Name>	<Priority number>		Shows the current TALKOVER PRIORITY for the specified MIC INPUT
	TALKOVER_THRESHOLD	<Micro Name>	<Threshold Level>		Shows the current TALKOVER THRESHOLD LEVEL for the specified MIC INPUT
	TALKOVER_ATTACK	<Micro Name>	<Attack Time Value>		Shows the current TALKOVER ATTACK TIME for the specified MIC INPUT
	TALKOVER_RELEASE	<Micro Name>	<Release Time Value>		Shows the current TALKOVER RELEASE TIME for the specified MIC INPUT
	TALKOVER_DEPTH	<Micro Name>	<Depth Level>		Shows the current TALKOVER DEPTH (attenuation) for the specified MIC INPUT

	REMOTE_SELECTOR	<Rem Select Value>	<Zone>		Shows de current REMOTE SELECTOR function for the specified ZONE
	IR_REMOTE	ON/OFF			Shows the current IR REMOTE status (ON or OFF)
	DISPLAY_MODE	<Display Mode>			Shows the current DISPLAY MODE
	LCD_CONTRAST	<Contrast Level>			Shows the current DISPLAY CONTRAST level
	AUTO_STANDBY	ON/OFF			Shows the current AUTO STANDBY function status (ON or OFF)
	AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
	PANEL_LOCKED	ON/OFF			Shows the current PANEL_LOCKED (front panel controls) status
	INFO_MODEL	<Device Model>			Shows the Device model name
	INFO_VERSION	<Firmware Version>			Shows the current Firmware Version

DAM514

TYPE	PARAM1	PARAM2	PARAM3	PARAM 4	DESCRIPCIÓN
GET	ALL				Dumps current device status (with DATA messages)
	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER				Gets the current PRESET number
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T6>			Gets a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T6) name
	REMOTE_MODE	<Remote=R1:R4>			Gets the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>			Gets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>			Gets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)

DISPLAY_MODE				Gets the current LCD DISPLAY MODE
LCD_CONTRAST				Gets the current LCD DISPLAY CONTRAST level
EXT_MUTE_ZONES				Gets the outputs to be muted by an external contact closure, connected to the MUTE port
IN_LABEL	<Input=I1:I5>			Gets the current LABEL (name) for the specified INPUT
IN_STEREO	<Input=I4:I5>			Gets the current STEREO link status (ON or OFF) for INPUTs 4 and 5
IN_MUTE	<Input=I1:I5>			Gets the current MUTE status (ON or OFF) for the specified INPUT
IN_VOL	<Input=I1:I5>			Gets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I5>			Gets the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I5>			Gets the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I5>			Gets the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I4:I5>			Gets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I4:I5>			Gets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I4:I5>			Gets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I4:I5>			Gets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I4:I5>			Gets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I4:I5>			Gets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I4:I5>			Gets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I4:I5>			Gets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I4:I5>			Gets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT

TALKOVER_ACTIVE	<Input=I4:I5>			Gets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I4:I5>			Gets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I4:I5>			Gets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I4:I5>			Gets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT
TALKOVER_THRESHOLD	<Input=I4:I5>			Gets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I4:I5>			Gets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I4:I5>			Gets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I4:I5>			Gets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I4:I5>			Gets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I4:I5>			Gets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I4:I5>			Gets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I5>	<Zone=ZA:ZD>		Gets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>		Gets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>			Gets the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>			Gets the current STEREO link status (ON or OFF) the specified output zone

