



PILLAR

Pillar Pods™

Data Sheet

QUICK FACTS

Pillar Pods deliver 24/7 wireless environmental monitoring that not only alerts you to water damage and airborne hazards, but also gives you a paper trail that proves you did everything right when something goes wrong.

Automatic data transfer to the cloud

Remote risk monitoring

Custom thresholds and alerts

FAILURE FORECASTING

Pillar software analyzes your job site data and delivers 'failure forecasts' that alert teams in real time to job site conditions that have a high-accident probability. This improves safety in the moment as well as informing changes to reduce accident-prone situations overall.



RADIO SPECIFICATION

Standard: **915 MHz ISM**

RF Rx Sensitivity: **-140 dBm**

Tx Output Power: **4dBm+**

Standard Transmit Interval: **20 Seconds**

Transmit Count: **500,000+**

BUILT-IN SENSORS



TEMPERATURE



HUMIDITY



CARBON MONOXIDE



VOC'S



PARTICULATES



NOISE



LIGHT



PRESSURE

PHYSICAL AND ENVIRONMENTAL

Dimensions:

6.75 x 5.25 x 2.8 in

171 x 133 x 71 mm

Weight: **24 oz, 680.4g**

Environmental Rating: **IP20**

Operating Temp Range:

-4 to +158°F

-20 to +70°C

POWER

Battery:

**Non-rechargeable 18mo. Lithium
Thionyl Chloride battery**

helpful@recondynamics.com

Welcome to Effortless.

SENSOR SPECIFICATIONS



TEMPERATURE

Temperature (°F)

ACCURACY $\pm 1.8^{\circ}\text{F}$

RESOLUTION 0.018°F



HUMIDITY

Humidity

OUTPUT Relative humidity (% rH)

ACCURACY $\pm 3\%$ rH*HYSTERESIS $\pm 1.5\%$ rH*

RESOLUTION 0.008% rH

* Conditions: 20-80% rH, 77°F



PRESSURE

Barometric pressure

OUTPUT Inches water column (in wc)

ABSOLUTE ACCURACY ± 0.24 in wc

RELATIVE ACCURACY ± 0.12 in wc

RESOLUTION 0.00073 in wc



LIGHT

Ambient light

OUTPUT Foot-candles (fc)

SPECTRAL BAND 300-1000 nm

RANGE 0-6210 fc

RESOLUTION 0.0007 fc

Foot-candle (fc)	Typical Light Scenario
10,000	Direct sunlight
1,800	Hospital
100	Overcast day
30-50	Office
3-30	General OSHA required lighting minimum



NOISE

ADJUSTABLE THRESHOLD Noise occurrence over -85dBa



CARBON MONOXIDE

Carbon Monoxide

STATUS Under testing

OUTPUT Parts per million (ppm)

RANGE 0-10,000 ppm*

REPEATABILITY Less than $\pm 5\%$

RESPONSE TIME 60 seconds†

RECOVERY TIME 120 seconds†

* Conditions: 10-95% rH, 14-122°F

† Time to reach 90% saturation or base level

CO Level	Symptoms from Exposure
50 ppm	Maximum allowed by OSHA over 8 hour period. No symptoms
200 ppm	2-3 hours: headache, fatigue, dizziness, nausea
400 ppm	1-2 hours: frontal headache 3 hours: life threatening
800 ppm	45 minutes: dizziness, nausea, convulsions 2 hours: unconsciousness 3 hours: death
1,600 ppm	20 minutes: headache, dizziness, nausea 1 hour: death



PARTICULATES

Dust

PARTICLE TYPE PM2.5

PARTICLE SIZE 0.1 μm -100 μm

OUTPUT Micrograms per meter cubed ($\mu\text{g}/\text{m}^3$)

RANGE 17-300 $\mu\text{g}/\text{m}^3$

SENSITIVITY 17.5 $\mu\text{g}/\text{m}^3$ *

* Minimum baseline reading

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Welcome to Effortless.

This is not a safety device.

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