Hytera
Respond & Achieve

TC-700P

Analog hand-held radio

Thanks to expanded audio processing and anti-interference technologies, the TC-700P provides you with an exceptionally clear communication, even in environments that are loud and prone to radio interferences. Furthermore, the multi-level safety mechanism offers an expanded safety solution for critical applications.

HYT
Two-way Radio

www.hytera.de/en

Radio

TC-700P

Analog hand-held radio

Highlights

Safety guaranteed
To ensure the protection and safety of the user, the TC-700P offers important functions for hazardous applications, emergencies and accidents with its performance features lone worker, man down (optional) and emergency alarm.

High transmitting power
With a transmitting power of up to 5 W, the TC-700P ensures a wide coverage.

Excellent audio quality
Thanks to its powerful loudspeaker with a diameter of 40 mm and an audio power output of up to 1.5 W, the TC-700P ensures a clear output even in a loud environment.

Telephone / 5-tone / HDC2400™ signalling
Telephone signalling: a type of signalling that enables access to the public telephone network.
5-tone signalling: a widely used signalling that employs audio signals. It provides support in the implementation of different performance features, such as individual call, group call, kill/revive, silent alarm, authorising, call forwarding, etc.
HDC2400™ signalling: a proprietary signalling from Hytera. It allows implementing varied features, such as PTT ID, selective call, radio check, safety check, kill/stun/revive, emergency, remote monitoring, auto contact, etc.

Expandable software
This feature allows retrofitting additional powerful functions without having to buy a new radio.

Whispering
With this feature, your voice is clearly heard, even if you are speaking softly.

Channel announcement
This feature enables the radio to output the current channel number when it is switched on or when the channel is changed.

Scan
The TC-700P supports two scan types: Normal scans and vote scans. Normal scans allow you to hear transmissions from other channels, while the vote scan supports you in establishing a connection to the closest base station.

Emergency
With this feature, users can ask the control room for help or their colleagues in case of an emergency.

Functions

- CTCSS / CDCSS
- Kompander
- Scrambler (randomizing the binary signals)
- Intercept
- Switching off squelch
- Call cancelling
- Warning with low battery charge
- Adjusting transmitting power
- Call 1 – call 5 (calls assignable to keys, e.g. for 5-tone signalling)
- Bypassing the repeater (talk around)
- VOX (Voice Operated eXchange)
- Time-out timer (TOT)
- Wireless copying of settings to another radio
- Manual / automatic matching with a PC
- Patrol monitoring (optional)

Safety Check
The TC-700P issues a warning tone if it receives a safety check signal from the control room or another radio. In this case, a button must be pressed to stop the warning tone and to show that everything is OK. Otherwise, the radio will automatically output an alarm.

Lone worker
If you do not operate your radio within the predefined time, the radio will automatically issue a warning tone. In this case, a button must be pressed to stop the warning tone and to show that nobody is in danger. Otherwise, your radio will automatically output an alarm.

Automatic contact
The TC-700P can detect whether a subscriber in its contact list is located outside its range. If this is the case, it outputs a warning tone.

Man down – optional
Provided that the TC-700P permanently changes into a different position other than vertical, a predefined emergency procedure is initiated. For example, if the user should have fallen and cannot get back up, his control room will be informed in due time by this procedure.

Adjustable squelch
With this feature, users can adjust the threshold of the squelch required by the radio to be switched back to loud.

Standard accessories

Lithium-ion battery (1700 mAh) BL1703

Charger CH10L07

Switching power adapter for charger (100–240VAC) PS1018

Belt clip BC08

Hand strap (leather) RO04

Antenna
VHF 146 – 174 MHz /
UHF 400 – 470 MHz

Optional accessories (Excerpt)

Lithium-ion battery (2100 mAh) BL2102

6-unit charger incl. power adapter MCA03

Battery optimizing system MCA05-A1

Carrying bag (leather) with belt strap LCBY22

Remote speaker microphone SM08N1

Programming cable (USB) PC25

Programming cable (COM) PC18

On-cable microphone set black, microphone combined with send button, transparent sound tube, VOX or PTT control EAN04

Earphone without ear clip, microphone combined with send button, VOX or PTT control ESN06

Earphone with ear clip (D-shape) and boom microphone, separate send button, VOX or PTT control EHN08

Earphone with ear clip (D-shape) and integrated microphone, separate send button, VOX or PTT control EHN07

Earphone with 3.5 mm jack plug (for use with remote speaker microphone) ESS07

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	16
Channel spacing	12.5 / 20 / 25 kHz
Operating voltage	7.4 V
Standard battery	1700 mAh (lithium-ion battery)
Battery service life (5-5-90 duty cycle)	approx. 12 hours
Frequency stability	± 2.5 ppm
Operating temperature range	-20 °C to +60 °C
Antenna impedance	50 Ω
Dimensions (H × W × D) (with standard battery, without antenna)	124 × 54 × 35 mm
Weight (with antenna and standard battery)	330 g
Shock and vibration resistance	MIL-STD-810 C/D/E/F
Protection against dust and moisture	IP54

Transmitter	
Transmitting power	VHF: 2 / 5 W UHF: 2 / 5 W
Modulation	16 KΦF3E / 11 KΦF3E
Interfering signals and harmonics	-36 dBm (< 1 GHz) -30 dBm (> 1 GHz)
Signal-to-noise ratio	40 / 45 dB
Nominal audio distortion	≤ 5 %

Receiver	
Sensitivity	0.25 / 0.28 µV
Adjacent channel selectivity	≥ 60 / 70 dB
Intermodulation	≥ 65 dB
Spurious response rejection	≥ 70 dB
Hum and noise	40 / 45 dB
Nominal audio power output	800 mW
Nominal audio distortion	≤ 5 %

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

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