

SureCross[®] Wireless Q45 Temperature and Humidity Monitoring Solution



Monitor temperature and humidity over long distances with ease.

The SureCross temperature and humidity monitoring solution provides a simple way to verify conditions in locations that were once too difficult to access via traditional monitoring methods. With no software required, you can replace cables and extend the range of temperature and humidity signals with minimal effort.

Easy to Apply

- Wireless Q45 Sensor Node seamlessly integrates with the Temperature and Humidity Sensor
- B2T Gateway module customized to work with the Wireless Q45 Sensor
- Temperature and Humidity or Temperature only sensor to choose from

Easy to Use

- No software needed
- Three DIP switch selectable temperature ranges
- Built-in red/green alarm indicator light

Easy to Support

- LEDs for signal strength and operational status
- Advanced expandability via Modbus RTU

sensing unplugged.[™]

Simple Temperature and Humidity Wire Replacement

Battery Life

- Two years at factory default update rate

Applications

- Coolers
- Clean rooms
- Controlled manufacturing environments
- Agriculture
- Storage facilities

Easy to Deploy

1. Set DIP switches
2. Bind radios
3. Connect Temperature/Humidity Sensor

Just follow the *SureCross Wireless Quick Start Guide* (P/N 179843)



Deterministic
PLC-Level Reliability



Signal Strength for
Site Survey



Network IDs allow
multiple systems
to coexist



Noise Immune
Frequency Hopping

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Specifications

Temperature and Humidity Sensor

Models M12FTH4Q – Temperature and relative humidity via a 1-wire serial interface M12FT4Q – Temperature via a 1-wire serial interface			
Humidity	Measuring Range: 0 to 100% humidity Resolution: 0.1% relative humidity Accuracy: ±2% relative humidity at 23 °C	Indicators	Green flashing: Power ON Red flashing: Serial Tx
Temperature	Measuring Range: -40 to 85 °C (-40 to +185 °F) Resolution: 0.1 °C	Communication Protocol	SureCross DX80 Sensor Node 1-Wire Serial Interface
Mounting Connector	M12 x 1 male Euro-style connector	Rating	IEC IP67; NEMA 6

Wireless Q45 Sensor Node

Models DX80N2Q45TH – Wireless Q45 Serial Node for use with either: M12FTH4Q – Temperature and relative humidity via a 1-wire serial interface M12FT4Q – Temperature via a 1-wire serial interface			
Radio Range	2.4 GHz (65 mW): Up to 3.2 kilometers (2 miles) ISM Band World Wide Compliance	Communication Protocol	SureCross DX80 Sensor Node 1-Wire Serial Interface
Spread Spectrum Technology	FHSS (Frequency Hopping Spread Spectrum)	Battery Life	Two years at factory default update rate
Serial Sensor Connector	M12 x 1 female Euro-style connector	Rating	IEC IP67; NEMA 6P
Indicators	LEDs: Radio Function Red/green alarm indicator light	Operating Conditions	-40 °C to 85 °C (-40 °F to 185 °F); 90% relative humidity at 50 °C (non-condensing)

Gateway

Models DX80G2M6-B2T – Gateway Module for Wireless Q45 Temperature and Humidity Sensor Node			
Radio Range	2.4 GHz (65 mW): Up to 3.2 kilometers (2 miles)* ISM Band World Wide Compliance	Wiring Access	Terminal block
Spread Spectrum Technology	FHSS (Frequency Hopping Spread Spectrum)	Interface	Indicators: One bi-color LED Buttons: One
Power	10 to 30 V dc	Operating Conditions	-40 °C to 85 °C (-40 °F to 185 °F); 95% relative humidity (non-condensing)

* Line of sight with included 2 dB antenna.

Simple Wire Replacement vs. Host Control via Modbus RTU