ZONE_MUTE	<Zone=ZA:ZD>			Gets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>			Gets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>			Gets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>		Gets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
SET	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number
	LOAD_PRESET	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number (same function as PRESET_NUMBER)
	SAVE_PRESET	<Preset=P1:P20>	"<Name>"		Saves the current configuration into a certain PRESET position (from P1 to P20) and with a certain LABEL, or name (between quotation marks to allow for blank characters in the label)
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Sets the working mode for a certain REMOTE port (from R1 to R4). Valid working modes are: DISABLED, IN_VOL, ZONE_VOL, IN_SEL, IN_SEL_IN_LEVEL, IN_SEL_ZONE_VOL, PRESET, PRESET_ZONE_VOL
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I5>		Sets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4). Inputs parameter can include I1 to I5, separated by comma characters and no blank space (example: I1,I2,I3)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Sets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4). Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	DISPLAY_MODE	<DisplayMode>			Sets the current LCD DISPLAY MODE (NORMAL or DIMMED or OFF)
	LCD_CONTRAST	<Contrast=0:100>			Sets the current LCD DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Sets the list of outputs to be muted by an external contact closure, connected to the MUTE port. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	IN_LABEL	<Input=I1:I5>	"<Label>"		Sets the current LABEL (name) for the specified INPUT (between quotation marks to allow for blank characters in the label)
	IN_STEREO	<Input=I4:I5>	ON/OFF		Sets the current STEREO link status (ON or OFF) for INPUTs 4 and 5
	IN_MUTE	<Input=I1:I5>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified INPUT

IN_VOL	<Input=I1:I5>	<Volume=0:99>		Sets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I5>	<Gain=dBx10>		Sets the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I5>	<Gain=dBx10>		Sets the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I5>	<Gain=dBx10>		Sets the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I4:I5>	<Frequency=Hz>		Sets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Sets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Sets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I4:I5>	<AttackTime=msx10>		Sets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I4:I5>	<HoldTime=msx10>		Sets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I4:I5>	<ReleaseTime=msx10>		Sets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I4:I5>	ON/OFF		Sets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I4:I5>	PAGER/DUCKER		Sets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I4:I5>	LOW/HIGH		Sets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I4:I5>	<Zones=ZA:ZD>		Sets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)

TALKOVER_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Sets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Sets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I4:I5>	<AttackTime=msx10>		Sets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I4:I5>	<HoldTime=msx10>		Sets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I4:I5>	<ReleaseTime=msx10>		Sets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I4:I5>	<ChimeMelody>		Sets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I4:I5>	<Volume=dBx10>		Sets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I5>	<Zone=ZA:ZD>	ON/OFF	Sets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>	<Level=0:99>	Sets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Sets the current LABEL (name) for the specified output zone (between quotation marks to allow for blank characters in the label)
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Sets the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Sets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10>	Sets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone

XOVER_TYPE	<Zone=ZA:ZD>	LP/HP		Sets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>		Sets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
DATA	INFO_MODEL	<DeviceModel>			Shows the Device model name
	INFO_VERSION	<FirmwareVersion>			Shows the current Firmware Version
	AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T6>			Shows the current PRESET number (active preset)
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T6>	"<Name>"		Shows a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T6) name
	PRESET_DONE	<Preset=P1:P20> <Preset=T1:T6>			Shows that the last SET LOAD_PRESET or SET PRESET_NUMBER command has been processed: the preset is loaded and active
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Shows the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I5>		Shows the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Shows the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	DISPLAY_MODE	<DisplayMode>			Shows the current DISPLAY MODE
	LCD_CONTRAST	<Contrast=0:100>			Shows the current DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Shows the list of outputs to be muted by an external contact closure, connected to the MUTE port
	IN_LABEL	<Input=I1:I5>	"<Label>"		Shows the current LABEL (name) for the specified INPUT
	IN_STEREO	<Input=I4:I5>	ON/OFF		Shows the current STEREO link status (ON or OFF) for INPUTs 4 and 5

IN_MUTE	<Input=I1:I5>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified INPUT
IN_VOL	<Input=I1:I5>	<Volume=0:99>		Shows the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I5>	<Gain=dBx10>		Shows the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I5>	<Gain=dBx10>		Shows the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I5>	<Gain=dBx10>		Shows the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I4:I5>	ON/OFF		Shows the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I4:I5>	<Frequency=Hz>		Shows the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I4:I5>	ON/OFF		Shows the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I4:I5>	ON/OFF		Showss the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Shows the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Shows the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I4:I5>	<AttackTime=ms>		Shows the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I4:I5>	<HoldTime=ms>		Shows the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I4:I5>	<ReleaseTime=ms>		Shows the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I4:I5>	ON/OFF		Shows the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I4:I5>	PAGER/DUCKER		Shows the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I4:I5>	LOW/HIGH		Shows the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT

