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 OEL8000IIK 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. OEL8000IIK4 & OEL8000IIK8

Specifications

Optional Features:
- 36-character thermal printer
- CITLD upgradeable
- Modbus RTU and TCP
- OMTNTEC 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: Color 7-inch graphic display with touch screen
- Audible alarm: 85 dB piezoelectric horn
- Printer: 36-character thermal
- System status: 3 LED’s (OK, Warning, Alarm)

Relay Outputs:
- 120 VAC @ 0.6 amp resistive 3 SPST FalseSafe

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 (OMTNTEC 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:
- OMTNTEC 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
- IECEx UL 13.0057X [Ex ia Ga] IIB
- DEMKO 13 ATEX 1341071X

Version Summary:

<table>
<thead>
<tr>
<th>Version</th>
<th>Probes</th>
<th>Sensors</th>
<th>Audios/Visual</th>
<th>Relays</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>K4</td>
<td>4</td>
<td>16</td>
<td>yes</td>
<td>3</td>
<td>(1) RS-232</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(1) TCP/IP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(1) Expansion</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Port</td>
</tr>
<tr>
<td>K8</td>
<td>8</td>
<td>0</td>
<td>yes</td>
<td>3</td>
<td>(1) SD Card slot</td>
</tr>
<tr>
<td>K4B</td>
<td>4</td>
<td>16</td>
<td>no</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>K8B</td>
<td>8</td>
<td>0</td>
<td>yes</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Specifications subject to change without notice, verify with manufacturer.

OMTNTEC
9909 Spirk Road
Ronkonkoma, NY 11779
+1.631.981.2001
omtnc@omtnetc.com
www.omtnetc.com

Document No. DS00014 DS00015 rev1946.doc Rev Date : 11-18-2019