



RPE670 HF & UHF Serial Encoders

Machine-originated Information for Mobile Staff

The increased use and investment in computerised control and monitor systems have led to large efficiency gains, but to constantly monitor these systems is not an efficient use of resource. Multitone, using its unparalleled experience in radio communications, has developed the RPE670 Series to provide a time critical link between computerised systems and key staff, without the need for continuously manned monitor stations.

A New Solution

The integration of paging into security systems, fire panels, process controllers, building management, nurse and warden call systems has now moved a step forward with the introduction of the RPE 670 Series. This product offers a high quality, cost-effective and easy to install solution to the problem of integrating mobile communications with the growing range of computer based applications.

RS232 Coupled and Multiple Message Types

The RPE670 Series encoder enables any system with an RS232 port to send time critical information directly to an engineer or supervisory staff via a text pager. Information can be presented as either a tone, numeric or text message with 1-way speech an option.

Time Sensitive Data for Mobile Staff

The RPE670 Series allows mobile staff to remotely monitor key systems from anywhere within the workplace. The need to continuously man monitor stations is removed. Not only is greater staff efficiency achieved, but also a swift response to emergencies is obtained.

Easy to use interface

A dedicated serial port is required on the originating device and Multitone's paging protocol (MEP), TAP or ESPA 4.4.4. should be implemented. Multitone can supply a fully documented support package, to enable easy programming of equipment. In situations where either MEP, TAP or ESPA 4.4.4. protocols cannot be implemented the RPE670 Series can still provide a paging interface via Multitone's Field Configurable Protocol Converter (FCPC). This converts ASCII or a data string from an event logging port into relevant paging messages.

Features:

- . Unsupervised monitoring
- . High quality cost-effective one box solution
- . Simple to install
- . Time critical information to mobile staff
- . Serial machine interface
- . Text messaging
- . Open/closing contacts
- . Differing alert tone patterns

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Transmitter Performance

	RPE 671 (HF)	RPE 673 (UHF)
Frequency range	25 to 54MHz	420 to 470MHz
Frequency stability	+/-10ppm	+/-5ppm
Output power	2.5W	2.5W
Duty cycle	50%	50%
Normal load impedance	50	50
VSWR protection	Protection against short term removal of the antenna (maximum of five calls with antenna disconnected)	
Channel spacing	Factory set to: 10, 12.5, 20 or 25kHz	Factory set to: 10, 12.5, 20 or 25kHz
Antenna	Stand-alone base loaded HF whip with 4m cable	Rear mounted UHF stub

Standard Features

Code format	Multitone Mk6 or Mk7
Beep codes	8 (speech, non-speech, team)
Numeric Messages	Up to 10 digits (Mk6)
Alphanumeric Messages	Up to 60 characters long alphanumeric messages (Mk7)
Speech transmission	Up to 256 seconds total transmission time
Team call	Any format teams of 10, 100 or 1000 receivers
Remote contacts	8 configurable contacts (unpowered circuits, max loop resistance 150)
Computer Interface	Serial data, proprietary protocol, TAP or ESPA 4.4.4 using RS232C. Full protocol details available upon request. For details of the FCPC please contact your Multitone sales representative.

Power Input

240V 50Hz, 220V 50Hz, 117V 60Hz (into separate PSU)

Physical

Width	235mm	235mm
Depth	210mm	210mm
Height	50mm	75mm
Weight	0.75kg	1.1kg

Environment

Operating Temperature	-10°C to+55°C
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Multitone Electronic PLC

Unit 3
Geddes House
Kirkton North
Livingston
West Lothian, EH54 6GU

Tel: 01506 418198
Fax: 01506 411711

www.multitone.co.uk
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