# 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:<br>145g (with standard base – 205g) | | | |
| **Dimensions** | Head:<br>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<br>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<br>4.5 mA maximum in Turbo mode<br>(Refer to Battery Standby and Loop Load Calculator Tool) | | | |

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## 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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