Manuals+ — User Manuals Simplified.

OMNTEC PROTEUS-X Series Tank Gauging and Leak Detection System Instruction Manual

Contents

OMNTEC PROTEUS-X Series Tank Gauging and Leak Detection System

INSTRUCTION MANUAL

We have upgraded our dependable PROTEUS Series with advanced technology, versatility, scalability and new features like a capacitive touch screen display, 5 built in programma-ble relays and built in VPN capability. The PROTEUS-X Series can monitor multiple parameters, including product levels, water levels, temperature, leaks and more in up to 40 tanks simultaneously. This flexibility makes PROTEUS perfect for various tank gauging and leak detection applications.

The PROTEUS-X can accept up to 64 OMNTEC Bright Eye (BX Series) sensors, which are excellent for distinguishing between product and water or detecting liquid presence. These Bright Eye sensors are networked and utilize 4-wire bus technology, providing a distinct advantage.

BX Series sensors come equipped with a built-in micropro-cessor that enables each sensor to self-identify and provide its location. This information is readily displayed alongside alarm conditions on the PROTEUS's 7-inch color capacitive touch screen graphic display.

With OMNTEC's proven reliability, the PROTEUS offers an attractive, comprehensive, and user-friendly system that opens the door to endless possibilities.

OMNTEC® Mfg., Inc. has been certified by DQS Inc. to ISO 9001:2015 BR#10017970.

FEATURES

- Accepts up to 40 magnetostrictive probes
- Accepts up to 64 Bright Eye sensors
- Sensors networked using state of the art 4 wire bus technology
- Color 7-inch graphic display with capacitive touch screen
- Large user-friendly icons
- Easy to read leak and level alarms
- Built in web server
- Built in VPN capability
- Flash based non-volatile memory for program storage (does not require a battery)
- 1 RS-232 port
- Up to 2 configurable RS-232/RS-485 ports (1 standard, 1 optional)
- Ethernet / TCP/IP standard
- E-mail / Text capability standard

– EXPANDABLE TO MEET SITE REQUIREMENTS NOW & IN THE FUTURE
– COST EFFECTIVE & COMPLIANCE FOCUSED

- Thermal printer option or network printing capable
- Up to 5 built in programmable relays
- Up to 32 additional dry contact relays
- SD memory card slot for system backup and historical reports
- VLD standard
- CITLD upgradeable
- MODBUS RTU & TCP upgradeable
- Remote display option
- Compatible with Tank Active™ remote tank inventory monitoring app
- Remote software update capable

