



FLUKE®

Use Study

Industrial applications

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“The Fluke system would be a very cost effective way to measure four points of variables either in real time or by logging the data.”

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

A very cost effective way to measure four variables simultaneously

Very frequently we’re taking multiple measurements to validate equipment. A Fluke system that could wirelessly measure and/or log data from multiple sources simultaneously would be phenomenal.

The best applications for this system would be in process control. Any system with a reference signal needs to have that signal validated to make sure it’s doing what it should be. It could be a valve and I want to measure temperature and flow, or with an induction power supply I would want to monitor the inputs and outputs simultaneously to see what they are doing. We would monitor the 0-10 V or 4-20 mA dc reference signal with the base unit, while monitoring the power feedback with another dc input, and ac output voltage and/or current (this is 800 VAC RMS, 3-30 kHz in this case).

Data recorders have limited input capability, and unless you spend a lot of money, they also have limited memory and you might have to put on additional signal conditioning. Correlating the data can also be difficult. The Fluke system would be a very cost effective way to measure four points of variables either in real time or by logging the data. I could place ac current and voltage modules on the incoming and output lines and process all at the same time to very quickly validate where my problems are.

We had an induction power supply that consistently indicated it was running at 65 percent output, when, intermittently it was actually making 32 percent. It took us a year to figure out the problem and it only happened because a technician was standing next to it when it did three cycles in a row. He actually took a picture of the screen with his camera-phone to document it. The Fluke wireless system would have nailed it in short order.

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.

