



# FLUKE®

## Use Study

Industrial applications

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*“I see the Fluke wireless system as a digital clipboard, interrogating running equipment and taking readings from the installed modules. The wireless interface would speed up walkthroughs and inspections in multiple locations.”*

*“What would I use a wireless measurement system for?”*

### **Speeding up walkthroughs and inspections**

In an industrial environment, you usually have building rounds consisting of a technician walking around with a clipboard taking readings, checking equipment, etc. I see the Fluke wireless system as a digital clipboard, interrogating running equipment and taking readings from the installed modules. The wireless interface would speed up walkthroughs and inspections in multiple locations.

We have installed a new walk-in chamber and we plan on loading and unloading product at various times. Without getting too technical and using ambient temperature intrusion load calculations, I want to know what kind of temperature rise I will have with the door open for a set amount of time, so I can install an alarm if the temperature gets too warm. I would place temperature modules at the back of the evaporator bank, a module suspended in the center of the room, and one near the chamber door. Attachment points are a pipe wrap at the evaporator, a hook off of one of the lights for the center of the room, and a magnetic pad for near the door. With the DMM in the Fluke wireless system, I would set up the parameters for the study, start the data logging function on the modules, and then monitor the readings with the door open over time.

I have a pump motor that occasionally blows a fuse and I am not able to determine an obvious cause. I would set up the current module in an electrical disconnect to monitor the amps and see what causes the event—or at least the timing of the event. I would secure the module to the side of the disconnect and feed the module wires through a 1/2-inch knock-out. By the next morning, I would have the answer.

I have a critical piece of cooling equipment and through an unknown cause some of the refrigerant was lost and required charging. I was going to go out of range and needed to correct the situation immediately. All of my manifold gages were in use, so what can I do? With the Fluke wireless system, I would put a current module (flex clamp) on the compressor feed line off the disconnect, a temperature module on the suction line, and a temperature module on the discharge line. I would then take a lone refrigerant hose connected to a refrigerant container and start the charge. Using the amp readings on the compressor and temperature readings I would be able to put a correct charge in the system.

### **The Fluke Wireless System**

One central meter that receives wireless voltage, amperage and temperature readings from multiple sister meters placed in a variety of locations up to 20 meters away.

