

us <FM

Features

- Custom polyurethane or ETFE cable lengths
- Welded 316SS or titanium body
- Custom level ranges up to 700 ft. (210 m) H₂O
- Multiple analog outputs
- Multiple nose piece styles
- Optional lifetime lightning protection
- Long life vent filter or aneroid bellows
- 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)	2.3 thru 700 ft. H ₂ O (0.70 thru 210 m H ₂ O	D) Vented Gage Reference
	10 thru 700 ft. H_2O (3 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)	±0.25% FSO	BFSL method
Resolution	+0.0001% FS	

KPSI 720

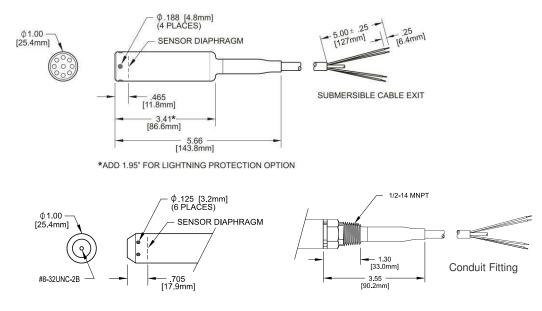
- Submersible level transducer
- ±0.25% FSO static accuracy
- Custom built in two days
- Two year warranty

The KPSI 720 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.

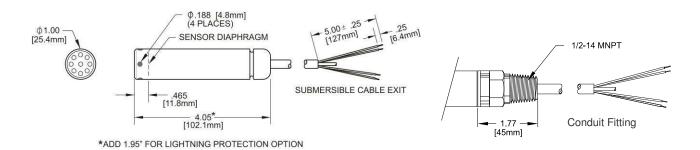
Every KPSI Transducer utilizes a highly accurate pressure sensor assembly specifically designed for hostile fluids and gases. The assembly is integrated with supporting electronics in a durable waterproof housing constructed of 316 stainless steel or titanium. The attached electrical cable is custom manufactured and includes 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 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) H_2O
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) H_2O , 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 61326-1:2013 and 61326-2-3:2013
	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)	Polyurethane
Cable Number of Conductors	4 max.	
Cable Conductor Size	22 AWG	
Cable Seal	Molded Polyurethane FKM Gland	For polyurethane cable For ETFE cable
TEMPERATURE OUTPUT OPTION	(Not intrinsically safety approved)	
Temperature Range	-20 to 60ºC	Available for 4-20mA output versions only
Output Signal	4-20 mA	
Temperature Measurement Accuracy	±4ºC	$\pm 1^{\circ}$ C with single point calibration
,	supply needs to be limited to 150mA to avoid lo	ock up of the gas tube after a suppression event)
Life Expectancy	>1,000 Operations	
Peak Clamping Voltage	36 Volts	
Response Time	<10 nsecs	
Shunts	20,000 Amperes	
onunto	20,000 / importo	

Dimensions



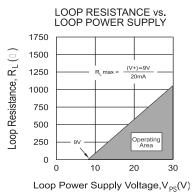
Molded Cable Seal Configuration for Polyurethane Cable



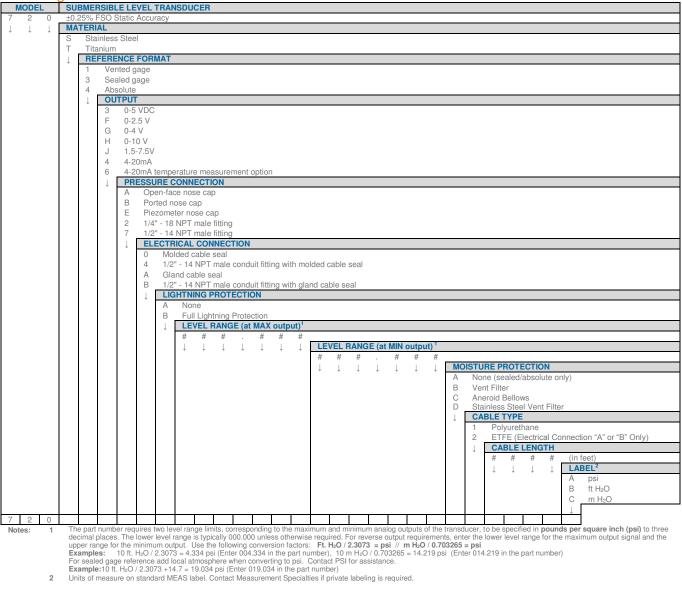
Gland Cable Seal Configuration for ETFE Cable

Electrical Termination / Loop Resistance

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



Ordering Information



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