TALKOVER_ZONES	<Input=I4:I5>	<Zones=ZA:ZD>		Shows the current TALKOVER assignment to outputs (ZONES) for the specified INPUT
TALKOVER_THRESHOLD	<Input=I4:I5>	<Threshold=dBx10>		Shows the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I4:I5>	<Depth=dBx10>		Shows the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I4:I5>	<AttackTime=msx10>		Shows the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I4:I5>	<HoldTime=msx10>		Shows the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I4:I5>	<ReleaseTime=msx10>		Shows the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I4:I5>	<ChimeMelody>		Shows the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I4:I5>	<Volume=dBx10>		Shows the current CHIME VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I5>	<Zone=ZA:ZD>	ON/OFF	Shows the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>	<Level=0:99>	Shows the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Shows the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Shows the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Shows the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10>	Shows the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone

XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>	LP/HP		Shows the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>		Shows the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
INC/DEC	PRESET_NUMBER	<Count>			INCrements / DECrements the current active PRESET number
	IN_VOL	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	IN_BASS	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current BASS tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_MID	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current MIDDLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_TREBLE	<Input=I1:I5>	<Count>		Increments / decrements a certain INPUT's current TREBLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	XLEVEL	<Input=I1:I5>	<Zone=ZA:ZD>	<Count>	Increments / decrements a certain CROSSPOINT current VOLUME (matrix level sent from one input to one output). The increment applied is defined by the Count parameter (dBx10)
	ZONE_VOL	<Zone=ZA:ZD>	<Count>		Increments / decrements a certain output ZONE current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Count>	Increments / decrements, in a certain output ZONE, the current GAIN for a certain GRAPHICAL EQUALIZER band. The increment applied is defined by the Count parameter (dBx10)

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
ERROR	<Error ID>	"<Error Description>"			Informs about an error

ERROR CODES

ERROR ID	DESCRIPTION
0	No Error
1	Invalid field TYPE
2	Invalid field PARAM1
3	Invalid field PARAM2
4	Invalid field PARAM3
5	Invalid field PARAM4
9	Rejected Message
10	Message too long (more than 80 characters)
11	Unsupported Preset number
17	Invalid Level value

DAM614

TYPE	PARAM1	PARAM2	PARAM3	PARAM 4	DESCRIPCIÓN
GET	ALL				Dumps current device status (with DATA messages)
	INFO_MODEL				Gets the Device model name
	INFO_VERSION				Gets the current Firmware Version
	AUTOLOAD_PRESET1				Gets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER				Gets the current PRESET number
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T9>			Gets a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T9) name
	REMOTE_MODE	<Remote=R1:R4>			Gets the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>			Gets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>			Gets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	DISPLAY_MODE				Gets the current LCD DISPLAY MODE
	LCD_CONTRAST				Gets the current LCD DISPLAY CONTRAST level
	EXT_MUTE_ZONES				Gets the outputs to be muted by an external contact closure, connected to the MUTE port
	IN_LABEL	<Input=I1:I6>			Gets the current LABEL (name) for the specified INPUT
	IN_STEREO	<Input=I3:I6>			Gets the current STEREO link status (ON or OFF) for INPUTs 3 and 4
	IN_MUTE	<Input=I1:I6>			Gets the current MUTE status (ON or OFF) for the specified INPUT
	IN_VOL	<Input=I1:I6>			Gets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
	IN_BASS	<Input=I1:I6>			Gets the current BASS tone LEVEL for the specified INPUT
	IN_MID	<Input=I1:I6>			Gets the current MIDDLE tone LEVEL for the specified INPUT
	IN_TREBLE	<Input=I1:I6>			Gets the current TREBLE tone LEVEL for the specified INPUT
	HPF_ACTIVE	<Input=I3:I6>			Gets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
	HPF_FREQUENCY	<Input=I3:I6>			Gets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT

FBS_ACTIVE	<Input=I3:I6>				Gets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I3:I6>				Gets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I3:I6>				Gets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I3:I6>				Gets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I3:I6>				Gets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I3:I6>				Gets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I3:I6>				Gets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I3:I6>				Gets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I3:I6>				Gets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I3:I6>				Gets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I3:I6>				Gets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT
TALKOVER_THRESHOLD	<Input=I3:I6>				Gets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I3:I6>				Gets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I3:I6>				Gets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I3:I6>				Gets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I3:I6>				Gets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT

