



Hydrostatic Level Transmitter

460 Hydrostatic Level Transmitter

With thousands of marine liquid level transmitters installed on all classes of ships, from military vessels to tankers, the design of the Series 460 marine level transmitter draws on NASC's comprehensive marine application experience. Fully compliant with the latest IEC and marine industry standards, the Series 460 rugged construction provides reliable and accurate monitoring of liquids in the harsh environments of shipboard tanks. The Measuring principle of pressure in the Series 460 hydrostatic level transmitter is a diaphragm and L.V.D.T. sensor with power and signal linearization via a remote mounted transmitter. This combines excellent responsiveness and long term stability. The liquid level transmitter has the sensitivity needed to accurately measure shallow tanks but will resist a five times nominal range overload without damage. The all welded level sensor is manufactured from high grade alloys specifically selected for their stability and corrosion resistance. A wide choice of fittings and the remotely mounted amplifier maximizes installation flexibility and serviceability. The Series 460 is maintenance free and contains no active electronic components. A factory sealed cable is supplied with a heavy-duty outer sheath of cross linked polymers, suitable for continuous immersion in sea water, fuels and hydrocarbons. An optional performance cable permits use of the sensor with extreme temperatures limits of -50°C to -148°C.



Key Features

- Designed and constructed specifically for marine applications with relevant industry body and type application and approvals.
- Full range of connections and sensor mounting options for side-of-tank or IP68 submersible installation.
- Compatible with all common marine liquids and cargo applications: seawater, fuel and lubricating oil, bilge water etc.
- Wide span with a high measurement accuracy, long term stability and exceptional pressure overload resistance.
- Remote transmitter provides ease of access for routine calibrations checks
- Robust construction gives reliable operation and low maintenance cost.

Specifications			
Calibrated Spans	From 0 - 300 H ₂ O to 0 - 50m 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	Sensors Operating Temperature	-40°C to 105°C (-40°C to +55°C for IS models)
Overload	Minimum of 50 meters or 5 x nominal range	Electronics Housing	IP65 GRP (NEMA 4) with internal RFI screen (IP67 optional)
Nominal Ranges	1, 2, 4, 8, 16, 32 and 50 meters H ₂ O	Electronics Operating Temperature	-40°C to +55°C
Signal Output	4-20mA DC2 wire	Accuracy	Better than ± 0.25% FRO
Power Supply	12- 35 DC	Temperature Coefficient	Less than 0.02@ per °C shift zero and range
Maximum Load	1000 ohms at 30V	Sensor Body	316L stainless steel



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Model Code Logic

460 / F47 / H8 / P / DW 3 / 7.5 / M20 / IS

Position	Code	Description
1: Transmitter	460	Sensor with RT168 remote transmitter 4-20mA output
2: Process Connection	F47	Basic submersible sensor with drain wire adaptor
	F2	DN25 PN16 flanged mounting
	F3	Tank fixing clamp
	F4	Pole adaptor fitting threaded 1/2" BSP female
	F5	Threaded process connection 1/2" BSP Male
	F6	1" ANSI 150lb flanged mounting to BS1560
	F7	1/2" NPT male
	F8	3/4" BSP female running nut
	F15	Welded pole assembly
	F16	3/4" BSP female running nut NRV plunger
	F17	DN40 PN16 flanged mounting
F18	DN50 PN16 flanged mounting	
F19	Fixing clamp @ 1/2" BSP female pole adaptor	
3: Transmitter Maximum Pressure	H1	1m H ₂ O
	H2	2m H ₂ O
	H4	4m H ₂ O
	H8	8m H ₂ O
	H16	16m H ₂ O
	H32	32m H ₂ O
	H50	50m H ₂ O
4: Cable	P	Standard 3m cable length
	X	Custom cable length on request (specify length X meters)
5: Cable Length	DW X	Drain wire length in meters (F47 model only)
6: Range	X	Transmitter 4-20mA configured range in X m H ₂ O
7: Remote Electronics Cable Gland	9	PG9 cable gland for signal cable (standard)
	M16	M16 cable gland for signal cable (optional)
	M20	M20 cable gland for signal cable (optional)
8: Approvals	IS	Hazardous area installation (ATEX IS approved)
	NA	Safe area installation

Dimensional Specifications

