

MIT870 paging receiver

Supplementary information
Time critical messaging



The MIT870 (synthesised) alphanumeric paging receiver is designed for professionals who need instant, reliable and detailed information on the move.

Supplied with a synthesised radio, eight receiver addresses and a large six-line, 150 character display ensures maximum effectiveness. Its bright, multi-language, menu driven display makes the MIT870 easy to use, and with multiple set-up options you can configure the pager to operate precisely the way you require.

More importantly, style has not been sacrificed over function. Using specialist shatterproof, wear and chemical resistant PC/ABS plastics ensures long-term durability. Overlapping display lens maximises display protection, making the MIT870 even more resistant to daily wear and tear. With its information services capability the MIT870 is ideal for telemetry, machine and alarm monitoring applications, extending reliable communications, safety and protection across the working environment.

Intrinsically Safe (IS) approved model

If you work in hazardous environments there are few communication options available due to safety restrictions, making it difficult to keep in touch with colleagues on the move. In a high risk environment, the ability to send precise information is critical in order to ensure rapid response, particularly in an emergency. As a result, Multitone has developed an IS version of the MIT870, which has been designed to meet exacting ATEX requirements.

MIT870 paging receiver



Key features

- Six or four-line display
- Four-line bold character display
- PLL synthesised radio
- 12.5 & 25 kHz channel spacing
- Easy to use multi-language menu driven display
- Multi-language options supported
- Eight Receiver Identification Codes (RICs) or CAP codes
- 12 information service mailboxes
- Seven selectable alert options including vibrate & silent alert
- Extended remind prompt
- Time (12 and 24 hour format)
- Date (dual date format)
- Alarm clock
- Message time stamping
- Up to 64 message memories
- Delete all & auto delete
- AAA battery (disposable & rechargeable)
- Holster, lanyard, battery & user guide included

Technical specification

Radio performance MIT872 (VHF) standard and IS variant

- Frequency range: 137.5-174MHz
- Channel spacing: 12.5/25kHz
- Sensitivity (typical for 40 character message) 512 baud: best position 7 $\mu\text{V}/\text{m}$, eight position average 10 $\mu\text{V}/\text{m}$
- Sensitivity (typical for 40 character message) 1200 baud: best position 10 $\mu\text{V}/\text{m}$, eight position average 14 $\mu\text{V}/\text{m}$
- Intermodulation rejection: 60dB
- Adjacent channel: 60dB/25kHz & 50dB/12.5kHz
- Spurious response: 50dB
- Image response: 50dB
- Spurious emission <1GHz (max): 2nW

Radio performance MIT873 (UHF) standard and IS variant

- Frequency range: 406-439-470MHz
- Channel spacing: 12.5/25kHz
- Sensitivity (typical for 40 character message) 512 Baud: best position 5 $\mu\text{V}/\text{m}$, eight position average 9 $\mu\text{V}/\text{m}$
- Sensitivity (typical for 40 character message) 1200 Baud: best position 8 $\mu\text{V}/\text{m}$, eight position average 12 $\mu\text{V}/\text{m}$
- Intermodulation rejection: 60dB
- Adjacent channel: 55dB/25kHz & 45dB/12.5kHz
- Spurious response: 50dB
- Image response: 50dB
- Spurious emission <1GHz (max): 2nW

Environmental & approvals

- Operating temperature: -10°C to +55°C
- Storage temperature: -20°C to +70°C

Operational

- Display LCD six-line: 150 (6 rows of 25 characters)
- Display LCD four-line (normal): 100 (4 rows of 25 characters)
- Display LCD four-line (bold): 64 (4 rows of 16 characters)
- Code format: POCSAG (CCIR No. 1)
- Baud rate: 512 or 1200 baud
- Receiver addresses: up to 8 RICs each with 4 function codes
- Information service addresses: 3 permitting a total of 12 information services
- Audible (typical): 85dB (peak SPL at 30cm)
- Alert options: 7 alert tones & silent alert
- Visual & vibrate alerts: red LED & internal vibrate motor
- Extended alert: 90 seconds, 2 & 5 minute intervals
- Languages: English, German, French, Dutch, Portuguese, Italian, Swiss, Spanish, Swedish, Danish, Turkish, Brazilian

Dimensions

- Size: 57mm (h) x 82mm (w) x 21mm (d)
- Weight including battery: 83g

Battery


- Size: single AAA cell (disposable & rechargeable)
- Life: up to 700 hours dependent upon operation

Accessories

- Holster, battery and user guide
- Desktop charger (rechargeable batteries only): part number P602
- 4-way master absence/charging rack: part number A3RQ
- 4-way slave absence/charging rack: part number A3RR
- Power supply: part number D3PE
- Programming unit not IS: part number P660
- Programming unit IS: part number P660X

Intrinsic Safe version

ATEX approved:

-  II 1G Ex ia IIB T3/T4
- Operating temperature: -10°C to +55°C

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