CHIME_MELODY	<Input=I3:I6>			Gets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I3:I6>			Gets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I6>	<Zone=ZA:ZD>		Gets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>		Gets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>			Gets the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>			Gets the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>			Gets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>			Gets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>			Gets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>		Gets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>			Gets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone
COMPRESSOR_ACTIVE	<Zone=ZA:ZD>			Gets the current COMPRESSOR status (ON or OFF) for the specified output zone
COMPRESSOR_THRESHOLD	<Zone=ZA:ZD>			Gets the current COMPRESSOR THRESHOLD LEVEL (dBx10) for the specified output zone
COMPRESSOR_RATIO	<Zone=ZA:ZD>			Gets the current COMPRESSOR RATIO (x100) for the specified output zone
COMPRESSOR_ATTACK	<Zone=ZA:ZD>			Gets the current COMPRESSOR ATTACK TIME (milliseconds x10) for the specified output zone
COMPRESSOR_RELEASE	<Zone=ZA:ZD>			Gets the current COMPRESSOR RELEASE TIME (milliseconds x10) for the specified output zone

COMPRESSOR_KNEE	<Zone=ZA:ZD>			Gets the current COMPRESSOR KNEE mode (SOFT or HARD) for the specified output zone
COMPRESSOR_GAIN	<Zone=ZA:ZD>			Gets the current COMPRESSOR GAIN (dBx10) for the specified output zone
DELAY_ACTIVE	<Zone=ZA:ZD>			Gets the current DELAY status (ON or OFF) for the specified output zone
DELAY_TIME	<Zone=ZA:ZD>			Gets the current DELAY TIME (milliseconds x10) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
SET	AUTOLOAD_PRESET1	ON/OFF			Sets the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number
	LOAD_PRESET	<Preset=P1:P20> <Preset=T1:T9>			Sets (loads) the current PRESET number (same function as PRESET_NUMBER)
	SAVE_PRESET	<Preset=P1:P20>	"<Name>"		Saves the current configuration into a certain PRESET position (from P1 to P20) and with a certain LABEL, or name (between quotation marks to allow for blank characters in the label)
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Sets the working mode for a certain REMOTE port (from R1 to R4). Valid working modes are: DISABLED, IN_VOL, ZONE_VOL, IN_SEL, IN_SEL_IN_LEVEL, IN_SEL_ZONE_VOL, PRESET, PRESET_ZONE_VOL
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I6>		Sets the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4). Inputs parameter can include I1 to I6, separated by comma characters and no blank space (example: I1,I2,I3)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Sets the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4). Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	DISPLAY_MODE	<DisplayMode>			Sets the current LCD DISPLAY MODE (NORMAL or DIMMED or OFF)
	LCD_CONTRAST	<Contrast=0:100>			Sets the current LCD DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Sets the list of outputs to be muted by an external contact closure, connected to the MUTE port. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
	IN_LABEL	<Input=I1:I6>	"<Label>"		Sets the current LABEL (name) for the specified INPUT (between quotation marks to allow for blank characters in the label)
	IN_STEREO	<Input=I3:I6>	ON/OFF		Sets the current STEREO link status (ON or OFF) for INPUTs 4 and 5

IN_MUTE	<Input=I1:I6>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified INPUT
IN_VOL	<Input=I1:I6>	<Volume=0:99>		Sets the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I6>	<Gain=dBx10>		Sets the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I6>	<Gain=dBx10>		Sets the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I6>	<Gain=dBx10>		Sets the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I3:I6>	<Frequency=Hz>		Sets the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Sets the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Sets the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I3:I6>	<AttackTime=msx10>		Sets the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I3:I6>	<HoldTime=msx10>		Sets the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I3:I6>	<ReleaseTime=msx10>		Sets the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I3:I6>	ON/OFF		Sets the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I3:I6>	PAGER/DUCKER		Sets the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I3:I6>	LOW/HIGH		Sets the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT

