

RPT501 HF transmitter

Supplementary information

Time critical messaging



The RPT501 HF series paging transmitter has been designed specifically to interface with Multitone's Access 3000 and Access 3000 Compact paging systems. With up to five watts of output power, supporting master and slave line synchronisation it is designed to ensure robust and resilient paging communications.

Connection

A single pair line cable is all that is required to connect the encoder to the transmitter. This allows local operation via a twisted cable pair, or remote operation via a PTT line. DTMF tones switch the transmitter into different modes, allowing both analogue and digital data and speech to share the same pair line cable.

Integral line synchronisation

The RPT501 series transmitter can be synchronised to other RPT501 transmitters on the same frequency, without the requirement for a separate synchronisation unit. The RPT501 transmitters are linked via an audio-pair line and use 20kHz tone signalling to synchronise the transmitter frequencies.

Status indication and fault monitoring

LEDs provide visual indication of the transmitter status. These include Tx keyed, power and fault. Internal fault conditions are also monitored, such as high reverse power and oscillator fail. Further features include a failsafe timer to key down the transmitter automatically after 256 seconds and a phase locked local loop oscillator for consistent performance and reliability.

Easier installation and support

Transmitter set-up is configured via a standard PC or laptop, making the RPT501 HF transmitter easy to install and configure on-site. With a small footprint and extremely lightweight design this product is much easier to handle. Supplied with both mounting brackets and feet, it can be easily wall or desktop mounted.

Multiple code formats supported

The RPT501 series transmitter supports Multitone Mk7 and Mk6 paging code formats only.

Key benefits

- Easy selectable power output from one to five watts
- 25MHz to 54MHz
- Up to 100 percent duty cycle
- Multitone Mk6 and Mk7 code formats supported
- Easy to install and configure using a standard PC or laptop
- Small footprint

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Technical specification

Characteristics

- Frequency range: 25-54MHz
- Frequency stability: +/-2.0ppm, -20°C to +60°C
- Output power: up to 5W
- Duty cycle: up to 100%
- Normal load impedance: 50 Ohms
- Channel spacing: 10/12.5/20/25kHz
- VSWR protection: protection against short-term removal of the antenna (maximum of five calls with the antenna disconnected)
- Antenna options: half wave dipole or stand alone HF whip with 4m cable

Inputs

- Line input: -33 to -10dBm, 600 Ohms balanced line
- AC mains input: 100 to 240V 50/60Hz (separate power supply unit)
- DC input: 13.6V at 2.1A

Ancillary connections

- Line input: 8-Way RJ45 connector, -33 to 13dBm, 600 Ohms balanced line
- RF output: 50 Ohms N-type connector
- Auxiliary transmitter control: 15-way high density D-type connector
- Line synchronisation: 8-Way RJ45 connector, -13dBm into 600 Ohms
- Line synchronisation frequency: 20kHz

Displays & alarms

- LED indicators: standby, transmitter keyed and transmitter failed
- Alarm outputs: open collector logic fault indication

Environmental

- Operating temperature: -20°C to +60°C
- Storage temperature: -20°C to +70°C
- Code format: Multitone Mk6 & Mk7

Physical characteristics

- Size: 60mm (h) x 168mm (w) x 104mm (d)
- Weight: 650g

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Literature No: NPL085 Issue: 01



Cert No. FM20122