



### **Features**

- Custom polyurethane or ETFE cable lengths
- Welded 316SS or titanium body
- Custom level ranges up to 700 ft. (210 m) H<sub>2</sub>O
- Multiple analog outputs
- Multiple nose piece styles
- Optional lifetime lightning protection
- Shipped with long life vent filter
- Available molded cable seal

# **Applications**

- Lift stations
- Pump control
- Level control
- Surface water monitoring
- Landfill leachate
- Well monitoring
- Groundwater monitoring

# Specifications

PARAMETER		COMMENT
LEVEL RANGES		
Full Scale Level Ranges (Intermediate level ranges are available)	5 thru 700 ft. $H_2O$ (1.5 thru 210 m $H_2O$ )	Vented Gage Reference
	35 thru 700 ft. $H_2O$ (10 thru 210 m $H_2O$ )	Sealed Gage Reference
	35 thru 700 ft. $H_2O$ (10 thru 210 m $H_2O$ )	Absolute Gage Reference
Proof Pressure	1.5 x FS	
Burst Pressure	2.0 x FS	
STATIC PERFORMANCE		
Static Accuracy (Combined effects of non-linearity, hysteresis and repeatability, best fit straight line method)	±0.10% FSO	BFSL method
Resolution	+0.0001% FS	

# **KPSI 730**

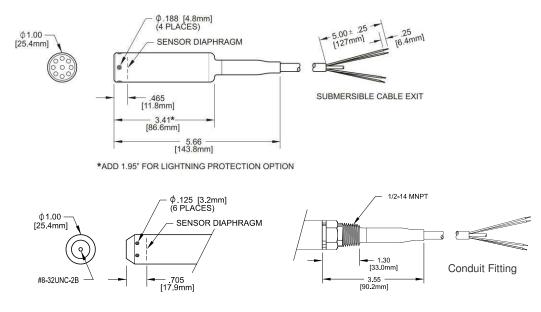
- Submersible level transducer
- ±0.10% FSO static accuracy
- Two year warranty

The KPSI 730 is a submersible hydrostatic level transducer specifically designed to meet the rigorous environments encountered in liquid level measurement and control. It can be configured to perform to specifications under most adverse, reactive conditions.

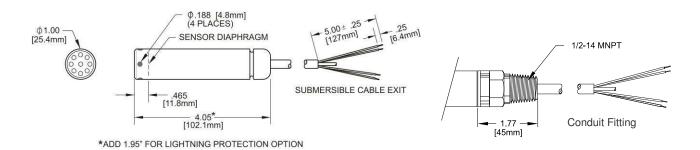
All KPSI Transducers utilize a highly accurate pressure sensor assembly specifically designed for hostile fluids and gases. The assembly is integrated with supporting electronics in a durable waterproof housing constructed of 316 stainless steel or titanium. The attached electrical cable is custom manufactured and includes para-aramid synthetic fiber members to prevent errors due to cable elongation, and a unique water block feature that self-seals in the event of accidental cuts to the cable. Each vented reference transducer is shipped with a SuperDry Vent Filter that prevents moisture from entering the vent tube for at least one year without maintenance, even in the most humid environments.