TALKOVER_ZONES	<Input=I3:I6>	<Zones=ZA:ZD>		Sets the current TALKOVER assignment to outputs (ZONES) for the specified INPUT. Zones parameter can include ZA to ZD, separated by comma characters and no blank space (example: ZA,ZC,ZD)
TALKOVER_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Sets the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Sets the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I3:I6>	<AttackTime=msx10>		Sets the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I3:I6>	<HoldTime=msx10>		Sets the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I3:I6>	<ReleaseTime=msx10>		Sets the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I3:I6>	<ChimeMelody>		Sets the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I3:I6>	<Volume=dBx10>		Sets the current CHIME MELODY VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I6>	<Zone=ZA:ZD>	ON/OFF	Sets the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>	<Level=0:99>	Sets the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Sets the current LABEL (name) for the specified output zone (between quotation marks to allow for blank characters in the label)
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Sets the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Sets the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Sets the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone

GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10>	Sets the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current CROSSOVER FILTER status (ON or OFF) for the specified output zone
XOVER_TYPE	<Zone=ZA:ZD>	LP/HP		Sets the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>		Sets the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone
COMPRESSOR_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current COMPRESSOR status (ON or OFF) for the specified output zone
COMPRESSOR_THRESHOLD	<Zone=ZA:ZD>	<Threshold=dBx10>		Sets the current COMPRESSOR THRESHOLD LEVEL (dBx10) for the specified output zone
COMPRESSOR_RATIO	<Zone=ZA:ZD>	<Ratio=x100>		Sets the current COMPRESSOR RATIO (x100) for the specified output zone
COMPRESSOR_ATTACK	<Zone=ZA:ZD>	<AttackTime=msx10>		Sets the current COMPRESSOR ATTACK TIME (milliseconds x10) for the specified output zone
COMPRESSOR_RELEASE	<Zone=ZA:ZD>	<ReleaseTime=msx10>		Sets the current COMPRESSOR RELEASE TIME (milliseconds x10) for the specified output zone
COMPRESSOR_KNEE	<Zone=ZA:ZD>	SOFT/HARD		Sets the current COMPRESSOR KNEE mode (SOFT or HARD) for the specified output zone
COMPRESSOR_GAIN	<Zone=ZA:ZD>	<Gain=dBx10>		Sets the current COMPRESSOR GAIN (dBx10) for the specified output zone
DELAY_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Sets the current DELAY status (ON or OFF) for the specified output zone
DELAY_TIME	<Zone=ZA:ZD>	<DelayTime=msx10>		Sets the current DELAY TIME (milliseconds x10) for the specified output zone

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TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
DATA	INFO_MODEL	<DeviceModel>			Shows the Device model name
	INFO_VERSION	<FirmwareVersion>			Shows the current Firmware Version
	AUTOLOAD_PRESET1	ON/OFF			Shows the current AUTOLOAD_PRESET1 at Startup function
	PRESET_NUMBER	<Preset=P1:P20> <Preset=T1:T9>			Shows the current PRESET number (active preset)
	PRESET_NAME	<Preset=P1:P20> <Preset=T1:T9>	"<Name>"		Shows a certain PRESET (from P1 to P20) or TEMPLATE (from T1 to T9) name
	PRESET_DONE	<Preset=P1:P20> <Preset=T1:T9>			Shows that the last SET LOAD_PRESET or SET PRESET_NUMBER command has been processed: the preset is loaded and active
	REMOTE_MODE	<Remote=R1:R4>	<RemoteMode>		Shows the working mode for a certain REMOTE port (from R1 to R4)
	REMOTE_INPUTS	<Remote=R1:R4>	<Inputs=I1:I6>		Shows the list of inputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	REMOTE_ZONES	<Remote=R1:R4>	<Zones=ZA:ZD>		Shows the list of outputs affected by the working mode of a certain REMOTE port (from R1 to R4)
	DISPLAY_MODE	<DisplayMode>			Shows the current DISPLAY MODE
	LCD_CONTRAST	<Contrast=0:100>			Shows the current DISPLAY CONTRAST level
	EXT_MUTE_ZONES	<Zones=ZA:ZD>			Shows the list of outputs to be muted by an external contact closure, connected to the MUTE port
	IN_LABEL	<Input=I1:I6>	"<Label>"		Shows the current LABEL (name) for the specified INPUT
	IN_STEREO	<Input=I3:I6>	ON/OFF		Shows the current STEREO link status (ON or OFF) for INPUTs 4 and 5
	IN_MUTE	<Input=I1:I6>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified INPUT

