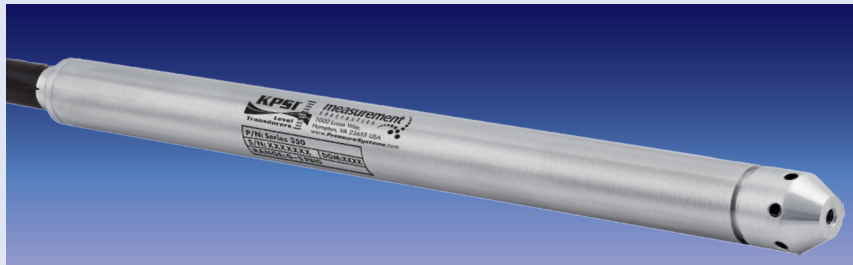


KPSI 351 | 353 | 355

SDI-12 SMALL BORE submersible level transducer



FEATURES

- HIGH ACCURACY 0.01 FEET
- 0.75" BORE DIAMETER FITS 1" & 7/8" CONDUIT
- CUSTOM LEVEL RANGES UP TO 230FT (70M) H2O
- CUSTOM POLYURETHANE OR ETFE CABLE LENGTHS
- SDI-12 OUTPUT
- WELDED 316SS OR TITANIUM
- OPTIONAL LIFETIME LIGHTNING PROTECTION
- TWO YEAR WARRANTY
- SHIPPED WITH LONG LIFE VENT FILTER

APPLICATIONS

- SURFACE WATER MONITORING
- TAILRACE AND FOREBAY MONITORING
- OCEANOGRAPHIC RESEARCH
- GROUNDWATER MONITORING
- DOWN HOLE
- STAGE MONITORING

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specifications information

FULL SCALE LEVEL RANGES

Intermediate Level Ranges Are Available

Vented gage reference

353/355.....	10 thru 230 ft (3 thru 70 m) H2O
351.....	10 thru 69 ft (3 thru 21 m) H2O
Proof Pressure.....	1.5 X FS
Burst Pressure.....	3.0 X FS

STATIC PERFORMANCE

TEB Includes Combined Errors Due To Nonlinearity, Hysteresis, Nonrepeatability, And Thermal Effects Over the Compensated Temperature Range

Measurement Accuracy Level

355 ±0.05%FS TEB, level ranges >10 ft (3m) H2O
±0.10%FS TEB, level ranges =10 ft (3m) H2O
353 ±0.10%FS TEB
351 ±0.01ft H2O, when reading ≤ 10 ft (3m) H2O
±0.10% of reading, when reading > 10 ft (3m) H2O

Temperature.....±0.5°C

MEASUREMENT RESOLUTION

Level.....	±0.0001%FS
Temperature.....	±0.001°C

ENVIRONMENTAL

Wetted Materials.....316 SS or titanium; Delrin®; polyurethane or Viton®. Delrin® and Viton® are registered trademarks of DuPont.

Compensated Temp Range.....0 to 50°C
Operating Temp Range.....-20 to 60°C
when attached to polyurethane cable

Protection RatingIP 68, NEMA 6P

ELECTRICAL

Excitation.....	6-28 VDC
Input Current.....	8 mA, average current during data acquisition; 1.0 mA, quiescent
Interface.....	SDI-12 or RS-485 (SDI-12 v1.3 protocol)

CERTIFICATIONS

CE compliant to EN 61326-1:2001 and EN 61326-2-3:2006

PHYSICAL

Approximate Weight.....	0.35 lbs (160 g) transducer, 0.05 lbs/ft (79 g/m) cable
Cable Jacket Material.....	Polyurethane (standard), Tefzel®, Teflon® and Kevlar® are registered trademarks of DuPont. ETFE (optional), ETFE is a fluoropolymer (Teflon® derivative) material, Tefzel® or equivalent
Cable Pull Strength.....	200 lbs (90 kg)
Cable Number of Conductors.....	4
Cable Conductor Size.....	22 AWG
Cable Seal.....	Molded Polyurethane for polyurethane cable, Viton® Gland for ETFE cable

