Crystal Ball
Remote Telemetry Unit

The OmniSite Crystal Ball doubles as both a Cellular Pump Station Monitor and a Backup Pump Controller, making it the perfect solution for monitoring critical or remote applications. Your connected equipment and machinery is completely monitored over the Internet, and comes with our FREE GuardDog software. If an abnormal condition occurs, alarms are sent by e-mail, text message, or voice call to any location.

Applications

The OmniSite Crystal Ball is applicable to pump stations, lift stations, plus other applications in need of trend analysis and pump control. The Crystal Ball is a flexible, easy to install and configure, powerful controller/monitor. Its single integrated controller eliminates the need for multiple PLCs, radios, software, computers, modems, relays and other accessories. The complete packaged unit can be installed in under four hours, requiring only basic wiring knowledge.

The Crystal Ball includes OmniSite's "plug and play" GuardDog web interface, which eliminates the need for custom programming.

Features

• Immediate alarm reporting
• Machinery Operational Data reporting - every 15 minutes using the Elite Data package or every 24 hours using Standard Data Package
• True SCADA replacement at a fraction of the cost

• Perfect solution for monitoring critical or remote applications
• Advanced Internet based monitor, analyzer and controller
• Comes with the OmniSite Modular Radio (OSMR)

Order Information

Part Number: U-CB   See page 32-33 for optional device modifications.

Please Note: *This device comes standard as a panel mount model. Panel mount models require an external antenna. Please see options below.*

High Gain Directional Antenna (page 36) with the correct length of coax cable (page 38).
Phantom Antenna (page 37) with coax cable (page 38).

If you order this device as an enclosure mounted model, it comes standard with an internal antenna. However, the above external antenna options are available as upgrades.

Specifications

Input Power	120VAC +/-10% @ 0.3A max; 12VDC Version: 12VDC +/-10% @ 2.1A max
Cellular Radio	4G LTE CAT-1/CAT-M1, OSMR
Access Key	Smart security key to identify personnel on site
Terminal Blocks	Removable style accepts #14-18 AWG solid or stranded wire
Operating Temp/ Humidity	-20/150 Deg F / 0-90% RH Non-condensing
Backup Battery	Internal 12VDC Sealed Lead Acid, 800mAH, Rechargeable
Dimensions	9.0"H x 9.5"W x 4.0"D (dimensions do not include an antenna attached)
SD Card Format	FAT 16
LCD Display	Backlit 4 x 20 lines
Keypad	(8) navigation buttons
Analog Inputs	(4) 4-20mA, input 1 isolated, 10 bit resolution
Relay Outputs	(4) 20A @ 120VAC resistive
Digital Inputs	(14) Universal Inputs accept 12 VAC/VDC – 120 VAC/VDC
Protections	US Patent #7,228,129 and #7,778,633

Wiring

Cellular Remote Monitoring Device
Crystal Ball Pump Analyzer and Backup Pump Controller - Interface Connections