

The SAP02 Station Announcement Point is housed in an IP65 vandal resistant, lockable wall-mounting box. It is designed to work with the whole range of ASL Voice Alarm and Public Address systems, and is normally used for making announcements to station platforms. The unit features indicators for 'Busy' and 'Speak Now'.

The SAP02 supersedes the earlier SAP01 Station Announcement Point and its mechanical design provides improved protection against water ingress, is more robust internally, and provides easier installation and operation. Additionally the back box has a splash protected drain hole to provide drainage of unprevented ingress of liquid.

A processor within the Station Announcement Point interfaces all LEDs and switches to the Router by means of a serial interface, while microphone audio is provided as a balanced 0 dBu (nominal) analogue signal. The unit features a built-in signal limiter to accommodate varying operator technique. The microphone's processor is also responsible for generating an outgoing low-frequency surveillance tone which is used to monitor the audio connection to the Router, while microphone capsule monitoring is performed by injection and monitoring of a signal such that either open or short circuit of the capsule or associated wiring will indicate a fault.

The SAP02 can optionally house a RMR02 Radio Microphone Receiver to enable remote (Radio Microphone) announcements to be made in addition to the SAP's standard local (Fist Microphone) announcements.

Both microphones are normally available for making announcements without prior selection, although the Radio Microphone can be disabled using a push button on the internal front panel if required. Front panel LEDs indicate whether the Radio Microphone is enabled, and whether it is being used.

The RMR02 is a high quality, fully synthesised diversity receiver, capable of working on ten frequencies that are selectable via an internally accessible rotary switch. 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 RMR02 provides 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. The SAP02 also provides a connection port for an optional remote commissioning link, which enables system commissioning from the platform using a laptop computer.

Field connections are provided on the inside rear panel of the back box by DIN rail mounted terminals.

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



SPECIFICATION

SAP02

General

Supply Voltage Range 18 – 40 V DC
Current Consumption
without RMR02 Radio Microphone Receiver
Min., all LEDs off 110 mA @ 24 V DC supply
Max., all LEDs on 125 mA @ 24 V DC supply
Current Consumption
with RMR02 Radio Microphone Receiver
Min., no announcement ... 260 mA @ 24 V DC supply
Max., all LEDs on 295 mA @ 24 V DC supply
Audio Output 0 dBu balanced (nominal)
Output Impedance 66 Ω
Microphone Control Data EIA RS485 / 19200 baud
Commissioning Port Data EIA RS485 / 9600 baud

Others

Colour Agate Grey RAL7038
Low Smoke and Fume, Zero Halogen

Dimensions and Weight

Dimensions (H x W x D) .500 mm x 150 mm x 151.5 mm
Weight 10.4 kg max.

Environmental

Temperature (Storage and Operating) -5 °C to +50 °C
Humidity Range 0% to 93% Non-condensing
Ingress Protection IP65
With door closed, and back box fixing and
cable entry holes sealed

RMR02 Radio Microphone Receiver (optional)

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 (uppermost when the Receiver is
mounted in the SAP) -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



This equipment is designed and manufactured to conform 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.

Manufacturer
Application Solutions Limited
Safety, Security and Control Division
Unit 17 - Cliffe Industrial Estate - Lewes - East Sussex - BN8 6JL - U.K.
Tel: +44(0)1273 405411 Fax: +44(0)1273 405415
www.asl-electronics.co.uk



QUALITY ASSURED FIRM
CERTIFICATE NUMBER 96-LUN-A24-01



All rights reserved.
Information contained in this document is believed to be accurate, however no representation or warranty is given and Application Solutions Limited assumes no liability with respect to the accuracy of such information.