



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

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



LIGHT



PARTICULATES



NOISE



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 ±1.8°F

RESOLUTION 0.018°F



HUMIDITY

Humidity

OUTPUT Relative humidity (% rH)

ACCURACY ±3% rH*HYSTERESIS ±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

INCIDENT DETECTION OF Noise occurrence over -85dBa



CARBON MONOXIDE

Carbon Monoxide

STATUS Under testing

OUTPUT Parts per million (ppm)

RANGE 0-10,000 ppm*

REPEATABILITY Less than ±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 0.8µm-100µm

OUTPUT Micrograms per meter cubed (µg/m³)

RANGE 17-300 µg/m³

SENSITIVITY 17.5 µg/m³*

* Minimum baseline reading

This is not a safety device.

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