

Sensor Remote Devices

The Sensor Remote Device provides analog sensing information that can be collected, used in making local decisions and then logged in PACOM VIGIL CORE. The Sensor Remote Device runs on OSDP communication. Up to 16 devices can be connected to an S1000 Controller.

Each Sensor Remote Device supports onboard temperature and humidity sensing, light detection and movement detection with an accelerometer. Each device has analog/digital inputs and outputs to support integration and monitoring of third party devices.

Optional expansion is available for air quality as well as infrared remote control capabilities.



FEATURES

- Temperature and humidity sensors
- Light, movement and vibration detection
- 2 fully programmable inputs, supporting analog or digital monitoring
- 1 programmable relay output, with the option to output voltage
- Supports OSDP (up to 1000m or 3200ft)
- Auxiliary power supply output
- Optional Infrared controller or indoor air quality sensor

TECHNICAL SPECIFICATIONS

Physical	
Dimensions	80mm x 56mm (3.1" x 2.2")
Weight	50g (0.04oz)
Environmental	
Operating temperature	-40°C (-40°F) to 85°C (185°F) UL 294: -10°C (14°F) to 49°C (120.2°F)
Operating humidity	5% (0°C or 32°F) to 95% (40°C or 104°F)
Electrical	
Power consumption	Idle 20mA Maximum 60mA with relay activated and inputs terminated UL 294: 45mA at 12VDC input with full load
Inputs	0V to 10V (UL 294: NA), 0mA to 20mA or 1K to 50K monitored EOL (UL 294: 10K)
Outputs	1 relay NO or NC selectable 1A at 24V or 0V to 10V analog output (UL 294: NA)
Sensor ranges (UL 294: NA)	
Humidity	0% to 100%
Light	0.1Lux to 83KLux
Motion	3 Axis Gyroscope: 250°/sec, ±500°/sec, ±1000°/sec and ±2000°/sec 3 Axis Accelerometer: ±2g (0.07oz), ±4g (±0.14oz), ±8g (±0.3oz) and ±16g (±0.6oz)
Temperature	-40°C (-40°F) to 125°C (257°F)
Indoor air quality sensor	
Contaminating gases detected	Ethanol and hydrogen
Concentration scope detected	Ethanol = 0ppm to 1000ppm Hydrogen = 0ppm to 1000ppm
Infrared remote control	
Infrared emitters	5x directions
Infrared receiver	1x facing UP

SENSOR DEVICE FEATURE COMPARISON

	SD1-2ADI-PCB	SD1-2ADI-TENC	SD1-2ADI-EXPI	SD1-2ADI-TENM
PCB only	✓		✓	
Indoors		✓		✓
Temperature	✓	✓		✓
Humidity	✓	✓		✓
Light	✓	✓		✓
Movement	✓	✓		✓
Air quality			✓	✓
Infrared			✓	✓

COMPLIANCE AND ACCREDITATION

RoHS, RCM, FCC, CE, EN 50131

ORDERING INFORMATION

PART NO.	TYPE CODE	DESCRIPTION
320 200 110	SD1-2ADI-PCB	Analog Sensor Interface PCB only Supports OSDP, and 2 analog inputs, 1 relay output.
320 200 112	SD1-2ADI-TENC	Analog Sensor Interface in a plastic temperature enclosure
320 200 113	SD1-2ADI-EXPI	Expansion Card for the SD1-2ADI Analog Sensor Interface PCB
320 200 116	SD1-2ADI-TENM	Expansion Card for the SD1-2ADI Analog Sensor Interface PCB in a plastic temperature enclosure