

The Thermo Scientific Wireless Xpert (WX) connects online analyzers to the Operator Console (OpCon) as well as to mobile terminals wirelessly, eliminating the use of fiber optic cable and copper wire. Thus, users can significantly decrease their installation and maintenance costs while increasing mobility. Users can also interconnect system components that are remote from the plant LAN.

WX (Wireless Xpert)

Wireless Network for Thermo Scientific Instrumentation and Data Terminals



Features

- Firewall for added security
- Solar power options
- PDA and laptop compatible
- Unlimited transmission distance capability

Benefits

- Expands mobility of data displays
- Supports a variety of mobile terminals
- Reduces installation and maintenance costs associated with cables
- Increases versatility and allows you to receive information anywhere
- Makes troubleshooting easier
- Improves system availability

The Thermo Scientific Wireless Xpert (WX) simplifies instrument connectivity and communications while broadening installation flexibility and data availability for online analyzer systems used in the cement, coal and minerals industries. It simply connects an online analyzer system with the OpCon, minus the wires or fiber cables, by using radio modems. The system uses radio modems to transmit and receive data and can also communicate with mobile terminals in vehicles.

The WX transmits product quality information through its web-based server to remote and mobile terminals such as PCs, PDAs, notebook computers and laptop computers. Users can easily incorporate

any or all of these terminals simultaneously on the WX network. The system is versatile too. Users can opt for a completely wireless network or include a combination of copper and fiber cable and wireless connections on our analyzers.

Applications

WX can support two applications either individually or simultaneously.

- The analyzer application incorporates only hardware components and connects an analyzer to the OpCon.
- The data terminal application incorporates software and hardware to connect fixed and mobile terminals to the OpCon.

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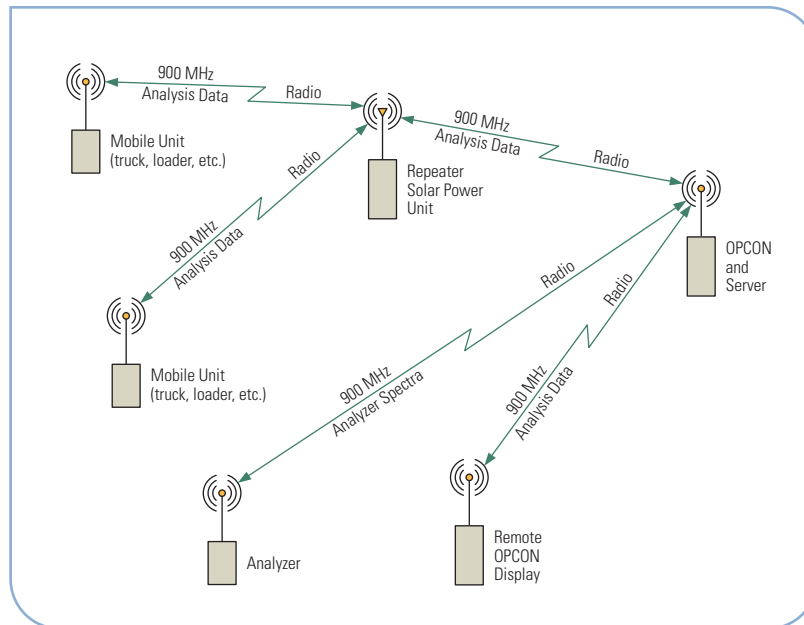
General Specifications

Radio Modem	Complies with part 15 of FCC rules 902 MHz to 928 MHz, frequency hopping 115.2 k baud direct transmission 57.6 k baud with repeaters -40°C to +75°C (-40°F to +167°F) operating temperature range
Antennae Options	Yagi: 24-in long, 10 dB gain, 50° horizontal, 45° vertical, 125 MPH wind rated Pole: 65-in tall, 6 dB gain, Omni directional, Whip: 16-in tall with 9.6-in diameter ground plane, 5 dB gain, Omni directional
Surge Protection	BELLCORE 1089 10/1000 μ s @ 100 A
Junction Box and Firewall	Wireless connection: IEEE 802.11b; IEEE 802.11g Wired connection: 10 BASE-T; IEE 802.3
Security	Supports WEP, WPA, and WPA2 encryption for secure wireless networks

Electrical Specifications

Power	90 VAC to 260 VAC 9 VDC to 18 VDC
Solar Panel System	50 watts maximum per panel 5 panels maximum 20 V maximum open ckt. 10 A battery controller with temperature compensation

WX Sample Network



Network Hosting Applications

1. Analyzer to OPCON Spectra and Control Communication
2. Analysis and Process Data Dissemination

Network Employing Four Subsystem Configurations

- A. Mobile Terminal
- B. Repeater
- C. Analyzer
- D. Office Terminal

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