IN_VOL	<Input=I1:I6>	<Volume=0:99>		Shows the current VOLUME for the specified INPUT (general input volume, affecting all the post processing)
IN_BASS	<Input=I1:I6>	<Gain=dBx10>		Shows the current BASS tone LEVEL for the specified INPUT
IN_MID	<Input=I1:I6>	<Gain=dBx10>		Shows the current MIDDLE tone LEVEL for the specified INPUT
IN_TREBLE	<Input=I1:I6>	<Gain=dBx10>		Shows the current TREBLE tone LEVEL for the specified INPUT
HPF_ACTIVE	<Input=I3:I6>	ON/OFF		Shows the current HIGH PASS FILTER status (ON or OFF) for the specified INPUT
HPF_FREQUENCY	<Input=I3:I6>	<Frequency=Hz>		Shows the current HIGH PASS FILTER frequency (Hz) for the specified INPUT
FBS_ACTIVE	<Input=I3:I6>	ON/OFF		Shows the current FEEDBACK SUPPRESSOR feature status (ON or OFF) for the specified INPUT
GATE_ACTIVE	<Input=I3:I6>	ON/OFF		Showss the current NOISE GATE status (ON or OFF) for the specified INPUT
GATE_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Shows the current NOISE GATE THRESHOLD LEVEL (dBx10) for the specified INPUT
GATE_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Shows the current NOISE GATE DEPTH (attenuation when gate is closed, dBx10) for the specified INPUT
GATE_ATTACK	<Input=I3:I6>	<AttackTime=ms>		Shows the current NOISE GATE ATTACK TIME (milliseconds x10) for the specified INPUT
GATE_HOLD	<Input=I3:I6>	<HoldTime=ms>		Shows the current NOISE GATE HOLD TIME (milliseconds x10) for the specified INPUT
GATE_RELEASE	<Input=I3:I6>	<ReleaseTime=ms>		Shows the current NOISE GATE RELEASE TIME (milliseconds x10) for the specified INPUT
TALKOVER_ACTIVE	<Input=I3:I6>	ON/OFF		Shows the current TALKOVER status (ON or OFF) for the specified INPUT
TALKOVER_MODE	<Input=I3:I6>	PAGER/DUCKER		Shows the TALKOVER function working mode (PAGER or DUCKER) for the specified INPUT
TALKOVER_PRIORITY	<Input=I3:I6>	LOW/HIGH		Shows the current TALKOVER PRIORITY level (LOW or HIGH) for the specified INPUT
TALKOVER_ZONES	<Input=I3:I6>	<Zones=ZA:ZD>		Shows the current TALKOVER assignment to outputs (ZONES) for the specified INPUT

TALKOVER_THRESHOLD	<Input=I3:I6>	<Threshold=dBx10>		Shows the current TALKOVER THRESHOLD LEVEL (dBx10) for the specified INPUT
TALKOVER_DEPTH	<Input=I3:I6>	<Depth=dBx10>		Shows the current TALKOVER DEPTH (attenuation, dBx10) for the specified INPUT
TALKOVER_ATTACK	<Input=I3:I6>	<AttackTime=msx10>		Shows the current TALKOVER ATTACK TIME (milliseconds x10) for the specified INPUT
TALKOVER_HOLD	<Input=I3:I6>	<HoldTime=msx10>		Shows the current TALKOVER HOLD TIME (milliseconds x10) for the specified INPUT
TALKOVER_RELEASE	<Input=I3:I6>	<ReleaseTime=msx10>		Shows the current TALKOVER RELEASE TIME (milliseconds x10) for the specified INPUT
CHIME_MELODY	<Input=I3:I6>	<ChimeMelody>		Shows the current CHIME MELODY selected for the TALKOVER function in PAGER mode
CHIME_VOL	<Input=I3:I6>	<Volume=dBx10>		Shows the current CHIME VOLUME (dBx10) adjusted for the TALKOVER function in PAGER mode
XSELECT	<Input=I1:I6>	<Zone=ZA:ZD>	ON/OFF	Shows the current CROSSPOINT SELECT status (ON (input active) or OFF (input muted)) for the specified INPUT at the specified output zone
XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>	<Level=0:99>	Shows the current CROSSPOINT LEVEL (mix level) for the specified INPUT at the specified output zone
ZONE_LABEL	<Zone=ZA:ZD>	"<Label>"		Shows the current LABEL (name) for the specified output zone
ZONE_STEREO	<Zone=ZA:ZD>	ON/OFF		Shows the current STEREO link status (ON or OFF) the specified output zone
ZONE_MUTE	<Zone=ZA:ZD>	ON/OFF		Shows the current MUTE status (ON or OFF) for the specified output zone
ZONE_VOL	<Zone=ZA:ZD>	<Volume=0:99>		Shows the current VOLUME for the specified output zone
GEQ_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current GRAPHICAL EQUALIZER status (ON or OFF) for the specified output zone
GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Gain=dBx10>	Shows the current GAIN (dBx10) of one BAND (B1 to B10) of the GRAPHICAL EQUALIZER for the specified output zone
XOVER_ACTIVE	<Zone=ZA:ZD>	ON/OFF		Shows the current CROSSOVER FILTER status (ON or OFF) for the specified output zone

