# TSP40

Professional FM tuner

## ▶ Features

- **Worldwide FM band support**
- **RDS station information**
- **Manual & auto tuning**
- **2.8" TFT display with intuitive interface & controls**
- **F-type antenna connection**
- **Preferential station storage (10 entries)**
- **Signal strength indication**
- **Balanced stereo audio output**
- **Front panel & RS-232 remote control**

## ▶ Applications

- **Clubs & pubs**
- **Restaurants & bars**
- **Warehouses & retail stores**
- **Public & office buildings**
- **Houses of worship**
- **...**

FM

The TSP40 is a professional FM tuner with worldwide FM band support which provides access to a wide variation of radio stations while guaranteeing a high-quality audio reproduction. Station selection can be done manually or automatically, while up to 10 preferred channels can be internally stored and recalled.

The front panel of the system accomodates a 2.8" TFT display in combination with a push rotary function dial and 4 tactile pushbuttons. The controls and indicators on the front panel of the unit are guaranteeing an intuitive and user friendly operation, allowing hassle free operation and configuration to even unexperienced users. Information such as radio station information carried by RDS and signal reception strength are indicated.

The signal output level is user configurable and traffic announcement volume can be individually set which guarantees the best intelligibility in specific requiring applications. Other functions such as mono/stereo switching always guarantee the best possible audio reception. The FM tuning range can be switched between 64 ~ 108 MHz and 87.5 ~ 108 MHz for worldwide FM band support.

The antenna input is implemented by an F-type connector allowing connection of the included antenna cable or any other external antenna using 75 Ω coaxial cabling. The balanced stereo line output is connected through two 3-pin terminal block connections.

The RS-232 communication port allows system integration with any home or industrial automation system, while an optional 2.4 GHz remote control allows handheld control while hidden out of sight.

## ▶ Specifications

| SYSTEM SPECIFICATIONS | |
|---|---|
| Control | Front panel |
| | RS232 |
| FM Tuning range | 64 ~ 108 Mhz |
| Sensitivity | - 100 dBm |
| Signal/noise | 42 dB |
| THD+N | < 0.1% |
| Frequency response | 30 Hz - 15 kHz |
| Crosstalk | 42 dB |
| Input | F-type antenna connection (75 Ω) |
| Output | Balanced stereo line output (3-pin Euro Terminal Block - 3.81 mm) |
| Output level | +8 dB ~ -55 dB |
| Display | 2.8" Graphical LCD |
| Power supply | Switching mode |
| Power source | 110 ~ 240V AC / 50 ~ 60 Hz |
| Operating temperature | 0° ~ 40° C at 95% humidity |
| Power consumption | 0.5 Watt |
| PRODUCT FEATURES | |
| Dimensions (Width x Height x Depth) | 482 x 44 x 330 mm |
| Weight net | 3.15 Kg |
| Mounting | 19" |
| Unit height | 1 HE |
| Construction | Steel |
| Colour | Black |
| SHIPPING & ORDERING | |
| Packaging | Cardboard box |
| Shipping weight and volume | 4.75 Kg - 0.028 Cbm |
| Accessories included | Antenna cable |
| Optional accessories | ASK10S 4-Way antenna splitter kit |
| | 2.4 GHz remote control |

*AUDAC reserves the right to change specifications without notice: this is part of our policy to continuously improve our products.

# ▶ Architects' and Engineers' Specifications

The audio source shall be a professional FM tuner capable for a worldwide reception to a wide variation of radio stations with high-quality audio. The FM reception shall be tuneable within a range from 64 MHz up to 108 MHz or 87.5 MHz up to 108 MHz. The selection / tuning for the radio stations shall be possible using both manual or automatic search functionalities. An internal memory shall allow storage up to 10 preferred audio channels which are easy to be recalled.

The front panel shall contain an AC power switch accompanied with a blue power indicator LED. A Graphical 2.8" TFT display combination with a push rotary function dial and 4 tactile push buttons shall be implemented, guaranteeing an intuitive and user friendly experience with clear overview of the systems functions and current operation modes. Additionally carried radio station information (RDS) and signal reception strength shall be displayed.

The signal output level shall be user (software) configurable within a range of +8 dB and - 55 dB while the traffic announcement (TA) announcement output level can be individually configured for improving intelligibility in specific requiring applications. An RS-232 command port accompanied with an 'UPDATE' USB slot shall be implemented on the rear side of the unit. The RS-232 connection allows control from any home or industrial automation system, while the USB slot allows simple system updates or compatibility with optionally available RF remote control units.

The antenna input connection shall be implemented using an F-type (75 Ω) antenna connection, while the audio output is a balanced stereo line output connected through two 3-pin terminal block connectors.

The audio source shall operate on a 110~240 V AC / 50~ 60 Hz mains network and shall be equipped with a removable power cord having a standard shuko (CEE 7/7) AC plug. The connector on the audio source chassis shall be a fused IEC C14 type.

The chassis shall be a single rackspace steel constructed 19'' housing. Depth from mounting surface to rear supports shall be 330 mm and the weight shall not exceed 3.15 Kg.