

PD355

DMR handheld radio



Digital mobile radio never looked so good

The PD355 handheld radio excels with its stylish and compact design in smartphone format and its intuitive operation. With a weight of only 160 g, it can be carried conveniently even on long working days.

Support of analog & digital mobile radio

The PD355 was developed in compliance with the ETSI Digital Mobile Radio (DMR) standard. The handheld radio supports the conventional DMTR operation and it can also be operated as an analog radio.

Integrated antenna design

The unique integrated antenna design enables excellent availability without a large antenna on the radio.

Technical Data PD355

| Allgemeine Daten | |
|--|---|
| Frequency range | UHF: 400 - 440 MHz, 430 - 470 MHz |
| Supported operating modes | <ul style="list-style-type: none"> ▪ DMR Tier II (conventional DMR) ▪ Simulcast ▪ Analog DMR Tier II according ETSI TS 102 361-1/2/3 |
| Number of channels | 256 (128 analog + 128 digital) |
| Number of zones | 16 |
| Channel spacing | 12.5 / 25 kHz (analog) 12.5 kHz (digital) |
| Operating voltage | 3.7 V (nominal) |
| Standard battery | 2000 mAh (lithium-ion battery) |
| Battery service life (5-5-90 duty cycle) | ca. 10 h (analog) ca. 12 h (digital) |
| Frequency stability | ± 0,5 ppm |
| Antenna impedance | 50 Ω |
| Dimensions (H × W × D, without antenna) | 123 × 58 × 23 mm |
| Weight (with antenna and standard battery) | approx. 160 g |
| LCD display | monochrome LCD display, 3 lines |

| Environmental conditions | |
|--------------------------------------|---|
| Operating temperature range | - 30 °C to + 60 °C |
| Storage temperature range | - 40 °C to + 85 °C |
| ESD | IEC 61000-4-2 (Level 4), ± 8 kV (contact), ± 15 kV (air) |
| Protection against dust and moisture | IP54 |
| Shock and vibration resistance | MIL-STD-810 C / D / E / F / G |
| Relative humidity | MIL-STD-810 C / D / E / F / G |

| Transmitter | |
|-----------------------------------|---|
| Transmitting power | UHF: 1,5 / 3 W |
| Modulation | 11 K0F3E at 12,5 kHz 16 K0F3E at 25 kHz |
| 4FSK digital modulation | 12,5 kHz (data only): 7K60FXD 12,5 kHz (data and voice): 7K60FXW |
| Interfering signals and harmonics | - 36 dBm (< 1 GHz) - 30 dBm (> 1 GHz) |
| Modulation limiting | ± 2,5 kHz at 12,5 kHz ± 5,0 kHz at 25 kHz |
| Noise cancellation | 40 dB at 12,5 kHz 45 dB at 25 kHz |
| Adjacent channel selectivity | 60 dB at 12,5 kHz 70 dB at 25 kHz |
| Audio sensitivity | + 1 dB to - 3 dB |
| Nominal audio distortion | ≤ 3 % |
| Digital vocoder type | AMBE +2™ |

| Receiver | |
|---|--|
| Sensitivity (analog) | 0,22 µV (12 dB SINAD) 0,22 µV (typical) (12 dB SINAD) 0,4 µV (20 dB SINAD) |
| Sensitivity (digital) | 0,22 µV / BER 5 % |
| Adjacent channel selectivity TIA-603 ETSI | 60 dB at 12,5 kHz / 70 dB at 25 kHz 60 dB at 12,5 kHz / 70 dB at 25 kHz |
| Intermodulation TIA-603 ETSI | 70 dB at 12,5 / 25 kHz 65 dB at 12,5 / 25 kHz |
| Spurious response rejection TIA-603 ETSI | 70 dB at 12,5 / 25 kHz 70 dB at 12,5 / 25 kHz |
| Signal-noise ratio (S/N) | 40 dB at 12,5 kHz 45 dB at 25 kHz |
| Nominal audio power output | 0.4 W |
| Nominal audio distortion | ≤ 5 % |
| Audio sensitivity | + 1 dB to - 3 dB |
| Conducted spurious emission | < - 57 dBm |

All technical information was determined at the factory and in accordance with the corresponding standards. Subject to change on the basis of continuous development.



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