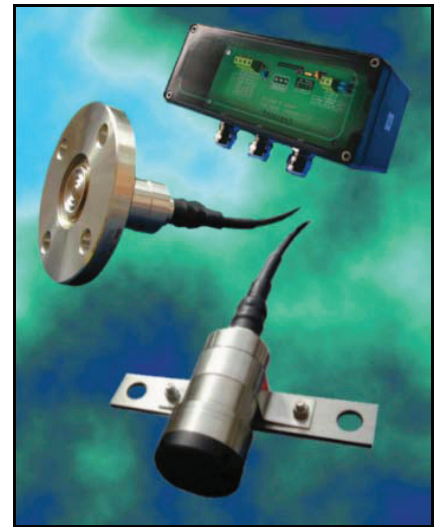


North American Sensors Corporation

460 series liquid level transmitters for the marine industry

With many thousands of transmitters installed on all classes of Ships from Military vessels to Tankers, the design of the 'Tankstar' series draws on over 20 years successful application experience. Fully compliant with the latest IEC and Marine Industry standards, its rugged construction provides reliable and accurate monitoring of liquid levels in the harsh environments of shipboard tanks and draught applications, where conditions of high overload, shock, vibration, and temperature variation are common.

The measuring principle of pressure sensitive diaphragm & L.V.D.T combines excellent sensitivity and long term stability The 'Tankstar' has the sensitivity needed to accurately measure shallow tanks but will sustain a 50 times overload without damage. The all welded sensor is manufactured from high grade alloys selected for their stability & corrosion resistance. A wide choice of fittings and the remotely mounted amplifier maximises installation flexibility and serviceability.



- Sealed & submersible sensor construction
- meets RFI/EMC standards
- Marine classification "Type Approved"
- Seawater, Oils & corrosive / hazardous duties
- Versatile installation
- Gauge or absolute versions
- EExia IIC T5 intrinsically safe option

Sensors are maintenance free and contain no active electronic components. A factory sealed cable is supplied to the required length for direct connection to the amplifier. The standard sensor cable has a heavy duty outer sheath of cross linked polymers which are suitable for continuous immersion in both sea water, fuels and hydrocarbons. An optional performance cable permits use of sensor in extreme temperature limits of -50 °C to +105 °C .

STANDARD SPECIFICATIONS

Calibrated spans:	From 0- 300mm H ₂ O to 0- 100m H ₂ O	Diaphragms:	Hastelloy C276
Range adjustment:	3:1 turndown of normal range	Sensor cable:	Heavy duty TPE vented
Zero adjustment:	± 10% of calibrated span	Electronics housing:	IP65 GRP (NEMA 4) with internal RFI screen (IP67 optional)
Overload:	Minimum of 50 metres or 5 x nominal range	Operating temperature:	-25°C to +95 °C (option: -80 to 150 °C)
Nominal ranges:	1, 2, 4, 8, 16, 32, 50, 100 metres H ₂ O	Electronics op.temp:	-40 to +55 °C
Signal output:	4 -20mA DC 2 wire	Minimum survival:	-50°C
Power supply:	12 - 30V DC	Accuracy:	Better than ±0.25% FRO
Maximum load:	1000 ohms at 30V	Temp. coefficient:	Less than 0.02% per °C shift zero and range
Sensor body:	316L stainless steel		

1-800-259-6874

23400 Hwy. 435 Abita Springs, LA. 70420



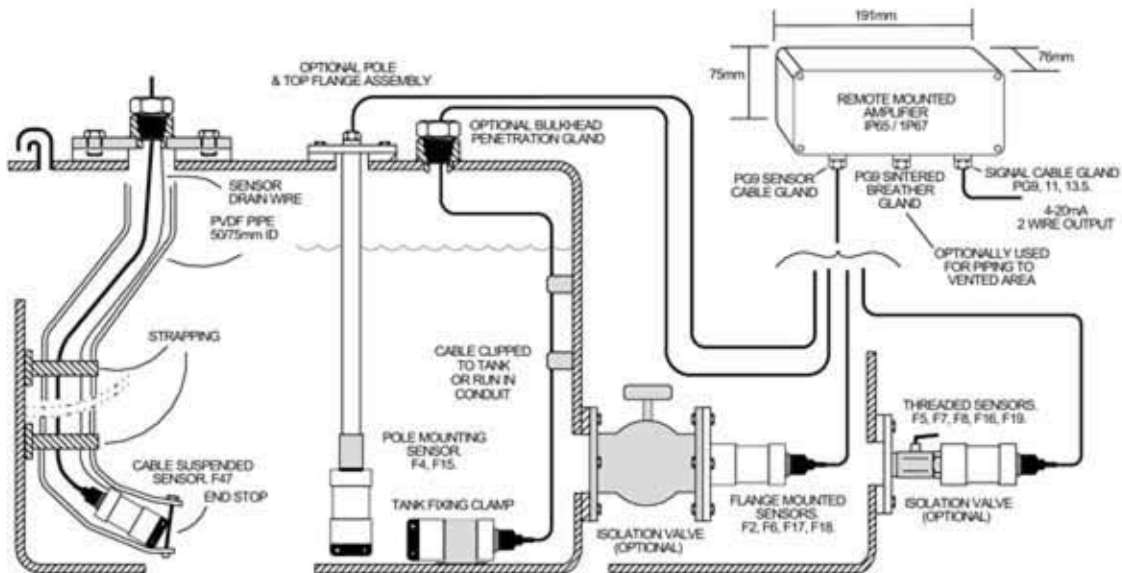
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460	Hydrostatic Sensor in 316 St. Stl.c/w 3 metres of cable RT168A 4 to 20 mA amplifier	
F47	Basic submersible sensor with drain wire adaptor	F7 1/2" NPT male
F2	DN25 PN16 flange mounting	F8 3.4" BSP female
F3	Tank fixing clamp	F15 Welded pole assembly
F4	Pole adaptor fitting threaded 1/2" BSP female	F16 3.4" BSP female with NRVU plunger
F5	Threaded process connection 1/2" BSP male	F17 DN40 PN16 flange mounting
F6	1" ANSI 150lb flange mounting to BS1560	F18 DN50 PN16 flange mounting
		F19 1/2" BSP female
H	Hastelloy Diaphragm	
2D	2m H ₂ O	} <i>Nominal range in metres H₂O</i>
4D	4m H ₂ O	
8D	8m H ₂ O	
16D	16m H ₂ O	
32D	32m H ₂ O	
50D	50m H ₂ O	
100D	100m H ₂ O	
200D	200m H ₂ O	
P	Hytrel TPE heavy duty vented cable	
--	Cable length in metres	DW--
--	Drain wire length in metres (F47 model only)	
--	Transmitter set range in metres H₂O	
IS	Intrinsically safe certified	
	Intrinsically safety not required	

Other options include

B-High temperature sensor (up to 105°C submersible, 145°C external) G-IP67 Amplifier enclosure
 K-Absolute pressure version LG-bulkhead fittings in CS (B211B) LGS-Bulkhead fitting in SS (B211A)
 9-PG9 gland for signal cable (standard) 13-PG13.5 16-PG16



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