

**Submersible Ø25mm**

**Fixed Range**

# DEPTH SENSOR

**Pi993  
Series**



- **Depth Ranges  
0.5mWG to 100mWG**
- **Full Submersible Integrity**
- **Factory Scaled/Calibrated Output**
- **Ø25mm Diameter Body**
- **Lightning (Surge) Protection**
- **Excellent Long Term Stability**
- **Temperature Compensated**
- **Outstanding Performance**
- **Seawater Compatible Version  
Available - Duplex Stainless Steel**
- **3 YEAR WARRANTY**

#### Options Available

Special Ranging Available (consult factory)

Internal PT100 temperature sensor

Extended Temperature Ranges Available

Different Cable Lengths

Higher Accuracy 0.1% Versions Available

## **DESCRIPTION**

The Pi993 series of submersible transducers/transmitters are manufactured from Stainless Steel and utilise a ceramic sensing element (Stainless Steel on ranges below 10mWG). The robust body and polyurethane cable with vent tube and strain wire provide a high integrity waterproof assembly suitable, as standard, to withstand the environmental pressures of up to 10bar (100mWG). A high-grade stainless steel version is available for seawater and brackish applications.

The Pi993 sensor and electronics are protected against the effects of power surges created by lightning strikes, offering distinct advantages over competitive products.

The Pi993 series offer rugged construction, excellent long term stability and performance. To further support our claim of long term reliability we offer the product as standard with a 3-year warranty.

*Transducer Specialists...*

**APPLIED MEASUREMENTS LIMITED**

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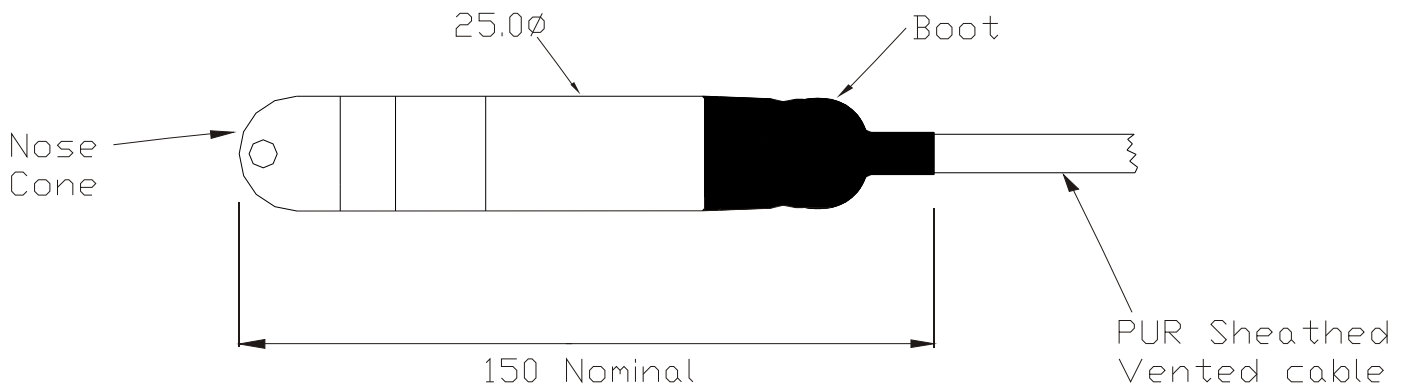


# SPECIFICATION

CHARACTERISTICS	Pi9930	Pi9931	Pi9933	UNITS
Pressure Ranges:	0.5, 1, 2.5, 5, 10, 20, 25, 50, 75, 100			metres Water Gauge (mWG)
Safe Overpressure:	150			%Pressure Range
Burst Pressure:	300			%Pressure Range
Supply Voltage:	3 min./10 nom./15 max.	9 min./32 max.	13 min./ 32 max.	Volts DC
Load Driving Capacity:	N/A	1000	N/A	Ohms at Max. Supply Voltage
Rated Output:	0.0-2.0mV/V	4-20mA	0-10Vdc	± 1%/rated output
Wiring Configuration:	4-wire	2-wire	3-wire	
Electrical Connections:	Screened polyurethane sheathed cable with vent tube, Strain and Drain Wire			
Accuracy:	<0.25 (0.1% Optional)			±%Pressure Range
Temperature Range Operating:	-10 to +80			°C
Compensated:	-10 to +80			°C
Temperature Effect On Output:	<0.04			±%/°C
On Zero:	<0.04 (0.02 or 0.01 optional)			±%/rated output/°C
Environmental Protection:	IP68 to 100mWG (10bar)			
Weight	250 approx. (excluding cable)			grams
Construction:	316L St/Steel (SAF2205 optional), AL <sub>2</sub> O <sub>3</sub> Ceramic (10mWG> only) & Viton			
Electrical Protection:	EMC Immunity: EN50082-1 & Surge (Lightning) Protection: EN61000-4-5			

0-2VDC, 1-5VDC & other amplified voltage output options are available if required, please consult sales for further information

All dimensions in mm



## Ordering Information

The product part number is coded to assist with ordering, as follows:

Pi9930	316L Stainless Steel body with 10mV/V output
Pi9931	316L Stainless Steel body with 4-20mA output
Pi9933	316L Stainless Steel body with 0-10Vdc output
S	SAF2205 Duplex Stainless Steel body (optional)
5mWG	Scaled measuring range in metres water gauge
C10	Cable length in metres - i.e. 10 metres
N	Denotes nose cone fitting. Alternative types include T for tapping to pipeline (normal fitting, for tapping, is 1/4" BSPP male)

e.g.. Pi9931 S 5mWG C10 N

