

CQ-14/15 Specifications

Wireless Specifications

Parameter	Value
Frequency Bands	2.406 to 2.475 GHz or 902.76 MHz to 927.24 MHz
Data Link Technology	HyperMesh/FHSS [1]
Transmit Power Level Internal Antenna	10 or 63 mW (2.4 GHz) 40 or 158 mW (900 Mhz)
Transmit Power Level External Antenna	10 or 100 mW (2.4 GHz) 40 or 158 mW (900 Mhz)
Typical Range Indoors	up to 500' (152 m) [2]
Typical Range Outside	up to 1 mi (1.6 Km) [3]
Certification	FCC 15.247 + IC RSS-210
Security	128-bit AES Encryption

[1] Frequency Hopping Spread Spectrum

[2] With external antenna and very dependent on building construction.

[3] Line of sight with external antenna.

General Specifications

Parameter	Value
Batteries	Three (3) 1.5V "AA" User-Replaceable Alkaline or Lithium
Typical Battery Life	1-2 years with 15 min. updates & 1 hr. reporting
Enclosure	Flame Retardant ABS
Weight	<6 oz (170 gm)
Operating Temp.	-20°C to +75°C
Operating Humidity	<95% Non-Condensing

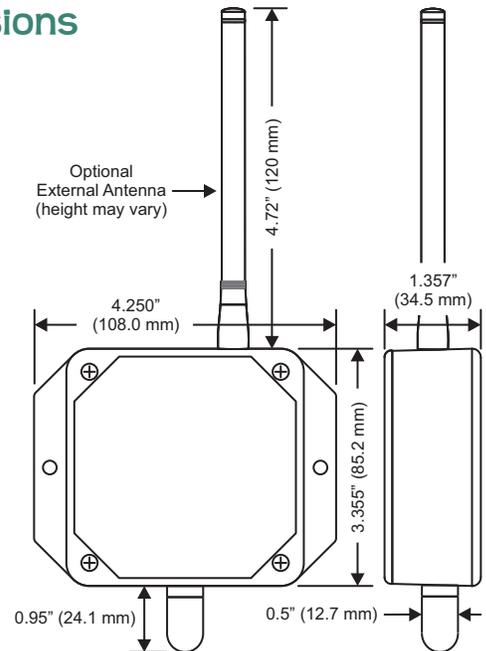
Humidity Measurement Specifications

Parameter	Condition	min	typ	max	Units
Resolution		0.4	0.05	0.05	%RH
Accuracy	typ		±2		%RH
	max	±3% (10% to 90%)			%RH
Repeatability			±0.1		%RH
Hysteresis			±1		%RH
Nonlinearity			<0.1		%RH
Operating Range		0		100	%RH
Long Term Drift	typ		<0.25		%RH/yr

Temperature Measurement Specifications

Parameter	Condition	min	typ	max	Units
Resolution		0.04	0.01	0.01	°C
Accuracy	typ		±0.3		°C
	max	±0.4° (3° to 63°)			°C
Repeatability			±0.1		°C
Operating Range		-20		60	°C
		-4		140	°F
Long Term Drift	typ		<0.02		°C/yr

Physical Dimensions



Ordering Information

	902-928 MHz	2.4 GHz
Internal Antenna:	CQ-15-90	CQ-15-24
External Antenna:	CQ-15A-90	CQ-15A-24

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