



**OMNTEC**  
Advanced Tank Monitoring & Leak Detection

# PROTEUS® TANK GAUGING AND LEAK DETECTION SYSTEM FOR OIL/WATER SEPARATOR TANKS OEL8000IIK4 SERIES

PROTEUS-K provides complete visibility on the status of your Oil/Water Separator. Featuring both internal and external tank monitoring, which is easily understood on its 7-inch color capacitive touch screen display. The PROTEUS Series can simultaneously monitor product levels, water levels, temperature, and leaks for each O/W Separator. Easy to understand and able to track multiple Oil/Water Separators from one simple console.



OEL8000IIK provides level monitoring and leak detection for up to 4 Oil/Water Separators. It can be equipped with up to 16 OMNTEC Bright Eye (BXSeries) sensors for monitoring containment areas. Sensors come in either liquid or product distinguishing models.

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; Registration Number 10017970.

## FEATURES

- Accepts up to 4 magnetostrictive probes
- Accepts up to 16 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 (optional)
- Ethernet / TCP/IP standard
- E-mail / Text capability standard
- Thermal printer option or network printing capable
- Up to 5 built in programmable relays
- Up to 8 additional external dry contact relays

## - COST EFFECTIVE & COMPLIANCE FOCUSED

## - EASY TO USE, PLUG AND PLAY INSTALLATION

- SD memory card slot (for extended logging)
- VLD standard
- CITLD upgradeable
- MODBUS RTU & TCP upgradeable
- Remote display option
- Compatible with **Tank Active™** remote tank inventory monitoring app
- Remote software update capable
- Gain the visibility necessary to properly maintain your OWS
- Reduce routine confined space inspections and maintenance
- Schedule pump outs with precision
- Pump out verification
- Watch oil accumulation and proactively schedule pump out prior to coalesce compromise

# PROTEUS®

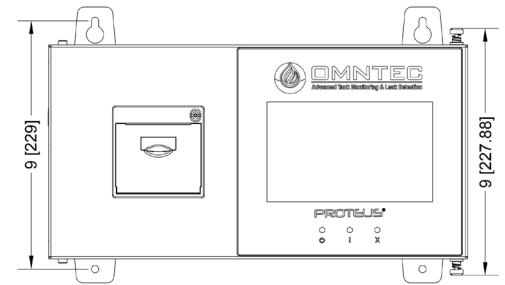
## TANK GAUGING AND LEAK DETECTION SYSTEM

### OEL8000IIK SERIES

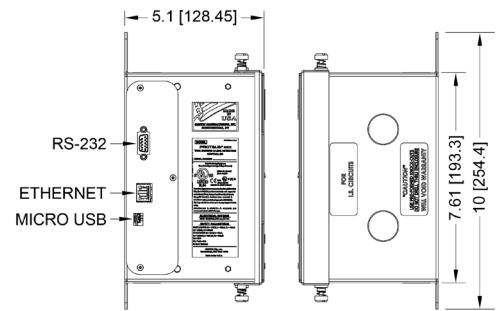
#### SPECIFICATIONS

<b>Input Power</b>	100-240 VAC +/- 10% 50/60 Hz 60 watts
<b>Voltage to Sensors</b>	12 VDC
<b>Voltage to Probes</b>	28 VDC
<b>Display</b>	Color 7-inch graphic display with capacitive touch screen
<b>Audible alarm</b>	85 dB piezoelectric horn
<b>Printer</b>	36-character thermal
<b>System status</b>	3 LED's (Power, Warning, Alarm)
<b>Relay Outputs</b>	5 standard, 6A - 30 VDC / 250 VAC RES
<b>Low-voltage Outputs</b>	12 VDC @ 225 mA
<b>Operating Temperature</b>	20 to 140° F (-7° to 60° C)
<b>Standard Communications</b>	TCP/IP   RS-232
<b>Models Available</b>	OEL8000IIK4-5 (accepts 4 level probes and 16 sensors) OEL8000IIK4P-5 (accepts 4 level probes and 16 sensors, with printer)
<b>Optional Features</b>	CITLD Upgradeable   Modbus RTU and TCP   <b>Tank Active™</b> App
<b>Compatible Sensors</b>	BX-Series sensors (refer to document no. 900106)
<b>BX-Series Sensor Cable</b>	OMNTEC EC-4 - 4 conductor 22 AWG shielded twisted pair cable with drain or equivalent. Maximum length 2,000 feet (610m).
<b>Compatible Probes</b>	MTG-RS Series Rigid Gauging Probe (refer to document no. 900194)
<b>MTG Probe Cable</b>	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.
<b>Accessories</b>	MMRD7 Series Mini-Me remote display DDL Series Delivery Defender Lite universal remote overflow alarm RAS Series Remote annunciators PS-103 Thermal printer DPU-6PK Thermal paper XC-R8 External relay expansion 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
<b>Enclosure Type</b>	UL Type 1
<b>Weight</b>	14 lbs. (6.35 kg)
<b>Dimensions</b>	(h) 10.0" (w) 15.2" (d) 5.1"
<b>Approvals</b>	UL-listed, CUL-listed, ATEX, IECEx

