

RadioSounder

RS-S1F Series

PRODUCT OVERVIEW

The RadioSounder from Mimes gives the power of IIoT to the field sounders, enabling sounder to only require local power. This gives you SIL capable sounders with no IO restrictions. Cyber security designed in from the core with 128-bit AES encryption. The RS-S1F is a high output, 115dB(A) wireless alarm horn sounder with a re-entrant flare horn. The robust IP66 corrosion proof 316L aluminium enclosure ensures suitability for all Zone 1, 2, 21 & 22.

Featuring 64 first stage/channel alarm sounds which can be selected via an internal switch. The alarm tone frequencies for the first 2 stages are independently selectable. Each tone can be remotely triggered e.g. via second wireless relay for second or third alarm sound. The enclosure features a threaded flame path, double cable entries, extended antenna and a large termination area – all of which significantly reduce installation time. SIL1 compliant to IEC 2010) 61508).



 **ISA100**Wireless

APPROVALS

IEC
IECEx ULD 16.0017X
IEC 60079 - 0:2011
IEC 60079 - 1:2014
IEC 60079 - 31:2013
TR-CU Ex EAC certificate: RU C-GB. AA71.B.00109
SIL1 compliant to IEC 61508 (2010)
ATEX
ATEX DEMKO 16 ATEX 1466X
EN 60079 - 0:2012 + A11 : 2013

CODING

Sounder:

II 2G Ex db IIC Gb T6 Ta -50°C to +65°C
II 2G Ex db IIC Gb T5 Ta -50°C to +70°C
II 2D Ex tb IIIC Db T85°C Ta -50°C to +70°C

Antenna:

Ex eb IIC T4 Gb T.amb -20° to +70°

PARTCODES

Version:	Partcode:	
Product type	RS	
Horn Type	S1F	Flare re-entrant horn
Enclosure	E01	GRP
	E02	Stainless Steel
	E02	Aluminium
Safety	I	Industrial/Standard
	S	SIL2
Plug material	N	Nickel Plated
	S	Stainless Steel
Equipment tag	1	Label tag
	2	SS Equipment tag
Enclosure colour	R	Red
	S	Special (contact Mimes)
Accessories	SP67-0001-A4 Pole Mount Bracket Kit 2>> ST/ST A4 (316) SP65-0003-A4 Sunshade-ST/ST A4 (316)	

NETWORK AND COMMUNICATIONS

ISA100.11a	ISM 2475 - 2400 MHz
Encyption	128 - Bit AES
Network modes	STAR/MESH/STARMESH
Latency	10 msec to 1 minute
Line of sight RF range	EX500m and Non Ex 2000m
Antenna	Omnidirectional antenna with 2.4 GHz band
Configuration and software	Bluetooth v4.2 or serial port
Communication	ISA100, Profisafe
External communication	Modbus, ProfiSafe
Standard versions	RS-S1F-ALU-I
	RS-S1F-ALU-S

SPECIFICATION

Maximum output: 115dB(A) @ 1 m +/- 3dB [106dB(A) @ 10ft/3m +/- 3dB]

Nominal output: 110dB(A) @ 1m +/- 3dB [101dB(A) @ 10ft/3m] +/- 3dB

No. of tones: 64 (UKOOA / PFEER compliant)

No. of stages: 2

Volume control: Full range

DC: 24v dc (10-30v dc)

Protection: EN60529: IP66

Enclosure material: Aluminium

Enclosure finish: Chromated & powder coated

Colour: Red (RAL3000)

Cable entries: 2 x M20 x 1.5mm

Terminals: 0.5-2.5 mm2 (20-14 AWG)

Enclosure volume: <2 litres

Wireless interface: ISA100.11a

Grounding stud: M5

Operating temp: -20°C to +70°C [-0°F to +158°F]

Relative humidity: 95% – Additional tropicalisation is recommended for applications where both high relative humidity and high ambient temperatures exist

Weight: 4.1kg/9lbs

Current Consumption

Nominal Voltage:	Voltage Range:	Nominal Current:	Max. Current:	In-rush:
24Vdc	11.5–54Vdc	185mA	221mA	815mA <4ms