FRONT VIEW

LEFT VIEW   RIGHT VIEW
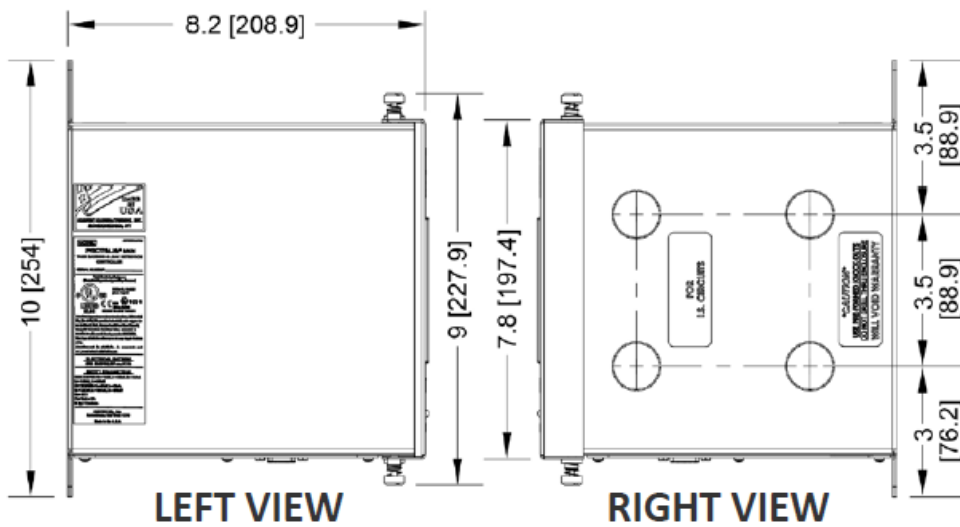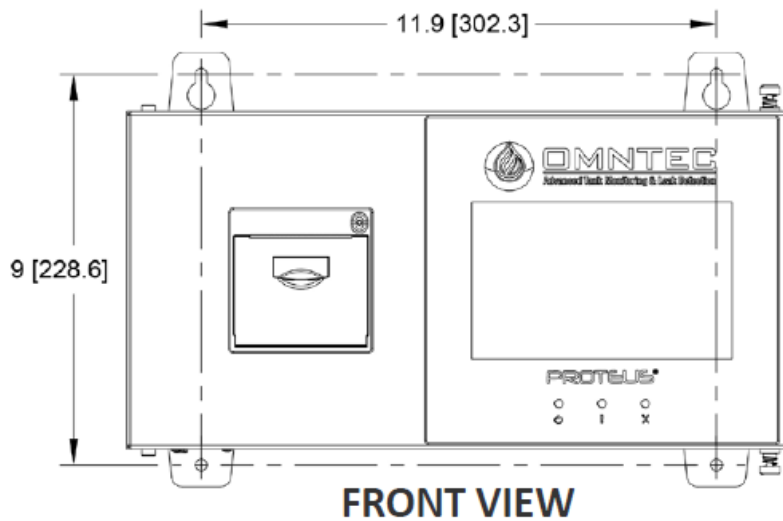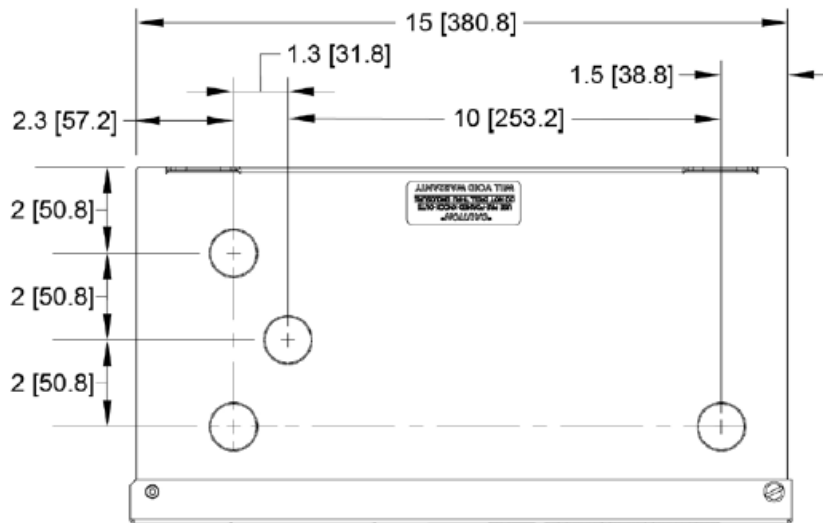
TOP VIEW
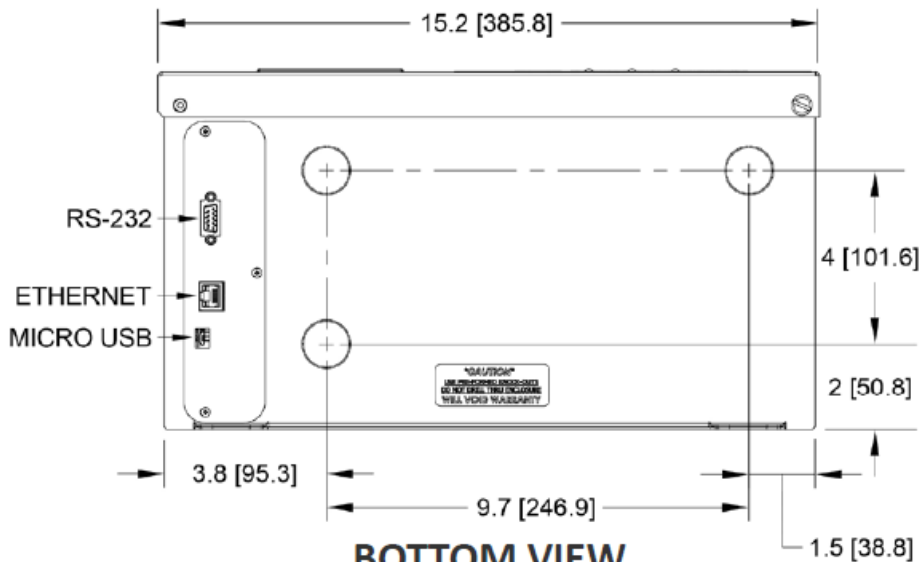
BOTTOM VIEW

SPECIFICATIONS

Input Power	100-240 VAC +/- 10% 50/60 Hz 60 watts
Voltage to Sensors	12 VDC
Voltage to Probes	28VDC
Display Audible alarm Printer System status	Color 7-inch graphic display with capacitive touch screen 85 dB piezoelectric horn 36-character thermal 3 LED's (Power, Warning, Alarm)
Relay Outputs	5 standard, 6A- 30 VDC / 250 VAC RES
Low-voltage Outputs	12 VDC @ 225 mA

