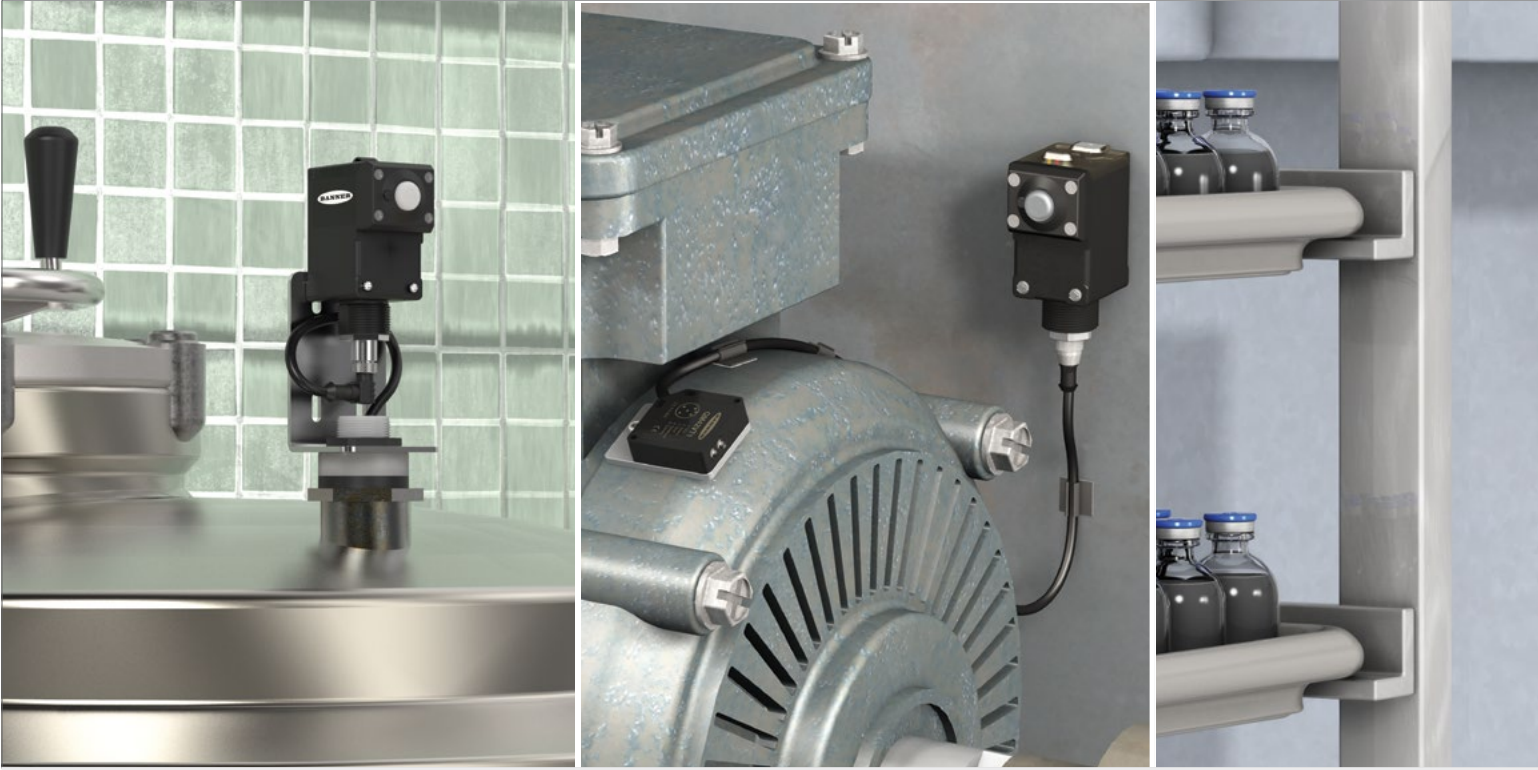


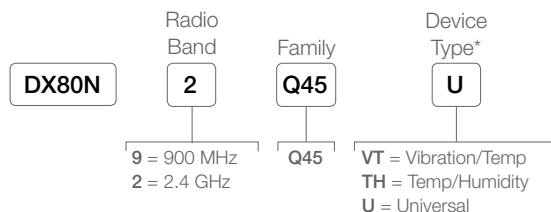
Q45 1-Wire Serial Models



Q45U, Q45VT and Q45TH

The Q45 1-wire serial nodes are designed to pair with Banner 1-wire serial sensors. The compact size, integrated lithium batteries, and built-in LED indicator light make remote monitoring easy to do.

- The Q45U is a universal 1-wire serial node that reads any Banner 1-wire serial sensor and determines an efficient power setting accordingly. It includes a red/green/yellow/blue LED to provide local indication.
- The Q45VT is designed to pair with the QM42VT1 vibration and temperature sensor; vibration thresholds can be set using dip switches and a built-in LED is pre-mapped to illuminate when a threshold has been exceeded.
- The Q45TH connects directly to the M12FTH4Q temperature and humidity sensor; sample rates can be set using DIP switches, and a red/green LED can be used to provide local indication.



* Sensor units must be ordered separately

Q45VT, Q45TH, Q45U Specifications

	900 MHz	2.4 GHz
Radio Range	Up to 3.2 Km (2 miles) with line of sight	Up to 1000 m (3280 ft) with line of sight
Minimum Separation Distance	4.57 m (15 ft)	0.3 m (1 ft)
Transmit Power	1W (25 dBm)	65 mW
Compliance	FCC ID UE3RM1809 - This device complies with FCC Part 15, Subpart C, 15.247 ETSI EN 300 328 V1.8.1 IC: 7044A-RM1809	FCC ID UE300DX80-2400 - This device complies with FCC Part 15, Subpart C, 15.247 ETSI EN 300 328 V1.8.1 (2012-06) IC: 7044A-DX8024
Spread Spectrum Technology	FHSS (Frequency Hopping Spread Spectrum)	
Default Sensing Interval	Q45VT: 5 minutes Q45TH: 64 seconds Q45U: 5 minutes	
Temperature Sensor	Measuring Range: -40 °C to +85 °C (-40 °F to +185 °F) Resolution: 0.1 °C Accuracy: ±0.3 °C	
Humidity Sensor	Measuring Range: 0% to 100% relative humidity Resolution: 0.1% relative humidity Accuracy: ±2% relative humidity at 23 °C	
Indicators	Red and green LEDs (radio function)	
Connection	One 5-pin threaded M12/Euro-style female quick-disconnect	
Construction	Molded reinforced thermoplastic polyester housing, oring-sealed transparent Lexan® cover, molded acrylic lenses, and stainless steel hardware. Q45s are designed to withstand 1200 psi washdown.	
Typical Battery Life at Default Sensing Interval	Q45VT: Up to 2.5 years Q45TH: Up to 1.5 years Q45U: 2+ years	Q45VT: Up to 3 years Q45TH: Up to 2 years Q45U: 3+ years
Environmental Rating	NEMA 6P, IEC IP67	
Operating Conditions	-40 °C to 70 °C (-40 °F to 158 °F); 90% relative humidity at 50 °C (non-condensing)	