



Features

- Custom polyurethane or ETFE cable lengths
- Welded 316SS or titanium body
- \bullet Custom level ranges up to 700 ft. (210 m) H_2O
- Multiple analog outputs
- Ported nose cap
- Optional lifetime lightning protection
- Available molded cable seal

Applications

- · Surface water monitoring
- Well monitoring
- Groundwater monitoring
- Pump control
- Slug tests
- Level control
- Ballast tank control

KPSI 330

- Submersible level transducer
- Small bore, 0.75"diameter
- ±0.10% FSO static accuracy
- Two year warranty

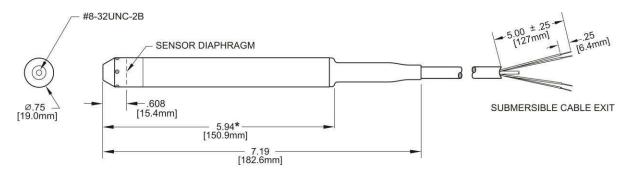
The KPSI 330 is a submersible hydrostatic level transducer specifically designed for small bore applications and to meet the rigorous environments encountered in ground water level measurements. This transducer provides repeatable, precision depth measurement under most adverse conditions.

Every KPSI Transducer utilizes 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 paraaramid 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 our SuperDry Vent Filter that prevents moisture from entering the vent tube for at least one year without maintenance, even in the most humid environments.

Specifications

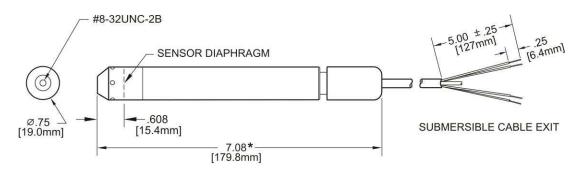
STATIC PERFORMANCE			
Static accuracy (Combined effects of non-linearity, hysteresis and repeatability, best fit straight line method)	±0.10% FSO	BFSL method	
Resolution	+0.0001% FS		
ENVIRONMENTAL			
Wetted materials	316 SS or titanium; FKM; Polyurethane or ETFE		
Compensated temp range	0 to 50°C		
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) H_2O	
Operating temp range	-20 to 60 °C	When attached to polyurethane cable	
Protection rating	IP 68, NEMA 6P		
ELECTRICAL			
Excitation	9-28V – VDC output 9-28V – mA output 15-28V – VDC output 10-28V – 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. (1.5 m) H₂O, only 4-20mA 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	0.47 lbs. (224 g) transducer 0.05 lbs./ft. (79 g/m) cable		
Cable jacket material	Polyurethane (Standard), ETFE (Optional)		
Cable pull strength	200 lbs. (90 kg)	Polyurethane	
Cable number of conductors	4		
Cable conductor size	22 AWG		
Cable seal	Molded polyurethane FKM gland	For polyurethane cable For ETFE cable	
LIGHTNING PROTECTION (Powers		ock up of the gas tube after a suppression event)	
Life expectancy	>1,000 Operations		
Peak clamping voltage	36 volts		
Response time	<10 nsecs		

Dimensions



*ADD 5.00" FOR LIGHTNING PROTECTION OPTION

Molded Cable Seal Configuration for Polyurethane Cable

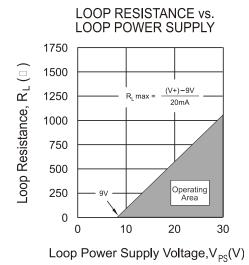


*ADD 5.00" FOR LIGHTNING PROTECTION OPTION

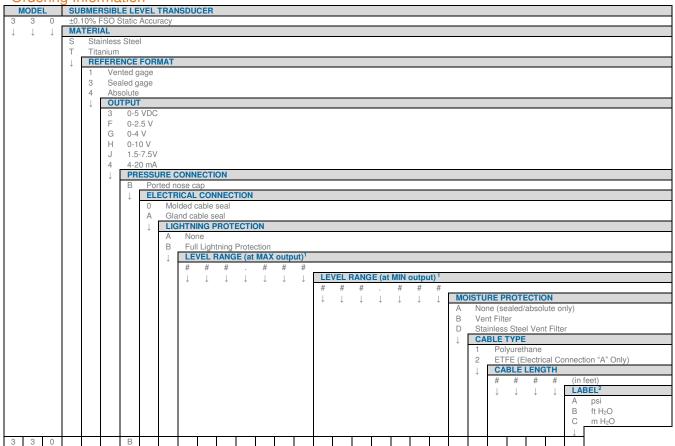
Gland Cable Seal Configuration for ETFE Cable

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



Notes: 1 The part number requires two level range limits, corresponding to the maximum and minimum analog outputs of the transducer, to be specified in **pounds per square inch** (**psi**) to three decimal places. The lower level range is typically 000.000 unless otherwise required. For reverse output requirements, enter the lower level range for the maximum output signal and the upper range for the minimum output. Use the following conversion factors: Ft. H₂O / 2.3073 = **psi** // **m** H₂O / 0.703265 = **psi**Examples: 10 ft. H₂O / 2.3073 = 4.334 psi (Enter 004.334 in the part number), 10 m H₂O / 0.703265 = 14.219 psi (Enter 014.219 in the part number)

Example:10 ft. H₂O / 2.3073 +14.7 = 19.034 psi (Enter 019.034 in the part number)

2 Units of measure on standard MEAS label. Contact Measurement Specialties if private labeling is required.

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