OMNTEC
Advanced Tank Monitoring & Leak Detection

PROTEUS®
Automatic Tank Gauging and Leak Detection System

Part Number: OEL8000IIIK4
OEL8000IIIK8

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-K Series can simultaneously monitor product levels, water levels, temperature, leaks, and much more in up to eight tanks. The flexibility of PROTEUS makes it ideal for a variety of gauging and leak detection applications.

The OEL8000IIIK accepts up to 16 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.
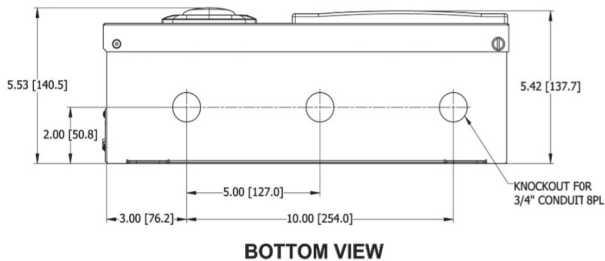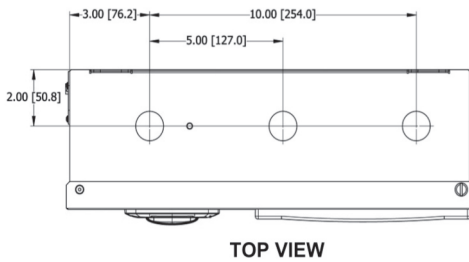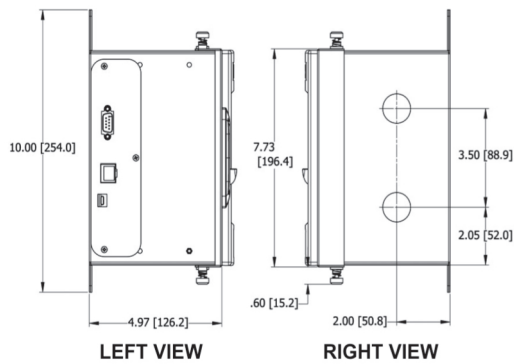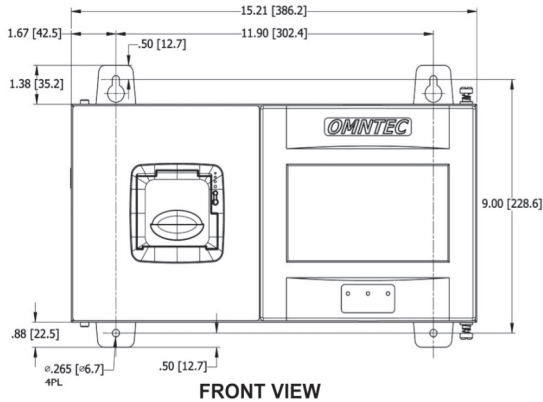
Features

- Accepts up to 8 magnetostrictive probes
- Accepts up to 16 Bright Eye sensors
- Sensors networked using state of the art 4 wire bus technology
- 1 RS-232 port
- 1 RS-485 port (optional)
- 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 8 additional dry contact relays
- Flash based non-volatile memory for program storage (does not require a battery)
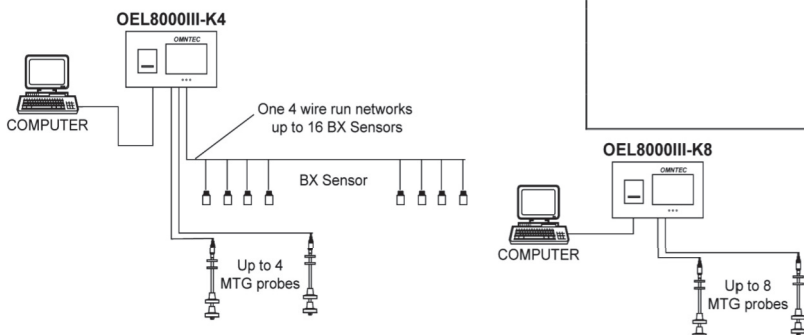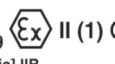- Compatible with OMNTEC PC remote tank inventory monitoring