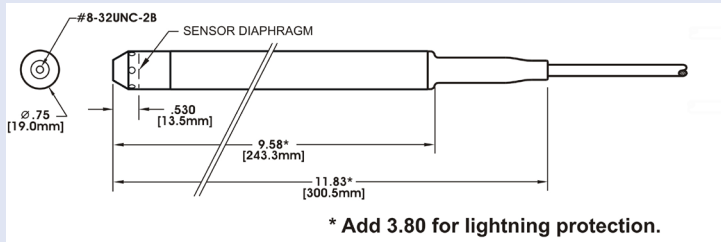
LIGHTNING PROTECTION (OPTIONAL)

Power Supply Needs To Be Limited To 150 mA To Avoid Lock Up Of The Gas Tube After A Suppression Event

Life Expectancy.....	> 1,000 operations
Peak Clamping Voltage.....	36 volts
Shunts.....	20,000 Amperes

KPSI 351 | 353 | 355 technical data

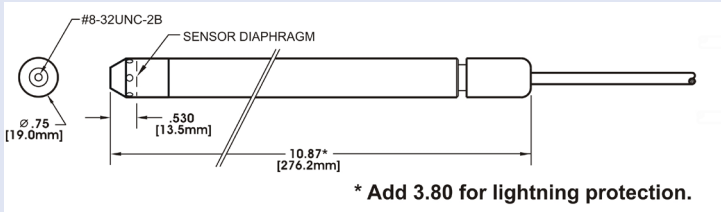
MOLDED CABLE SEAL CONFIGURATION FOR POLYURETHANE CABLE



ELECTRICAL TERMINATION

22AWG CONDUCTORS IN A SHIELDED CABLE WITH VENT TUBE		
SDI-12	RED BLACK WHITE	+ SUPPLY - SUPPLY SIGNAL
RS-485	RED BLACK WHITE GREEN	+ SUPPLY - SUPPLY RS485-A R485-B
ALL	DRAIN WIRE	SHIELD

GLAND CABLE SEAL CONFIGURATION FOR ETFE CABLE



KPSI 351 | 353 | 355 order information

MODEL 351, ±0.01ft H2O
353, ±0.10% FS TEb
355, ±0.05% FS TEb

MATERIAL S, Stainless Steel, T, Titanium

REFERENCE FORMAT 1, Vented gauge

OUTPUT C, SDI-12

PRESSURE CONNECTION (NOSECAP/FITTING) B, RS-485 Closed face

ELECTRICAL CONNECTION O, Molded cable seal

LIGHTNING PROTECTION A, Gland cable seal

LEVEL RANGE (at MAX output) # # # . # # #

LEVEL RANGE (at MIN output) # # # . # # #

MOISTURE PROTECTION B, Vent Filter

CABLE TYPE 1, Polyurethane

CABLE LENGTH (in feet) # # # #

LABEL A, Psi B, ft H2O C, m H2O

EXAMPLE 3 5 3 | S | 1 | C | B | O | B | 0 0 2 1 . 6 7 | 0 0 0 . 0 0 0 | B | 1 | 0 0 5 5 | A

1. The part number requires the level range to be specified in **pounds per square inch (psi)** to three decimal places. Use the following conversion factors:

ft H2O / 2.3073 = psi
m H2O / 0.703265 = psi

Examples: 50 ft H2O / 2.3073 = 21.67 psi
100m H2O / 0.703265 = 142.19 psi

(enter 0021.67 in the part number)
(enter 0142.19 in the part number)

2. Contact MEAS if private labeling is required.

Warranty: The Series 350 product is warranted against defects in material and workmanship for 2 years from date of shipment. Products not subjected to misuse will be repaired or replaced. THE FOREGOING IS IN LIEU OF ANY OTHER EXPRESSED OR IMPLIED WARRANTIES. We reserve the right to make changes to any product herein and assume no liability arising out of applications or **USE OF ANY PRODUCT OR CIRCUIT DESCRIBED. PRODUCTS DESCRIBED IN THIS SPECIFICATION ARE NOT INTENDED FOR LIFE SUPPORT APPLICATIONS.**