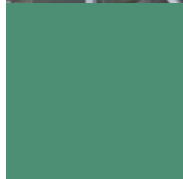


The Thermo Scientific Wireless Xpert (WX) connects online analysis systems to the user interface as well as to mobile or remote terminals wirelessly, eliminating the use of fiber optic cable and copper wire. Users can significantly decrease installation and maintenance costs while increasing mobility.

## Thermo Scientific Wireless Xpert (WX)

### Wireless Network for Instrumentation and Data Terminals



#### Features

- Firewall for added security
- Solar power options for repeaters
- PDA and laptop compatible
- 300 mw output power
- Virtually unlimited transmission distance capability using repeaters

#### 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 analysis systems used in the cement, coal and minerals industries. It simply connects an online analysis system with the user interface, minus the wires or fiber cables, by using radio modems. The system can also communicate with optionally supplied mobile or remote terminals.

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 Thermo Scientific analyzers.

#### Applications

WX supports two main applications either individually or simultaneously.

- The analyzer application incorporates only hardware components and connects a Thermo Scientific online analyzer to its user interface
- The data terminal application incorporates software and hardware to connect fixed remote and mobile terminals to the user interface

## Thermo Scientific Wireless Xpert (WX)

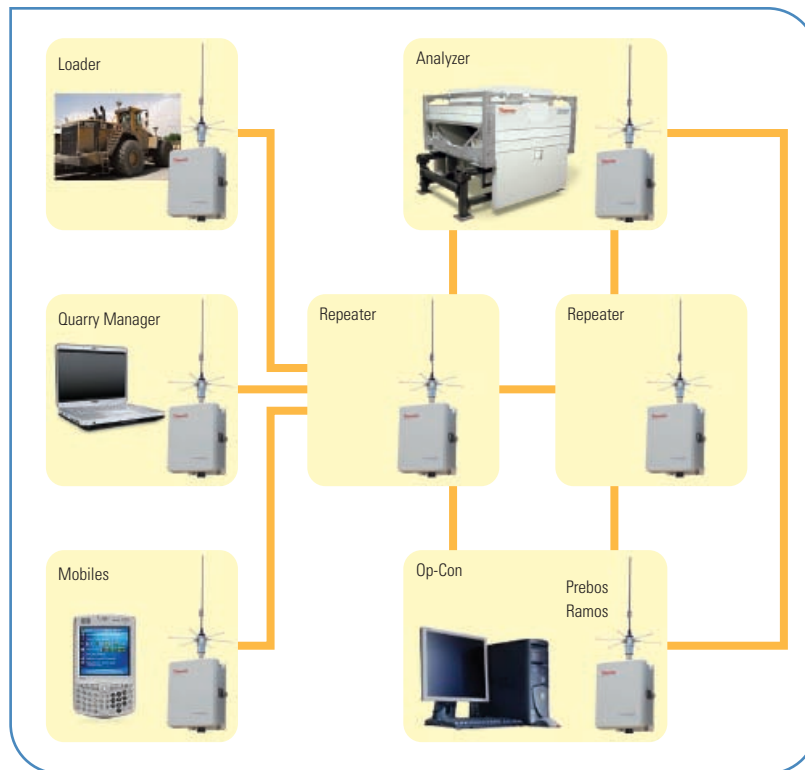
### General Specifications

Radio Modem	Complies with part 15 of FCC rules 2.4 GHz (2.412 to 2.462), Direct sequence spread spectrum Uses Mesh Network for communication Operating Temp Range: -40°C to +65°C (-40°F to +150°F)
Antenna Options	Directional (15dBi Gain) – Point to point Omni – Pole (9dBi Gain) – Multipoint application Omni – magnetic mount (7 dBi Gain) – Mobile Applications
Surge Protection	BELLCORE 1089 10/1000 $\mu$ s @ 100 A
Junction Box and Firewall	Wireless connection: IEEE 802.11b; IEEE 802.11g Wired connection: 10 BASE-T; IEE 802.3
Security	Radio uses proprietary network Supports WEP, WPA & WPA2 encryption to secure wireless networks

### Electrical Specifications

Power	12 VDC (115 VAC to 12 VDC)
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### 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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