



Specification Guide A1-03a

At a glance...

Internal Sensors

- Ambient Temperature
- Relative Humidity
- Vibration
- Acoustic Level
- Visible Light

INTERNAL SENSORS

Ambient Temperature

Temperature Range: -40°C to +70°C
 Temperature Accuracy at 25°C: $\pm 0.3^\circ\text{C}$
 Temperature Accuracy over Full Range: $\pm 1.4\%FS$
 Measurement Resolution: 0.01°C

Vibration

Number of Axis (averaged together): 3
 Maximum Acceleration, each axis: $\pm 2G$
 Offset Error: $\pm 10\%$
 Sensitivity Error: $\pm 10\%$
 Measurement Resolution: 0.006G

GENERAL SPECS

Physical Size

3.5 in x 3.25 in x 2 in.
 Weighs 8 oz.

Power Options

5V DC input power supply (included)
 (3) AA Batteries

Wireless

Range: 250 ft
 Topology: Mesh
 Wireless Standard: IEEE 802.15.4
 Frequency: 2.4GHz DSS
 Power Output: -79dBm

Relative Humidity

Humidity Range: 5% to 95% RH
 Humidity Accuracy at 25°C $\pm 2\% RH$
 Humidity Accuracy over Full Range: $\pm 3\% RH$
 Measurement Resolution: 0.03% RH

Acoustic Level

Range: 0% to 100%
 Resolution: 0.1%

Visible Light

Range (logarithmic): 0-64,000 Lux
 Resolution: 200 pts/Decade

Mounting Options

Wall, pole, or DIN rail (w/adapter)

Sampling Rate

User Settable 30s-24hr

Data Storage

256 Samples
 100-240V AC 50-60Hz .2A
 DC Input 4-7VDC
 (3) AA Batteries (6 month life, 5 minute sampling intervals)

Operating Environment

-40°C - 70°C , 5-95% RH

