



## XR50 Remote Telemetry Unit

The OmniSite XR50 is perfect for monitoring digital alarm inputs and analyzing trends at a lift station. With the ability to record pump runtimes, GPMs, pump cycles, and more, the XR50 is the advanced solution for monitoring both critical and remote applications. Your connected equipment is completely monitored over the Internet, and comes with our FREE GuardDog software. If an abnormal condition occurs, alarms are sent by email, text message, or voice call to any location.

## Applications

The OmniSite XR50 is applicable to pump stations, lift stations, plus other applications in need of trend analysis. The XR50 is a flexible, easy to install and configure, powerful equipment alarm monitor. This single integrated device 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 XR50 includes OmniSite's "plug and play" GuardDog web interface which eliminates the need for custom programming.

## Features

- Microprocessor based alarm monitor
- Pulse counter totalization feature
- Daily reports of accumulated equipment runtime
- True SCADA replacement at fraction of cost/complexity
- Cellular coverage works where private radio systems cannot reach
- Comes with the OmniSite Modular Radio (OSMR)

## Order Information

**Part Number: U-XR50** See page 32 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

<b>Input Power</b>	120VAC +/-10% @ 0.3A max; 12VDC Version: 12VDC +/-10% @ 2.1A max
<b>Cellular Radio</b>	4G LTE CAT-1/CAT-M1, OSRM
<b>Access Key</b>	Smart security key to identify personnel on site
<b>Terminal Blocks</b>	Removable style accepts #14-18 AWG solid or stranded wire
<b>Operating Temp/ Humidity</b>	-20/150 Deg F / 0-90% RH Non-condensing
<b>Backup Battery</b>	Internal 12VDC Sealed Lead Acid, 800mAH, Rechargeable
<b>Dimensions</b>	9.0"H x 9.5"W x "3.5D (dimensions do not include an antenna attached)
<b>SD Card Format</b>	FAT 16
<b>LCD Display</b>	Backlit 2 x 16 lines
<b>Keypad</b>	(4) navigation buttons
<b>Digital Inputs</b>	(10) Inputs accept 12 VAC/VDC – 120 VAC/VDC
<b>Protections</b>	US Patent #7,228,129 and #7,778,633

# Wiring

**Wireless Remote Monitoring Device XR50 Interface Connections**

Field Terminal Strips - Any signal 12 VDC/VAC through 120 VDC/VAC. No polarity required. Typical for Inputs 1-10.

**NOTE:** Different voltages can be applied to different input channels as needed (i.e. don't all have to be the same voltage)

Note: Field Installed Jumpers

**EXAMPLE PUMP MOTOR CONTROL PANEL**

120 VAC Input Power 0.3 amps max  
\*For 12 VDC powered units, please contact Omnisite tech support

**XR50 Universal Input Board**

- (A) Dedicated alarm inputs (Inputs 1, 2, 3, 4)
- (B) User selectable alarm input or rain gauge (Input 5)
- (C) User selectable alarm input or pulse counter (Inputs 6, 7)
- (E) Reserved for pump 1, 2, 3 runtime accumulation (Inputs 8, 9, 10)
- (F) Battery backed 12 VDC power supply (+, -)