TM-600 / TM-610

Analog mobile radios

TM-600

TM-610

The powerful and easy to operate mobile radios TM-600 and TM-610 are immediately operational and ensure a reliable communication that is required for the efficient work of mobile teams. The HYT voice compander for an improved audio signal and a powerful loudspeaker ensure an outstanding and clear voice quality, even in loud environments.

HYT
Two-way Radio

www.hytera.de/en

Radio

TM-600
TM-610

Analog mobile radios

Highlights

Automatic Number Identification (ANI)

When receiving an HDC2400TM or HDC1200 signal, the display shows the identification or the name of the caller. The firmware of the radio transceiver supports a selective call list with up to 128 entries (128 for TM-610, 8 for TM-600).

Stun / Kill & Revive

This function protects against unauthorised use of lost or rented devices using a remote-controlled blocking of the transmitting or transmitting/receiving mode. A blocked device can be used again only after entering the unblock code.

DTMF function

The DTMF call function provides you with flexible dialling procedures, such as dial by names, automatic dialling, repeat dial and manual dialling. Frequently dialled call numbers can be stored individually and user-friendly in the call number memory.

Loudspeaker function (PA)

With the loudspeaker function, the audio signal of the microphone is transferred to the external loudspeaker via the powerful amplifier. This allows clear announcements from the vehicle.

### Large 15-segment LCD display (TM-610)

You can show channels or zones as well as call numbers and other function settings via the display. Keyboard and display are illuminated so that good visibility is ensured even at night.

Numeric 8-segment LED display (TM-600)

The numeric 8-segment display shows the operating channel. In addition, LEDs show the channel search and transmitting power.

128 channels and dynamic "regrouping" function (TM-610)

128 channels and the "zoning" function of the TM-610 provide you with a flexible organisation of work groups. You can assign any name to every channel and every zone so that a simple identification is possible. The dynamic regrouping function enables highest flexibility in a changing working group environment.
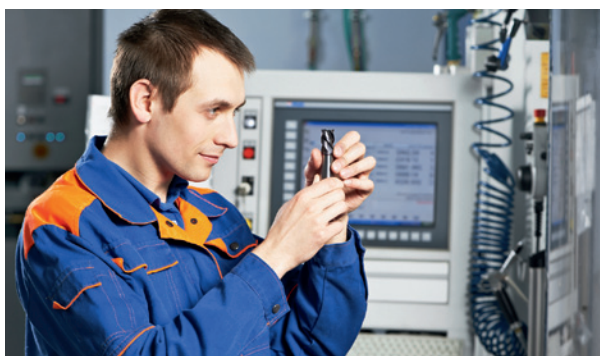
Functions

Lone Worker Function
The Lone Worker Function offers you additional safety if you are working aloneand outside from your team. If you do not respond to a warning tone that is emitted at regular intervals, an emergency call is automatically transmitted.

Operation via vehicle ignition key, time-controlled switch-off
The radio transceiver can be switched on and off together with the ignition of the vehicle. In this case, the device can be switched on only via the vehicle ignition and is automatically switched off after a preset time after the engine is switched off.

6/4 programmable keys with background illumination
These keys allow quick and easy access to the most frequently used functions.

Line-connected "cloning" function
This function allows transferring the radio parameters quickly and easily from one radio transceiver to another radio transceiver.

UST (User Selectable Tone)
You can select the CTCSS/CDCSS codes via a programmed function key.

Varied scan options (TM-610)
The TM-610 scan enables a single or multi-zone scan. With the scan functions, channels can be added/removed and interference channels can be deleted. In addition, you can select a priority channel.

Channel scan (TM-600)
The scan function of the TM-600 also contains the priority channel search, selection of a priority channel as well as temporary deletion of an interfered channel.

Additional features
— Programming via PC
— Dual home channels
— Auto transpond
— Time-out timer (TOT)
— Busy channel lockout
— BOT ID / EOT ID
— Off-hook decode
— Selectable squelch levels
— Frequency reverse
— Talk-around function
— Leasing operation

Powerful loudspeaker
The HYT voice compander and powerful loudspeakers ensure a clear audio output.

Numeric 8-segment LED display (TM-600)
The numeric 8-segment display shows the operating channel. LEDs show the channel search and transmitting power.

Large 15-segment LCD display (TM-610)
Channels, call numbers and other function settings are displayed. Keyboard and display are illuminated so that good visibility is ensured even at night.

Emergency call
With the emergency call button, both radio transceivers can transmit an emergency call signal.

Standard accessories

Hand-held microphone SM11R1	Hand-held micro-phone holder	Installation kit BRK04	Vehicle power cable 3 m PWC06	Fuse POA15

Optional accessories (excerpt)

Hand-held microphone SM07R2	Hand-held micro-phone with 16-key keypad SM07R1	External speaker SM09S2	Table microphone SM10R2	Programming cable PC21

The illustrations shown above are only for reference purposes. The products themselves may vary from these representations.

Technical data

General data

Frequency range	VHF: 136 – 174 MHz UHF: 400 – 470 MHz
Channel capacity	TM-600: 8 TM-610: 128
Channel spacing	12.5 / 20 / 25 kHz
Operating voltage	$13.6\,V_{DC} \pm 15\%$
Current consumption Standby mode Receiving mode Transmission mode	 0.5 A < 2.0 A < 5 A (5 W) / < 8 A (25 W)
Frequency stability	± 2.5 ppm
Operating temperature range	-30 °C to +60 °C
Antenna impedance	50 Ω
Dimensions (H × W × D)	152 × 43 × 125 mm
Weight	1 kg
Shock and vibration resistance	MIL-STD-810 C/D/E/F
Protection against dust and moisture	IP54

Transmitter

Transmitting power	VHF: 5 / 25 W UHF: 5 / 25 W
Modulation	16КФF3E / 11 КФF3E
Interfering signals and harmonics	-36 dBm (< 1 GHz) -30 dBm (> 1 GHz)
Signal-to-noise ratio	> 45 dB (20 / 25 KHz) > 40 dB (12.5 KHz)
Nominal audio distortion	≤ 3 %

Receiver

Sensitivity	0.28 µV
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	> 45 dB (20 / 25 kHz) > 40 dB (12.5 kHz)
Internal audio output power	5 W (< 5 % distortion) 3 W (< 3 % distortion)
External audio output power	13 W (< 5 % distortion) 12 W (< 3 % distortion)

All technical indications were tested according to the corresponding standards. Subject to change on the basis of continuous development.

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