ENVIRONMENTAL		
Wetted Materials	316 SS or Titanium; POM; FKM; Polyurethane or ETFE	
Compensated Temp Range	0 to 50ºC	
Thermal Error (Maximum allowable deviation from the Best Fit Straight Line due to a change in temperature)	±0.05% FSO/ºC ±0.1% FSO/ºC	Worse case over compensated temperature range for ranges < 12 ft. (4 m) $\mbox{H}_2\mbox{O}$
Operating Temp Range	-20 to 60 ºC	When attached to polyurethane cable
Protection Rating	IP 68, NEMA 6P	
ELECTRICAL		
Excitation	9-28 V – VDC output 9-28 V – mA output 15-28 V – VDC output 10-28 V – VDC output	0-5 V, 0-2.5 V, 0-4 V 4-20 0-10 V 1.5-7.5 V
Input Current	20 mA max. 3.5 mA max.	For mA output For VDC output
Output	4-20 mA, 0-5 VDC, 0-2.5 VDC, 0-4 VDC, 0-10 VDC, 1.5-7.5 VDC	For ranges < 5 ft. (1.5m) H2O, only 4-20 mA output is available
Zero Offset	±0.25 mA for mA output < 0.25 VDC for VDC output	
Output Impedance	See loop diagram for mA output 20 ohm for VDC output	
Insulation Resistance	100 mega ohm at 50 VDC	
Circuit Protection	Polarity, surge/shorted output	
CERTIFICATIONS		
	CE compliant	EN 61326-1:2001 and 61326-2-3:2006
	UL, CUL and FM	Class I, II, III, Div 1, Groups A,B,C,D,E,F&G
	WEEE/RoHS	Waste from Electrical and Electronic Equipment (WEEE) and Restrictions on the use of Hazardous Substances (RoHS)
PHYSICAL		
Approximate Weight	0.44 lbs. (198 g) transducer 0.05 lbs./ft. (79 g/m) cable	
Cable Jacket Material	Polyurethane (Standard) ETFE (Optional)	
Cable Pull Strength	200 lbs. (90 kg)	
Cable Number of Conductors	4	
Cable Conductor Size	22 AWG	
Cable Seal	Molded Polyurethane FKM Gland	For polyurethane cable For ETFE cable
TEMPERATURE OUTPUT OPTION	N (not intrinsically safety approved)	
Temperature Range	-20 to 60ºC	Available for 4-20 mA output versions only
Output Signal	4-20 mA	
Temperature Measurement Accuracy	±4ºC	± 1ºC with single point calibration
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LIGHTNING PROTECTION (power	supply needs to be limited to 150mA to avoid	u lock up of the gas tube after a suppression event)
,	supply needs to be limited to 150mA to avoid >1,000 Operations	a lock up of the gas tube after a suppression event)
LIGHTNING PROTECTION (power		a lock up of the gas tube after a suppression event)
LIGHTNING PROTECTION (power s Life Expectancy	>1,000 Operations	a lock up of the gas tube after a suppression event)

# Dimensions



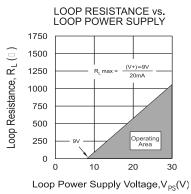
### Molded Cable Seal Configuration for Polyurethane Cable



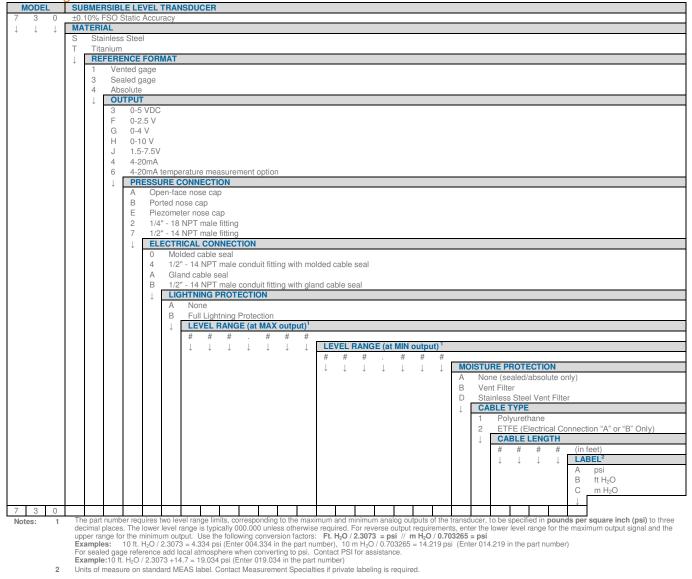
### Gland Cable Seal Configuration for ETFE Cable

# Electrical Termination / Loop Resistance

ELECTRICAL TERMINATION				
22AWG CONDUCTORS IN A SHIELDED CABLE WITH VENT TUBE				
4-20 mA	RED BLACK	+ EXCITATION - EXCITATION		
0-5 VDC	RED BLACK WHITE	+ EXCITATION - EXCITATION + SIGNAL		
ALL	DRAIN WIRE	SHIELD		



### **Ordering Information**



#### **NORTH AMERICA**

Measurement Specialties, Inc., a TE Connectivity company 1000 Lucas Way Hampton, VA 23666 Tel : 1-757-766-1500 Fax : 1-757-766-4297 Toll Free: 1-800-745-8008 Email: WL.Sales@te.com

#### EUROPE

Measurement Specialties (Europe), Ltd., a TE Connectivity company 26 Rue des Dames 78340 Les Clayes-sous-Bois, France Tel : +33 (0) 130 79 33 00 Fax : +33 (0) 134 81 03 59 Email: customercare.lcsb@te.com

#### ASIA

Measurement Specialties (China), Ltd., a TE Connectivity company No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China Tel : +86 755 3330 5088 Fax : +86 755 3330 5099 Email: customercare.shzn@te.com

#### te.com/sensorsolutions

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