Operating Temperature	20 to 140° F (-7° to 60° C)
Standard Communications	TCP/IP I RS-485 I RS-232
Models Available	OEL8000IIIX-5 OEL8000IIIXP-5 (with printer)
Optional Features	CITLD Upgradeable I Mod bus RTU and TCP I Tank Active'M App
Compatible Sensors	BX-Series sensors (refer to document no. 900106)
BX-Series Sensor Cable	OMNTEC EC-4 – 4 conductor 22 AWG shielded twisted pair cable with drain or e quivalent. Maximum length 2,000 feet (610m).
Compatible Probes	MTG-RS Series Rigid Gauging Probe (refer to document no. 900194) MTG-FL Series Flexible Fixed Top Probe (refer to document no. 900166) MTG-FB Series Flexible Fixed Bottom Probe (refer to document no. 900162)
MTG Probe Cable	OMNTEC EC-2 (Belden 8761) – 2 conductor 22 AWG shielded twisted pair cable with drain. Low Inductance: equal or less than 0.2 microhenries per foot. Maximum length 1,000 feet (305m). Consult factory for longer wire runs.
Accessories	MMRD7 Series Mini-Me remote display DDL Series Delivery Defender Lite universal remote overfill alarm RAS Ser ies Remote annunciators PS-103 Thermal printer DPU-6PK Thermal paper XB-416 4 probe 16 leak sensor output board (1 included in base model) XB-400 4 probe output board XB-800 8 probe output board XB-RB8 8 relay output board rated at 5 amps 120 VAC X232-420 External RS-232 to 4-20 mA converter MB-232/485 Configurable RS-232 or RS-485 option board C232-BAC RS-232 BACnet TCP/IP converter C485-BAC RS-485 BACnet TCP/IP converter WRS-232 Wireless link
Enclosure Type	UL Type 1
Weight	18 lbs. (8.16 kg)
Dimensions	(h) 10.0″ (w) 15.2″ (d) 8.2″
Approvals	UL-listed, CUL-listed, ATEX, IECEx

PROTEUS-X Application

OEL8000IIIXP-5

RAS-4 Hi Level Alarm

Computer

One 4 wire run networks up to 16 BX Series Sensors
(additional sensors require additional wire runs, up to 64 sensors)

BX Series Sensors

MTG Series Probes

Up to 4 MTG Series Probes
(expandable to 40)
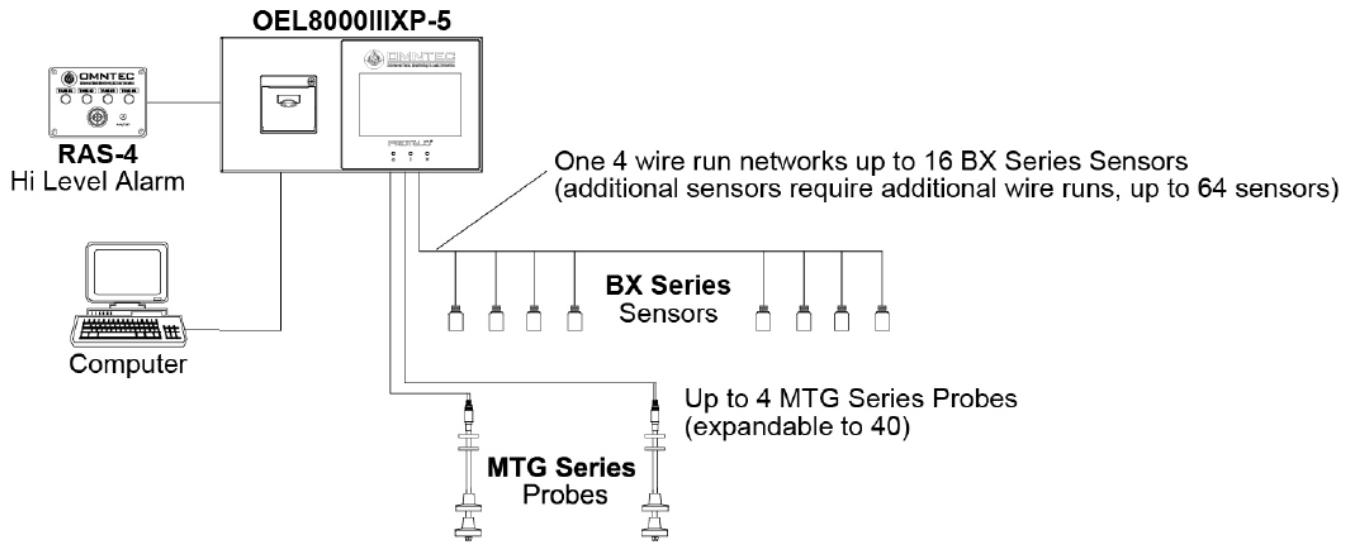
MNTEC
9 OMNTEC Mfg., Inc.
2420 Pond Road,
Ronkonkoma, NY 11779
+l.631.981.2001
+l.631.981.2007
omntec@omntec.com

 www.omntec.com

FAQ:

Q: How many sensors can the PROTEUS-X Series accept?

A: The PROTEUS-X can accept up to 64 OMNTEC Bright Eye (BX Series) sensors.

Q: What communication protocols are supported by the system?

A: The system supports TCP/IP, RS-485, and RS-232 communication protocols.

Q: Are there optional accessories available for the PROTEUS-X Series?

A: Yes, there are optional accessories like remote displays, overfill alarms, and output boards available for enhanced functionality.

Documents / Resources

OMNTEC PROTEUS-X Series Tank Gauging and Leak Detection System [pdf] Instruction Manual
PROTEUS-X Series, PROTEUS-X Series Tank Gauging and Leak Detection System, Tank Gauging and Leak Detection System, Gauging and Leak Detection System, Leak Detection System, Detection System, System

References

- [**User Manual**](#)