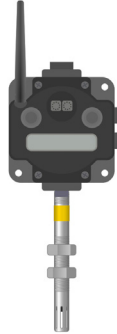


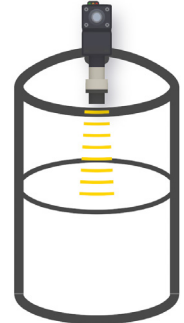
# Using the Direct Select Node to Display Sensor Values



Direct Select Node, DX80 Node, and a temperature/humidity sensor



Direct Select Node and Q45UA All-in-One Ultrasonic Sensor/Node



## Customer

**Industry** – Any application where the customer wants a simple LCD to show a specific sensor's value and/or an indication of a warning or alarm condition using a multi-colored indicator.

**Background** – Customer wants local readouts from a variety of sensors, such as ambient air temperature, remote tank levels, and compressed air system pressure, from various locations around the facility.

**Requirement** – A system that is easy to install and configure so that the devices can be easily moved when the facility reorganizes to a new operational flow. Also, a system that is easy to expand to cover additional monitoring needs.

**Challenges** – Applications are scattered throughout the facility and different people are interested in different application data.

## Solution

Direct Select Nodes are bound to a DXM Controller, along with a DX80 Node (DX80NX1S-P6) and temperature/relative humidity sensor (M12FTH4Q), an all-in-one ultrasonic sensor/Node (DX80N9Q45UAC), and an all-in-one pressure sensor/Node (DX80N9X1W-PS150G).

The sensor data is sent to the DXM Controller, which then sends it to the Direct Select Node to display the sensor values on the LCD.

Threshold values can be set in the DXM Controller so that the multi-color indicator turns yellow (warning) or red (alarm) when thresholds have been exceeded. For more detail on configuring the system, refer to the technical note [Display a Scaled Reading on a Direct Select Node](#).

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# Using the Direct Select Node to Display Sensor Values

## Why Banner?

**Value** – Affordable, easy-to-use way to display important sensor data in places where the information is most critical, whether at the location or at a supervisor's desk or a maintenance area.

- Protect personnel, processes, and critical inventory by monitoring temperature and humidity
- Avoid unplanned downtime by monitoring remote and mobile tank and tote levels
- Prevent compressor failure and identify system leaks by monitoring pressure
- Display sensor data and warning and alarm conditions with the Direct Select LCD and multi-color indicator

**Expansion** – With a wireless network backbone in place, the customer can easily add other remote monitoring applications

## Customer Benefits

- Easily monitor sensor readings by displaying them on the Direct Select Node's LCD
- Direct Select Node can provide a readout near the sensor or can be used remotely, and is completely mobile
- Battery powered and easy to deploy, no wiring needed
- Cost effective displays to support multiple sensors



DXM700-B1R1



DX80N9DSTS

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