

Indication for Maintenance Personnel

Customer

Company – Major supplier to the automotive market

Requirement – Reduce the time for maintenance personnel to respond to a request for service.

Challenges – The equipment operators would routinely have to leave their machine to look for maintenance personnel to address issues, leading to excessive equipment downtime. Additionally, the processing fluids where the radios, buttons, and lights are located has a history of egressing into industrial equipment and indicators needed to be able to survive this environment.



Solution

Because the building has many interior steel walls and divisions, there were several areas of the plant that were difficult for a typical wireless solution to operate in. Based on this, the MultiHop series was selected as the radio platform. The DX80DR9M-H15E was selected to allow for easy deployment (operates on 100–277 V ac) and has on-board inputs (signal from the K50 Touch Button), relay outputs (used to control the WLS27 harsh environment lights), and a DC power supply to operate both the sensor and the light. The network is controlled by a DXM Wireless Controller.

There are three locations in the plant where the customer wanted to announce the need for assistance. When one of the K50 Touch Buttons is activated, the DXM sends a signal to the H15E, which then turns on three WLS27 lights mounted throughout the facility. This request for assistance could be easily seen and notified the maintenance personnel quickly. The K50 Touch Button at the requesting location illuminates red to guide the maintenance personnel to the correct station. When the initiating K50 is turned off, all the WLS27 lights around the facility turn off to indicate that the situation is being addressed.

Why Banner?

Value – Faster Response Times

- Be able to identify and respond to areas of need quicker.
- Eliminate redundant responses for the same situation
- Increase up-time/availability of equipment

Expansion – With the DXM Controller in place, the customer can further capture value by adding:

- Vibration monitoring of equipment and have the system automatically trigger the Maintenance Personnel needed indicators
- Add additional monitoring tools such as:
 - Temperature and humidity monitoring of the facility
 - Tank level monitoring
 - System pressures

Customer Benefits

- Reduced machine downtime
- Increased productivity

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