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

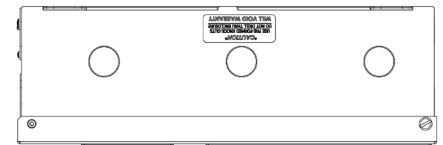


FRONT VIEW

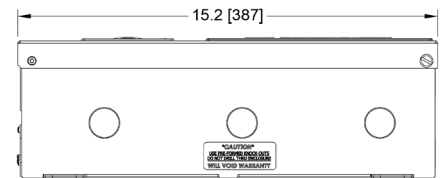


LEFT VIEW

RIGHT VIEW

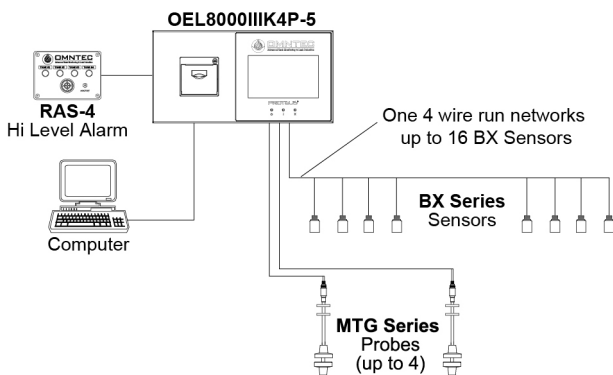


TOP VIEW



BOTTOM VIEW

### PROTEUS-K Oil/Water Separator Application



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# OMNTEC

Advanced Tank Monitoring & Leak Detection

## PROTEUS® MAGNETOSTRICTIVE TANK GAUGING PROBE MTG-RS SERIES



The magnetostrictive tank-gauging (MTG) probe utilizes magnetostrictive technology to provide users with the same level of reliability, durability and cost-effectiveness they expect with all OMNTEC products. The MTG probe used with OMNTEC's tank-gauging controllers monitors product levels, water levels and temperature in both underground and aboveground tank applications.

The MTG probe monitors high-oil level and low-liquid level. To provide the greatest flexibility of use, the probe's shaft is stainless steel. Other major benefits of OMNTEC's MTG probe is that it comes in a number of lengths and in a flexible-shaft option. The number in the probe part number indicates the shaft length and corresponds to tank diameter.

The MTG probe is ruggedly constructed to provide reliable and cost-effective performance.