PROTEUS®
Automatic Tank Gauging and Leak Detection System
Part No. OEL8000IIIK4 & OEL8000IIIK8

15.21 [386.2]
1.67 [42.5]
11.90 [302.4]
.50 [12.7]
1.38 [35.2]

OMNTEC

9.00 [228.6]

.88 [22.5]
ø.265 [ø6.7] 4PL
.50 [12.7]

FRONT VIEW

10.00 [254.0]
7.73 [196.4]
3.50 [88.9]
2.05 [52.0]
4.97 [126.2]
.60 [15.2]
2.00 [50.8]

LEFT VIEW   **RIGHT VIEW**

3.00 [76.2]
10.00 [254.0]
5.00 [127.0]
2.00 [50.8]

TOP VIEW

5.53 [140.5]
5.42 [137.7]
2.00 [50.8]
5.00 [127.0]
3.00 [76.2]
10.00 [254.0]
KNOCKOUT FOR 3/4" CONDUIT 8PL

BOTTOM VIEW

OEL8000III-K Application

OEL8000III-K4

COMPUTER

One 4 wire run networks up to 16 BX Sensors

BX Sensor

Up to 4 MTG probes

OEL8000III-K8

COMPUTER

Up to 8 MTG probes

Specifications

Optional Features:	36-character thermal printer CITLD upgradeable Modbus RTU and TCP OMNTEC PC software
Input Power:	100-240 VAC +/- 10% 50/60 Hz 60 watts
Voltage to Sensors:	12 VDC
Voltage to Probes:	28 VDC
Audio Visual Controls: Display: Audible alarm: Printer: System status:	 Color 7-inch graphic display with touch screen 85 dB piezoelectric horn 36-character thermal 3 LED's (OK, Warning, Alarm)
Relay Outputs:	120 VAC @ 0.6 amp resistive 3 SPST Failsafe
Low-voltage Outputs:	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) *Maximum length 2,000 feet (610m)*
Compatible Probes:	**Rigid Gauging Probe** *(refer to document no. 900194)* MTG-4* (1219mm) MTG-6* (1829mm) MTG-8* (2438mm) MTG-10* (3048mm) **Flexible Fixed Top Probe** *(refer to document no. 900166)* MTG-F-* Series **Flexible Fixed Bottom Probe** *(refer to document no. 900162)* MTG-FB-* Series *Number signifies shaft length and corresponds to tank diameter.* *Contact representative for additional lengths.*
MTG Probe Cable:	OMNTEC EC-2 (Shielded Belden #8761) Low Inductance: equal or less than 0.2 microhenries per foot Maximum length 1,000 feet (305m). Consult representative for longer wire runs.
Accessories:	RD7CTS Mini-Me remote display DDL Series Delivery Defender Lite universal remote overfill alarm RAS Series Remote annunciators PS-103 Thermal printer DPU-C Thermal paper XC-R8 External relay expansion X232-420 External RS-232 to 4-20 ma converter DB-485 RS-485 board C232-BAC Bacnet TCP/IP converter
Weight:	20 lb. (9kg)
Dimensions:	(h) 7.73" (w) 15.21" (d) 5.53"
Approvals:	UL-listed & CUL-listed

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5L04

IECEx UL 13.0057X
[Ex ia Ga] IIB

CE 0539 Ex II (1) G
[Ex ia] IIB
DEMKO 13 ATEX 1341071X

Version Summary:

Version	Probes	Sensors	Audio/Visual	Relays	Communication
K4	4	16	yes	3	(1) RS-232 (1) TCP/IP (1) Expansion Port (1) SD Card slot
K8	8	0	yes	3	
K4B	4	16	no	3	
K8B	8	0	no	3	

Specifications subject to change without notice, verify with manufacturer.

OMNTEC

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