XOVER_TYPE	<Zone=ZA:ZD>	LP/HP			Shows the current CROSSOVER FILTER TYPE (LP or HP) for the specified output zone
XOVER_FREQUENCY	<Zone=ZA:ZD>	<Frequency=Hz>			Shows the current CROSSOVER FILTER FREQUENCY (Hz) for the specified output zone
COMPRESSOR_ACTIVE	<Zone=ZA:ZD>	ON/OFF			Shows the current COMPRESSOR status (ON or OFF) for the specified output zone
COMPRESSOR_THRESHOLD	<Zone=ZA:ZD>	<Threshold=dBx10>			Shows the current COMPRESSOR THRESHOLD LEVEL (dBx10) for the specified output zone
COMPRESSOR_RATIO	<Zone=ZA:ZD>	<Ratio=x100>			Shows the current COMPRESSOR RATIO (x100) for the specified output zone
COMPRESSOR_ATTACK	<Zone=ZA:ZD>	<AttackTime=msx10>			Shows the current COMPRESSOR ATTACK TIME (milliseconds x10) for the specified output zone
COMPRESSOR_RELEASE	<Zone=ZA:ZD>	<ReleaseTime=msx10>			Shows the current COMPRESSOR RELEASE TIME (milliseconds x10) for the specified output zone
COMPRESSOR_KNEE	<Zone=ZA:ZD>	SOFT/HARD			Shows the current COMPRESSOR KNEE mode (SOFT or HARD) for the specified output zone
COMPRESSOR_GAIN	<Zone=ZA:ZD>	<Gain=dBx10>			Shows the current COMPRESSOR GAIN (dBx10) for the specified output zone
DELAY_ACTIVE	<Zone=ZA:ZD>	ON/OFF			Shows the current DELAY status (ON or OFF) for the specified output zone
DELAY_TIME	<Zone=ZA:ZD>	<DelayTime=msx10>			Shows the current DELAY TIME (milliseconds x10) for the specified output zone

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPCIÓN
INC/DEC	PRESET_NUMBER	<Count>			**INC**rements / **DEC**rements the current active PRESET number
	IN_VOL	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	IN_BASS	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current BASS tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_MID	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current MIDDLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	IN_TREBLE	<Input=I1:I6>	<Count>		Increments / decrements a certain INPUT's current TREBLE tone LEVEL. The increment applied is defined by the Count parameter (dBx10)
	XLEVEL	<Input=I1:I6>	<Zone=ZA:ZD>	<Count>	Increments / decrements a certain CROSSPOINT current VOLUME (matrix level sent from one input to one output). The increment applied is defined by the Count parameter (dBx10)
	ZONE_VOL	<Zone=ZA:ZD>	<Count>		Increments / decrements a certain output ZONE current VOLUME. The increment applied is defined by the Count parameter (dBx10)
	GEQ_GAIN	<Zone=ZA:ZD>	<Band=B1:B10>	<Count>	Increments / decrements, in a certain output ZONE, the current GAIN for a certain GRAPHICAL EQUALIZER band. The increment applied is defined by the Count parameter (dBx10)