Q45 Temperature and Humidity Monitoring Solution

**Parts List**

**Banner Parts**
- M12FTH4Q (25895) SureCross Temperature and Humidity Sensor
- DX80N2Q45TH (26123) SureCross Wireless Q45 Sensor Node
- DX80G2M6-B2T (88427) SureCross Gateway Board Module for a Wireless Q45 Temperature/Humidity Sensor Node

**Red Lion Parts**
- PAXDP010 (1871) Red Lion Dual Process Input Upgradeable Red Sunlight Readable Display
- PAXCD510 (1858) Red Lion Dual Setpoint Relay Output Card

Any brand of display meter works for this configuration if the meter has a scalable 4 to 20 mA input for displaying temperature and/or humidity and an optional, adjustable-threshold, discrete output for controlling the red/green alarm light on the Wireless Q45 Sensor Node.

**Overview**

This solution uses the -B2T Gateway’s two 4 to 20 mA outputs to monitor the Q45 Sensor Node’s temperature and humidity inputs. The Gateway’s discrete inputs control the LED alarm lights on the Q45 Sensor Node.

- Analog output AO1 stores and displays relative humidity
- Analog output AO2 stores and displays the temperature
- Discrete input DI1 (PNP) controls the red LED alarm light on the Wireless Q45 Sensor Node
- Discrete input DI2 (PNP) controls the green LED alarm light on the Wireless Q45 Sensor Node

See page 2 for the wiring diagram.
**INSTALLATION INSTRUCTIONS**

**DISCRETE**
- Adjustable threshold output 1 (DI1)
- Adjustable threshold output 2 (DI2)

**ANALOG**
- 4 to 20 mA scalable input 1 (AO1)
- 4 to 20 mA scalable input 2 (AO2)
- Temperature (8)
- Humidity (9)

**SCALABLE DISPLAY**
- PWR
- GND

**-B2T GATEWAY**
- 1
- 2
- 3 (Red alarm light)
- 4 (Green alarm light)
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14