

S-QUAD

S4M AV RANGE

Sounder and Visual Alarm

S-Quad S4M range of Audio Visual (AV) devices incorporate S-Quads' industry leading EN54-23 compliant VADs, Voice or Sounder only. Providing an AV solution without the detection technology in areas requiring ceiling mounted Audio Visual Devices.



KEY FEATURES / BENEFITS

- Industry leading EN54-23 Compliant VAD
- Meets all the requirements of the Equality Act 2010
- Meets the requirements of BS 5839-1 relating to sensitivity to epilepsy, giving a true red colour
- Designed as a solution to meet the challenges of providing EN-54 Part 23 - C Class VADs in small locations such as enclosed toilet cubicles
- Voice and Sounder functions
- Customisable voice messages with extended memory capacity
- Cost effective solution when detection is not required, but when Audio Visual is
- New IP21 external moulding

TECHNICAL DATA

Operating voltage	35V - 48V			
Weight	Head only: 145g (with standard base - 205g)			
Dimensions	Head: 117mm diameter x 63mm height (with base, the height increases to 74mm)			
IP rating	IP21C			
Enclosure	Terluran GP-35 (ABS) for outer housing			
Colour	White : RAL 9010			
Approval	LPCB approved			
Storage Temperature	-20 °C to +70 °C			
Ambient operating temperature	-10 °C to +50 °C			
Relative Humidity	95 % non-condensing (+5 °C to +45 °C)			
Air Velocity for fire detection	0 to 20 m/s			
Sounder (S)	EN54-3: 2001 + A1: 2002 +A2: 2006 EN54-3: 2014 +A1: 2009			
Visual Alarm Device (VAD)	EN54-23: 2010			
Short circuit isolator	EN54-17: 2005 (section 4.8) data			
	Vmax	48 V	IC max	0.8 A
	Vnom	40 V	IS max	1.25 A
	Vmin	35 V	IL max	50 uA
	Vso max	16 V	Zc max	0.13 Ω
	Vso min	8 V		
Sounder current	2 mA average 4.5 mA maximum in Turbo mode (Refer to Battery Standby and Loop Load Calculator Tool)			

PRODUCT RANGE

PART NUMBER	DESCRIPTION	MARKINGS
S4M-VAD-LPR	S4M Low Power Red VAD	RVAD/LP
S4M-V-VAD-LPR	S4M Voice Sounder Low Power Red VAD	V/RVAD/LP
S4M-S	S4M Sounder	S

ASSOCIATED PRODUCTS

PART NUMBER	DESCRIPTION
S4-700	Base (for all S4 Sensors)
S4-705	White IP21C Plate
805580	Removal tool kit (supplied with Dust Cover Remover part)
805576	Label plate (10 pack)

VAD COVERAGE

Standard performance S-Quad S4M VAD (LPR)

Part Number	Power setting	Maximum loop current and power for the VAD only	Maximum loop current and power for the sounder	Maximum total loop current and power for the VAD and sounder	Maximum number of devices per loop	EN54-23 coverage and volume in cubic metres	
S4M-VAD-LPR	Low	6mA (210mW)	Turbo = 4.5mA (158mW)	10.5mA (368mW)	Turbo = 94	C-3-10	235.6 m ³
			Non-Turbo = 2mA (70mW)	8mA (280mW)	Non-Turbo = 133		
S4M-S	N/A	N/A	Turbo = 4.5mA (158mW)	N/A	Turbo = 177	N/A	N/A
			Non-Turbo = 2mA (70mW)		Non-Turbo = 200		
S4M-VAD-LPR	N/A	6mA (210mW)	N/A	N/A	133	C-3-10	235.6 m ³

All calculations are subject to the Vigilon Battery Calculation Tool V3.06, Comms Tool V1.36 and Compact Plus Battery Calculation Tool V3.05 (Correct versions as of 11/05/23)

COMPATIBILITY

The S-Quad S4M device range is compatible with the Main Controller Card/ Board (MCC/ MCB) and the Loop Processing Card (LPC). Please see the following table for further details:

VIGILON

≥ means greater than or equal to.	Vigilon 4 Loop	Vigilon Compact	Vigilon 1-6 Loop	
Card ->	MCC	MCB	MCC	LPC
Card version number	≥ 4.61	≥ 4.61	≥ 4.61	≥ 4.54
All S-Quad S4M range with VADs operate in 'Compliant Mode', i.e., meets EN54 Part 23	03/11/2023	03/11/2023	03/11/2023	08/11/2023

The S-Quad S4M range should be commissioned with the Vigilon Commissioning Tool ≥V1.38

Custom voice messages can be programmed into each Voice Sounder via the S4T-BASE-PROGRAM.

The legacy S4-BASE-PROGAM cannot be used to program S4T/M devices.

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