

TETRA - Revolutionising the way the world communicates



MTM300

Motorola TETRA Mobile Radio

The MTM300 series is one of Motorola's most flexible and versatile ranges of mobile radios. With remote, dash and desk based configurations available, this TETRA compliant unit is equally effective wherever you need it to work. Whichever version you choose, the same common benefits apply. From rugged construction and utter reliability to innovative but tried and tested technology.

- **Proven performance:** even in the toughest applications the MTM300 range will not let you down.
- **Total value for money:** tried and tested it is rugged, reliable and long lasting for maximised working life.
- **A variety of problems solved:** a comprehensive selection of applications can all be fulfilled with one fast and easy to use range of mobiles.
- **Simplifies purchasing and administrative processes:** this flexible product enables you to have a dashboard, remote or office desktop application.
- **A wide range of standard and updatable features:** all the easy to use functions you need now, and in the future.
- **Voice, data and text services supported:** offering ever more effective ways for you to communicate.
- **Integrated encryption:** providing you with secure communications.

MTM300

Motorola TETRA Mobile Radios 380-400 MHz 410-430 MHz

Voice Services Supported:

- Group Call
- Individual Call
- Emergency Call
- 4 Language support (English, German, French and Spanish)
- Short number Dialling
- Priority monitor
- Talk group scan
- Announcement talk group
- Late Entry
- Direct Mode Operation (DMO)
- Frequency efficient Direct Mode Operation (DMO)
- Duplex Telephone Interconnect with DTMF overdial
- Local Site Trunking
- Air Encryption TEA 1 and TEA 2

Non-Voice Services Supported:

- Short Data TE Service (SDS)
- Packet Data Service (PDS)
- Short Data Text Service (SDTS)
- Status Messaging
- RS232 Data Peripheral Equipment Interface
- Alphanumeric text service

General:

| | | |
|----------------------|--------------------|---|
| Dimensions HxWxD | mm | 44 x 168 x 158 (Radio only) 60 x 186 x 180 (Radio with Control Head) |
| Weight | kg | 1.38 (Radio only) 1.60 (Radio with Control Head) |
| Current Drain | Transit Receive | 4.0 amps at 12VDC 1.0 amps at 12VDC |
| Talk Groups | | 255 |
| DMO Channels | | 100 |
| Individual call list | | 50 |
| Phone call list | | 50 |

Environmental:

| | | |
|-----------------------|--|-------------------|
| Operating Temperature | | -30 to +60°C |
| Storage Temperature | | -40 to +85°C |
| Humidity | | EIA/TIA 603 (95%) |
| Dust and water | | IP 54 |
| Shock and vibration | | MIL 810 D+E |

RF Specifications:

| | | |
|---------------------------------|-------|------------------|
| Direct Mode Frequency Band | MHz | 380-400, 410-430 |
| RF Channel Bandwidth | kHz | 25 |
| Switching Bandwidth (TMO) | MHz | 5 |
| Transmitter/Receiver Separation | MHz | 10 |
| Transmitted RF Power | Watt | 3 |
| RF Power Control | | 4 steps of 5dB |
| RF Power Level Accuracy | +/-dB | 1.5 |
| Receiver Class | | B |
| Receiver Static Sensitivity | dBm | -112 |
| Receiver Dynamic Sensitivity | dBm | -103 |

All specifications use the ETS 300-394 & iETS300-113 method for measurement. All values subject to change without notice.

Important Note:

The features and facilities described in this brochure should be used for indicative purposes only. Availability of features and facilities will be dependent on Motorola's scheduled product development programme.

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Accessories include:

- Fist microphone
- Hands free microphone
- Desk microphone
- External speaker
- 1/4 wave rooftop antenna
- Din mounting installation kit
- Emergency push button
- Emergency foot switch
- External alarm kit
- External PTT switch
- Data interface junction box



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