## Description

A brighter future in tank gauging and leak detection has arrived with the **PROTEUS** Series. Featuring advanced technology, versatility, scalability, and enhanced features like our 7-inch color touch screen. The **PROTEUS-X** Series can simultaneously monitor product levels, water levels, temperature, leaks, and much more in up to 40 tanks. The flexibility of PROTEUS makes it ideal for a variety of gauging and leak detection applications.

The OEL8000IIIX accepts up to 64 of OMNTEC's Bright Eye (BX Series) sensors for distinguishing product from water or for simply detecting the presence of liquid. A distinct advantage of Bright Eye sensors is they are networked and utilize 4 wire bus technology.

**PROTEUS** does not require sensor or probe input modules, bringing ease to ordering and installation. A built in microprocessor gives each sensor the ability to identify itself and its location, which is displayed along with alarm conditions on the **PROTEUS's** 7-inch color touch screen graphic display.

With OMNTEC's proven reliability, the **PROTEUS** offers an attractive, comprehensive, and user-friendly system that can open doors to endless possibilities.
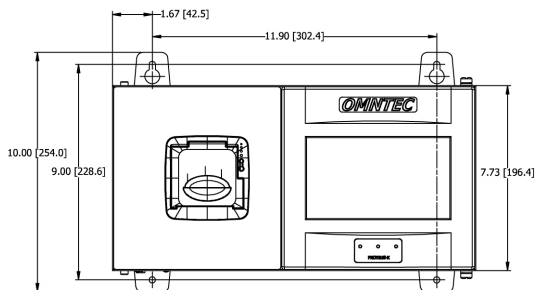
## Features

- Accepts up to 40 magnetostrictive probes
- Accepts up to 64 Bright Eye sensors
- Sensors networked using state of the art 4 wire bus technology
- (1) RS-232 port
- (1) RS-485 port
- 7-inch color touch screen graphic display
- Large user friendly icons
- Easy to read leak and level alarms
- SD memory card slot (for extended logging)
- CITLD upgradeable
- Modbus RTU & TCP upgradeable
- Ethernet / TCP/IP standard
- Built in web server
- E-mail / Text capability standard
- SIL rated operating system
- Remote display option
- Thermal printer option
- VLD Standard
- 3 built in programmable relays
- Up to 32 additional dry contact relays
- Flash based non-volatile memory for program storage (does not require a battery)
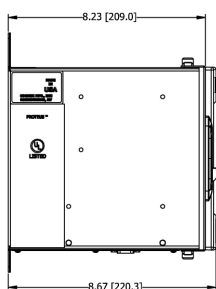- Compatible with OMNTEC PC remote tank inventory monitoring

# PROTEUS®

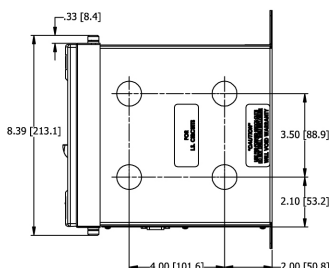## Automatic Tank Gauging and Leak Detection System
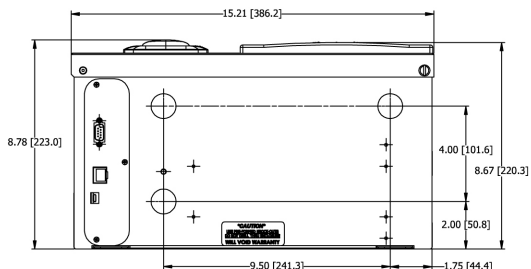### Part No. OEL8000IIIX

**FRONT VIEW**

**LEFT VIEW**

**RIGHT VIEW**

**BOTTOM VIEW**

## OEL8000IIIX Application

OEL8000III-X

OMNTEC

COMPUTER

One 4 wire run networks up to
16 BX sensors on each bus

BX sensors

Up to 40
MTG probes

| Specifications | |
|---|---|
| **Optional Features:** | 36-character thermal printer<br>Modbus RTU and TCP<br>CITLD upgradeable<br>OMNTEC PC software |
| **Input Power:** | 100-240 VAC +/- 10%<br>50/60 Hz 50 watts (optional 12 VDC power) |
| **Power to Sensors:** | 12 VDC @ 125 mA max |
| **Power to Probe:** | 28 VDC |
| **Audio Visual Controls:**<br>Display:<br>Audible alarm:<br>Printer:<br>System status: | <br>Color 7-inch graphic display with touch screen<br>85 dB piezoelectric horn<br>36-character thermal<br>3 LED's (OK, fault, alarm) |
| **Built In Relay Outputs:** | 120 VAC @ 0.6 amp resistive<br>3 SPST Failsafe |
| **Low-voltage Output:** | 12 VDC @ 150 mA |
| **Operating Temperature:** | 20 to 140° F (-7° to 60° C) |
| **Compatible Sensors:** | BX-Series sensors *(refer to document no. 900106)* |
| **BX-Series Sensor Cable:** | Shielded 22 AWG with drain wire (OMNTEC EC-4)<br>*Maximum length 2,000 feet (610m)* |
| **Compatible Probes:** | **Rigid Gauging Probe** *(refer to document no. 900194)*<br>MTG-4* (1219mm)<br>MTG-6* (1829mm)<br>MTG-8* (2438mm)<br>MTG-10* (3048mm)<br>**Flexible Fixed Top Probe** *(refer to document no. 900166)*<br>MTG-F-* Series<br>**Flexible Fixed Bottom Probe** *(refer to document no. 900162)*<br>MTG-FB-* Series<br>*Number signifies shaft length and corresponds to tank diameter.*<br>*Contact representative for additional lengths.* |
| **MTG Probe Cable:** | OMNTEC EC-2 (Shielded Belden #8761)<br>Low Inductance: equal or less than 0.2 microhenries per ft.<br>Maximum length 1,000 feet (305m)<br>Consult representative for longer wire runs. |
| **Accessories:** | RD7CTS    Mini-Me remote display<br>DDL Series    Delivery Defender Lite universal remote overfill alarm<br>RAS Series    Remote annunciators<br>PS-103    Thermal printer<br>DPU-C    Thermal paper<br>XB-416    4 probe 16 leak sensor output board<br>XB-400    4 probe output board<br>XB-RB8    8 relay output board rated at 5 amps 120 VAC<br>C232-BAC    Bacnet TCP/IP converter<br>X232-420    External RS-232 to 4-20 ma converter |
| **Weight:** | 20 lb. (9kg) |
| **Dimensions:** | (h) 7.75" (w) 15.25" (d) 8.78"<br>*Depth dimension includes printer and bezel* |
| **Approvals:** | UL-listed & CUL-listed<br><br>c UL US LISTED 5L04<br>IECEx UL 13.0057X [Ex ia Ga] IIB<br>CE 0539 ⟨Ex⟩ II (1) G [Ex ia] IIB<br>DEMKO 13 ATEX 1341071X |

*Specifications subject to change without notice, verify with manufacturer.*