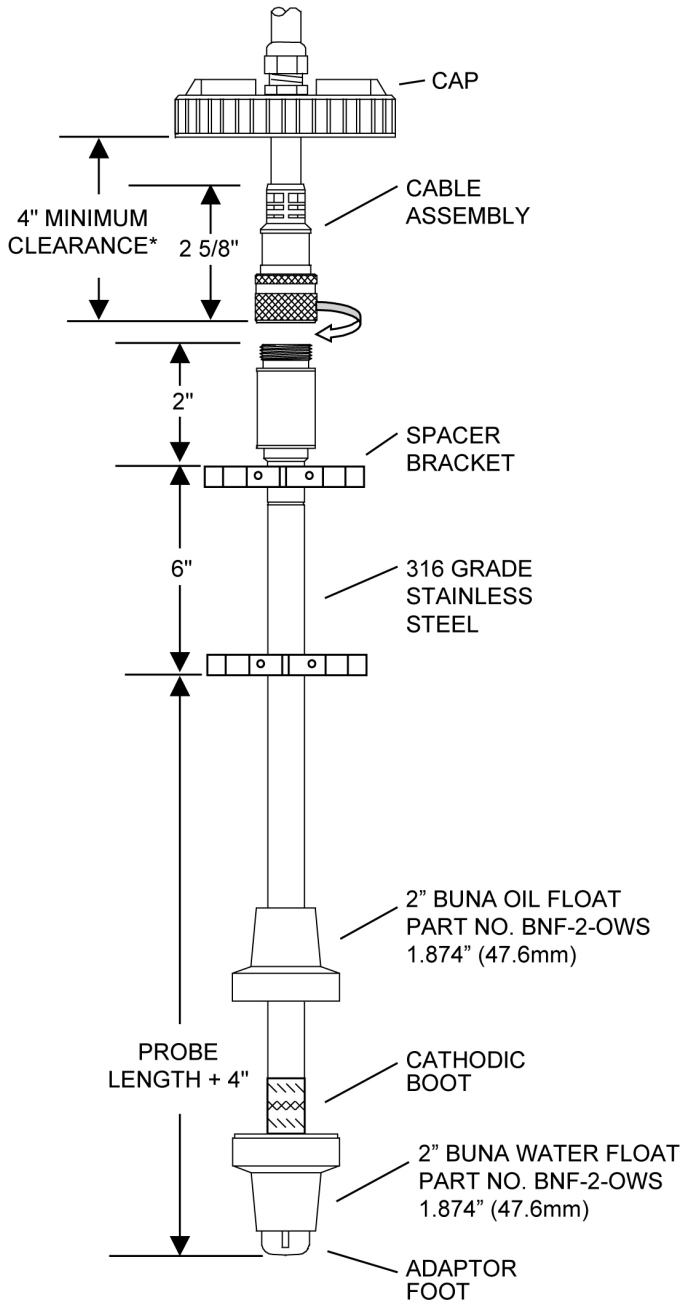
- **MONITORS CONTINUOUS OIL AND WATER LEVELS ALONG WITH HIGH-OIL LEVEL AND LOW LIQUID LEVEL ALARMS**
- **RUGGEDLY CONSTRUCTED TO PROVIDE RELIABLE AND COST EFFECTIVE PERFORMANCE**

### FEATURES

- Patented reflection technique for reliability
- Durable tube-in-tube construction
- High signal-to-noise ratio
- Fast, accurate update
- Custom lengths
- Intrinsically safe
- Cost-effective
- Flexible shaft (optional)

# PROTEUS<sup>®</sup>

## MAGNETOSTRICTIVE TANK GAUGING PROBE MTG-RS SERIES



### SPECIFICATIONS

Enclosure (probe)	NEMA 4, IP68
Input Power	28 VDC +/-10%
Probe Length	Up to 24 feet (7.3m) Consult factory for lengths over 24 feet.
Accuracy	0.010 inches (0.2540mm) inventory mode 0.001 inches (0.0254mm) leak-detection mode
Linearity	+/- 0.01% of full scale or +/- 0.010 inches (0.254mm), whichever is greater
Repeatability	+/- 0.001% of full scale or +/- 0.00025 inches (.00635mm), whichever is greater
Temperature Measurement	6 temperature-sensing devices
Temperature Accuracy	+/- 0.9° F from 14° F to +185° F +/- 0.5° C from -10° C to +85° C
Temperature Measurement Resolution	+/- 0.01° F (.00556° C)
Temperature Sensing Range	40° to 150° F (-40° C to 66° C)
Operating Temperature Range	-40° to 160° F (-40° C to 71° C)
Probe Output	Digital over 2 wires
Probe Cable	EC-2 (Belden #8761) Maximum length 1,000 feet (305m). Consult factory for lengths over 1,000 feet.
Pressure Rating	Up to 500 psi (35Kg/cm2)(float-dependent)
Floats	BNF-2-OWS 2" Buna float set for oil/water separator tanks BNF-4-OWS 4" Buna float set for oil/water separator tanks
Compatible Controllers	PROTEUS Series: OEL8000III-K   OEL8000III-X
MTG includes	4-inch cap Splice kit Cable assembly
Weight	19 lb. (8.62 kg) (approximated based on packaged 10ft. probe)
Approvals	UL-listed, CUL-listed, CE-listed

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