

PD605

DMR handheld radio



Ergonomic product design

With its compact metal housing, outstanding voice quality and support for both digital and analog radio, the PD605 will bring a breath of fresh air to your radio communication.

Versatile

The PD605 has both an analog mode and a digital mode and is compatible with analog radio systems, as a consequence it is very easy for you to change to the digital age.

GPS support (optional)

The variant with a GPS module supports applications such as Automated Vehicle Location (AVL) to optimize your workflow.

Technical Data PD605

| General data | |
|--|--|
| Frequency range | VHF: 136 – 174 MHz UHF: 400 – 470 MHz 400 – 527 MHz |
| Supported operating modes | <ul style="list-style-type: none"> ▪ DMR Tier II (ETSI TS 102 361-1/2/3) ▪ Simulcast ▪ XPT Digital Trunking ▪ DMR Tier III (ETSI TS 102 361-1/2/3/4) ▪ Analog |
| Number of channels | 32 |
| Number of zones | 3 |
| Channel spacing | 12.5 / 20 / 25 kHz (analog) 12.5 kHz (digital) |
| Operating voltage | 7.4 V (nominal) |
| Standard battery | 1500 mAh (lithium-ion battery) |
| Battery service life (5-5-90 duty cycle, high transmitting power, standard battery) | approx. 11 hours (analog) approx. 16 hours (digital) at 1500 mAh; approx. 20 hours (digital) at 2000 mAh |
| Frequency stability | ± 0,5 ppm |
| Antenna impedance | 50 Ω |
| Dimensions (H × W × D, without antenna) | 119 x 54 x 27 mm |
| Weight (with antenna and standard battery) | ca. 290 g |
| Programmable keys | 1 |

| Environmental conditions | |
|--------------------------------------|---|
| Operating temperature range | - 20 °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 | IP67 |
| Shock and vibration resistance | MIL-STD-810 C / D / E / F / G |
| Relative humidity | MIL-STD-810 C / D / E / F / G |

| GPS (optional) | |
|--------------------------|--|
| Time to first fix (TTFF) | < 1 Minute (cold start) < 10 seconds (warm start) |
| Horizontal accuracy | < 10 meter |

| Transmitter | |
|-----------------------------------|---|
| Transmitting power | VHF: 1 / 5 W UHF: 1 / 4 W |
| Modulation | 11 K0F3E at 12,5 kHz 14 K0F3E at 20 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 ±4.0 kHz at 20 kHz ±5.0 kHz at 25 kHz |
| Noise cancellation | 40 dB at 12.5 kHz 43 dB at 20 kHz 45 dB at 25 kHz |
| Adjacent channel selectivity | 60 dB at 12.5 kHz 70 dB at 20 / 25 kHz |
| Audio response (TIA-603D) | + 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 20 and 25 kHz 60 dB at 12.5 kHz / 70 dB at 20 and 25 kHz |
| Intermodulation TIA-603 ETSI | 70 dB at 12.5 / 20 / 25 kHz 70 dB at 12.5 / 20 / 25 kHz |
| Spurious response rejection TIA-603 ETSI | 70 dB at 12.5 / 20 / 25 kHz 70 dB at 12.5 / 20 / 25 kHz |
| Signal-noise ratio (S/N) | 40 dB at 12.5 kHz 43 dB at 20 kHz 45 dB at 25 kHz |
| Nominal audio power output | 0.5 W |
| Nominal audio distortion | ≤ 3 % |
| Audio response (TIA-603D) | + 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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