

# Model RW-H Area Radiation Monitor



# RadWall-H

Area Radiation Monitor

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# Model RW-H Area Radiation Monitor

## Specifications

Feature	Parameter
<b>Radiological</b>	
<i>Detector</i>	YSO(Ce) scintillator + SiPM
<i>Type of Radiation Detected</i>	Gamma; X-ray
<i>Energy Range</i>	20 keV–3 MeV
<i>Dose Rate Range</i>	1 $\mu$ rad/h–1 rad/h (0.01 $\mu$ Gy/h–10 mGy/h)
<i>Sensitivity</i>	24.6 cpm/ $\mu$ rad/h (2,460 cpm/ $\mu$ Gy/h) ( $\propto$ Cs-137)
<i>Energy Response</i>	$\leq \pm 15\%$ ( $\propto$ Cs-137)
<i>Dose Rate Linearity</i>	$\leq \pm 10\%$ up to 1 rad/h (10 mGy/h)
<i>Accuracy</i>	$\pm 5\%$ ( $\propto$ Cs-137)
<i>Alarm Threshold</i>	User-set values for dose rate: 100 $\mu$ rad/h–1 rad/h (1 $\mu$ Gy/h–10 mGy/h)
<i>Alert Options</i>	Audible (80 dB at 12 in / 30 cm) Visual (display)
<i>Alarm Response Time</i>	< 2 s
<i>Overload Display</i>	Activation when > 1 rad/h (10 mGy/h) Overload indication up to 10 rad (100 mGy/h)
<i>Display Units</i>	Gy, rad, cps
<b>Electrical and Mechanical</b>	
<i>Communications</i>	Self-forming and self-healing mesh network via ZigBee and RadSuite-Monitor (PC software)
<i>Power Supply</i>	AC 100–240 V, 50/60 Hz
<i>Display</i>	HD LCD with in (mm) characters
<i>Dimensions</i>	$\varnothing$ 6.89 x 1.97 in ( $\varnothing$ 175 x 50 mm)
<i>Weight</i>	19.0 oz (540 g)
<i>Accessories</i>	AC adapter (UL certified) IoT-Cloud (FCC ID: 2AC7P-113)
<i>Initialization Time</i>	< 10 seconds
<i>Ports</i>	Power jack, MicroUSB
<b>Environmental</b>	
<i>Operating Temperature</i>	41–122 °F (5–50 °C)
<i>Storage/Transport Temperature</i>	-4–158 °F (-20–70 °C)
<i>Relative Humidity</i>	$\leq 90\%$ (non-condensing)
<i>IP Rating</i>	IP65
<i>EMI/EMC Compliance</i>	Exceeds IEC 61526 requirements
<i>FCC Compliance</i>	FCC Part 15

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## IoT-Cloud Specifications

Feature	Parameter
<b>Electrical and Mechanical</b>	
<i>Communications</i>	MicroUSB, RJ45 (Ethernet), and ZigBee
<i>ZigBee Frequency</i>	2.4 GHz
<i>Power Supply</i>	100 mA @ 5 V DC
<i>Dimensions</i>	5.1 x 5.9 x 1.4 in (130 x 50 x 35 mm)
<i>Weight</i>	8.1 oz (230 g)
<b>Environmental</b>	
<i>Operating Temperature</i>	32–122 °F (0–50 °C)
<i>Storage/Transport Temperature</i>	-4–158 °F (-20–70 °C)
<i>Relative Humidity</i>	≤ 90% (non-condensing)
<i>EMI/EMC Compliance</i>	Exceeds IEC 61526 requirements
<i>FCC ID</i>	2AC7P-113