RMR01 and RMR02
Radio Microphone Receiver Kit

The RMR01 and RMR02 Radio Microphone Receivers are self-contained high quality, fully synthesised diversity receivers, designed to fit within the ASL SAP Station Announcement Points.

Both units are identical except for the connector on the lead which connects to the SAP unit:

- RMR02: 14-way connector to be connected to SAP02
- RMR01: 6-way connector to be connected to SAP01

The Receivers enable remote (Radio Microphone) announcements to be made in addition to the SAP's standard local (Fist Microphone) announcements.

The Receivers are capable of working on ten frequencies that are selectable via a rotary switch. They fit to the SAP front panel and connect directly to the SAP PCB. They feature a LED RF signal strength meter, which is visible through the SAP front panel.

Additional circuitry for pilot tone detection prevents announcements from unauthorised transmitters. The pilot tone frequency is unique to this receiver. Thus only announcements from transmitters able to provide the same pilot tone, such as the ASL RPA01 Transmitter, are broadcast to the system, while announcements from unauthorised transmitters are blocked. This security feature can however be disabled for compatibility with transmitters that do not provide the pilot tone.

The RMR01 and RMR02 provide phantom power for mast-head amplifiers which is ideal for demanding RF environments. The phantom power is current limited so that a short circuit on one antenna does not disable the other.

Four Radio Microphone Receiver squelch levels are available to enable optimum RF set-up*. Antenna cabling connections are through twin BNC connectors.

The kit comprises the receiver and its fixing bolts/washers and is for retrofitting into SAP units supplied without receivers. Alternatively, the SAP can be supplied with the Radio Microphone Receiver fitted.

The ASL ANT04 Low Profile Antenna and ANT03 Whip Antenna are choices of antenna for use with the Radio Microphone Receiver. The ANC01 Radio Microphone Antenna Combiner unit can be used with the Radio Microphone Receiver when more than two antennae are needed to provide adequate coverage in the PA zone.

For further details, and for information on other products, please visit www.asl-control.co.uk.

* Squelch level selection is available on any SAP02 Build Standard Versions, and on SAP01 Build Standard Version 8C or later.

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SPECIFICATION

General

Supply Voltage Range ..... 12 – 18 V DC
Current Consumption
Idle ..... 245 mA@ 12 V
Max. (all LEDs on)..... 265 mA @ 12 V
Phantom Power..... 9.3 V nominal
Phantom Power Current Limit ..... 44 mA
Audio Output Level..... −10 dBu (±1.5 dB) for 22 kHz deviation, 1 kHz mod
THD..... < 1.3%
Audio Frequency Response..... 70 Hz – 18 kHz, −3 dB
Sensitivity..... Better than −107 dBm for 12 dB SINAD
Signal / Noise Ratio..... >100 dBA
Squelch Level..... 4 levels (selectable)
Status LED Thresholds
LED4 ..... −74 dBm
LED3 ..... −79 dBm
LED2 ..... −86 dBm
LED1 ..... −93 dBm
Operating Frequencies..... 10 frequencies in the Channel 70 licence free band selectable by internal rotary switch
Frequencies available from ASL on request

Dimensions and Weight

Dimensions (H x W x D) ..... 116 mm x 34 mm x 107 mm incl. connectors
Weight..... 370 g

Environmental

Temperature (Storage and Operating).... −5 °C to +50 °C
Humidity Range ..... 0% to 93% Non-condensing

CE

This equipment, when installed into the SAP according to the instructions in this document, conforms to the following EC standards:

EMC: EN55103-1, EN55103-2, EN50121-4, EN61000-6-2, EN61000-6-3

Safety: EN60065

This product is RoHS compliant.

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Link-up