

# Tank Level Sensors

## PROTEUS-K Automatic Tank Gauging and Leak Detection System



### KEY FEATURES

- Accepts up to eight magnetostrictive probes
- Three built-in programmable relays
- Easy to read leak and level alarms
- SD memory card slot (for extended logging)
- Ethernet/TCP/IP
- Built in web server
- E-mail and text capability
- SIL rated operating system
- VLD standard
- Flash based non-volatile memory for program storage (battery not required)
- Compatible with OMNTEC PC remote tank inventory monitoring

A brighter future in tank gauging and leak detection has arrived with the PROTEUS-K. Featuring advanced technology, versatility, scalability, and enhanced features like our 7-inch color touch screen. The PROTEUS-K 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 PROTEUS-K 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-K 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 display screen.

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

### Options

- Up to eight additional dry contact relays
- 36-character thermal printer
- 1 RS-485 port
- Modbus RTU & TCP upgrade
- CITLD upgrade

 See the Ward Brochure for our Solutions Overview.

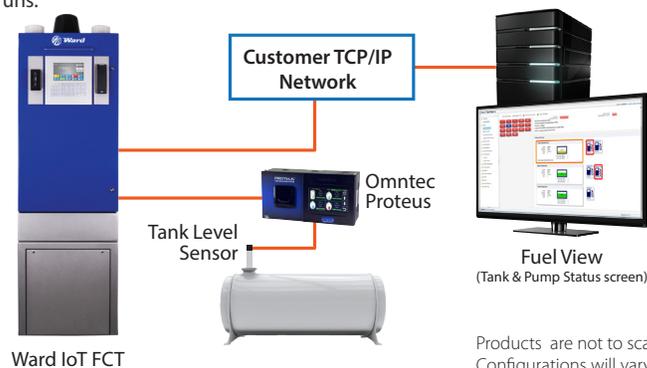
# Specifications

<b>Electrical</b>	Input	100-240 VAC ±10% 50/60 Hz 60
	Voltage to Sensors	12 VDC
	Voltage to Probes	28 VDC
	Relay Outputs	120 VAC @ 0.6 amp resistive 3 SPST Failsafe
	Low-voltage Outputs	12 VDC @ 150 mA
<b>Audio Visual Controls</b>	Display	7-inch color graphic display touch screen
	Audible alarm	85 dB piezoelectric horn
	Printer	36 character; thermal
	System status	3 LED's (OK, warning, alarm)
<b>Operating Temperature</b>	20 to 140° F (-7° to 60° C)	
<b>Compatible Sensors</b>	BX-Series sensors	
<b>BX-Series Sensor Cable</b>	Shielded 22 AWG with drain wire (OMNTEC EC-4) maximum length 2,000 feet (610m)	
<b>Compatible Probes</b>	Rigid Gauging Probe	
	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 MTG-FB-* Series	
<b>MTG Probe Cable</b>	OMNTEC EC-2 (Shielded Belden #8761) Low Inductance equal or less than 0.2 microhenries per ft maximum length 1,000 feet (305m)**	
<b>Accessories</b>	RD7CTS	Mini-Me remote display
	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
<b>Weight</b>	20 lb. (9kg)	
<b>Dimensions</b>	7 x 15 x 5 inches (H x W x D)	
<b>Approvals</b>	UL; CUL	

\* Number signifies shaft length and corresponds to tank diameter. Contact representative for additional lengths.

\*\* Consult representative for longer wire runs.

**i** Dimensions may vary slightly. Specifications subject to change without notice, verify with manufacturer.



Products are not to scale.  
Configurations will vary.  
Other communication options available.

## Contact

[www.ejward.com/contact](http://www.ejward.com/contact)