



A Rockwell Automation Company

## SaskTel Mobility Wireless Communication Demo Panel

### The Client:

SaskTel Mobility is well established as Saskatchewan's complete wireless solutions provider offering a wide range of services such as paging, cellular, FleetNet, satellite, and wireless data. SaskTel Mobility is a division of Saskatchewan

Telecommunications Holding Corporation and an affiliate of SaskTel.

### The Requirement:

SaskTel Mobility's sales force required a demonstration panel for use at trade shows or to bring to customer sites to show that a wireless data communication solution was viable for the industrial data collection marketplace. Typical clients include power utilities, pipeline companies, oil production sites and water distribution utilities. The demonstration panel required several common Remote

Terminal Units (RTUs) used by the most common potential clients as well as a master software host to display the data and show the potential of wireless data collection.

### The Design Solution:

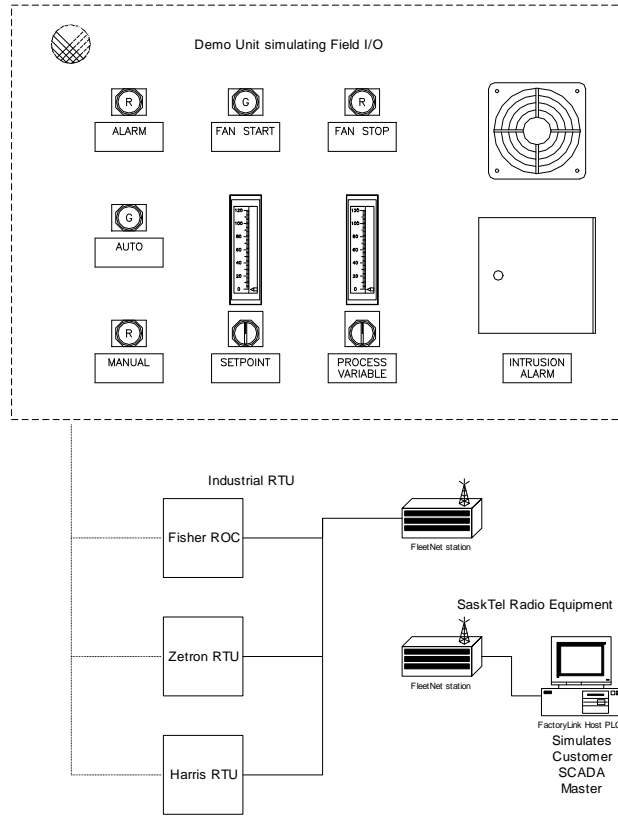
The demonstration unit consisted of two parts, an RTU panel that had several local display functions and interfaced to the three different RTUs, thus simulating a typical field installation, and a personal computer running US Data's FactoryLink HMI software package, simulating a remote host. The panel had push buttons, a potentiometer for 'local' control, a number of pilot lights, and an analog LCD bar graph. The RTUs were connected to the panel with a multi-conductor cable and the radio was then connected to the RTU. The host PC side had a radio connection as well and the demo panel status was displayed on the FactoryLink screens. Control could be performed from either the

local panel or remotely from the PC. The status of all changes were shown at both locations. The panel interfaced to a GE-Harris (Westronics) RTU, a Zetron RTU, and a Fisher ROC RTU. The degree of functionality implemented at each RTU differed depending on the capabilities of each RTU. For example, the GE-Harris RTU did not have an analog interface.



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### System Specifications:

- 3' by 2' demonstration panel with embedded Allen-Bradley MicroLogix PLC
- Interface to three RTU types
- Wiring harnesses for each of the supported RTUs – GE/Harris (Westronics), Zetron, Fischer ROC
- Pentium 120 laptop PC running Windows NT 4.0
- FactoryLink NT unlimited tag version
- 6 demonstration screens
- Ericson/GE data-capable radios
- DNP 3.0 third party modem for GE-Harris RTU
- Communication at 9600 baud over FleetNet radio system

For further information or to contact a Hinz office near you, please check our website at:

[www.hinz.com](http://www.hinz.com)