

MEAS KPSI 300DS



- Deep Submersible Level Transducer
- Small Bore, 0.75" Diameter
- $\pm 0.50\%$ FSO Static Accuracy
- Two Year Warranty



DESCRIPTION

The MEAS KPSI 300DS submersible hydrostatic level transducer is specifically designed for small bore applications and to meet the rigorous environments encountered in deep water level measurements. These transmitters provide repeatable, precision depth measurement under most adverse conditions.

All MEAS 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 Kevlar® 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.

FEATURES

- Custom Polyurethane or ETFE Cable Lengths
- Welded 316SS Construction
- Custom Level Ranges to 4614 ft (1408M) H₂O
- Multiple Analog Outputs
- Ported Nose Cap

APPLICATIONS

- Down Hole
- Level Control
- Pump Control

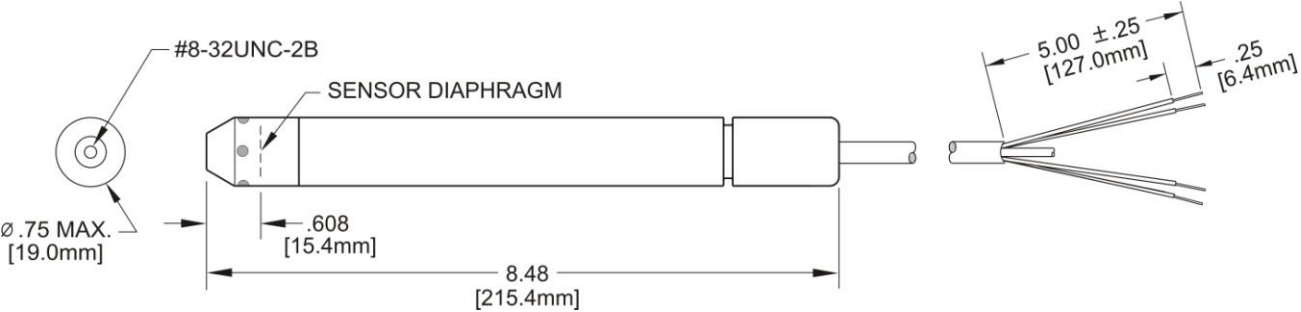
MEAS KPSI 300DS

SPECIFICATIONS

Parameter	Comment	
LEVEL RANGES		
Full Scale Level Ranges (intermediate level ranges are available)	700 thru 4614 ft H ₂ O (210 thru 1408 m H ₂ O)	Sealed 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)	±0.50% FSO	
Resolution	+0.0001% FS	
ENVIRONMENTAL		
Wetted Materials	316 SS; POM; FKM	
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/°C	worst case over compensated temperature range
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	0-5V, 0-2.5V, 0-4V 4-20
Input Current	20 mA max 3.5 mA max	for mA output for VDC output
Output	4-20mA, 0-5 VDC, 0-2.5VDC, 0-4VDC, 0-10VDC, 1.5-7.5VDC	
Zero Offset	±0.12 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
PHYSICAL		
Approximate Weight	0.63 lbs (285 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

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DIMENSIONS



Gland Cable Seal

ELECTRICAL TERMINATION / LOOP RESISTANCE / CERTIFICATIONS

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

