

TANKSTAR

260 series



Liquid Level Transmitters for the Marine Industry

Key features

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
models available



With many thousands of transmitters installed on all classes of Ships from Military vessels to Tankers, the design of the 'Tankstar' series draws on nearly 30 of 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.

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
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%
Maximum load:	1000 ohms at 30V	Temp. coefficient:	Less than 0.02% per °C shift zero and
Sensor body:	316L stainless steel		

principle

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 specifically selected for their stability & corrosion resistance. A wide choice of fittings and the remotely mounted amplifier maximises installation flexibility and serviceability.

benefits

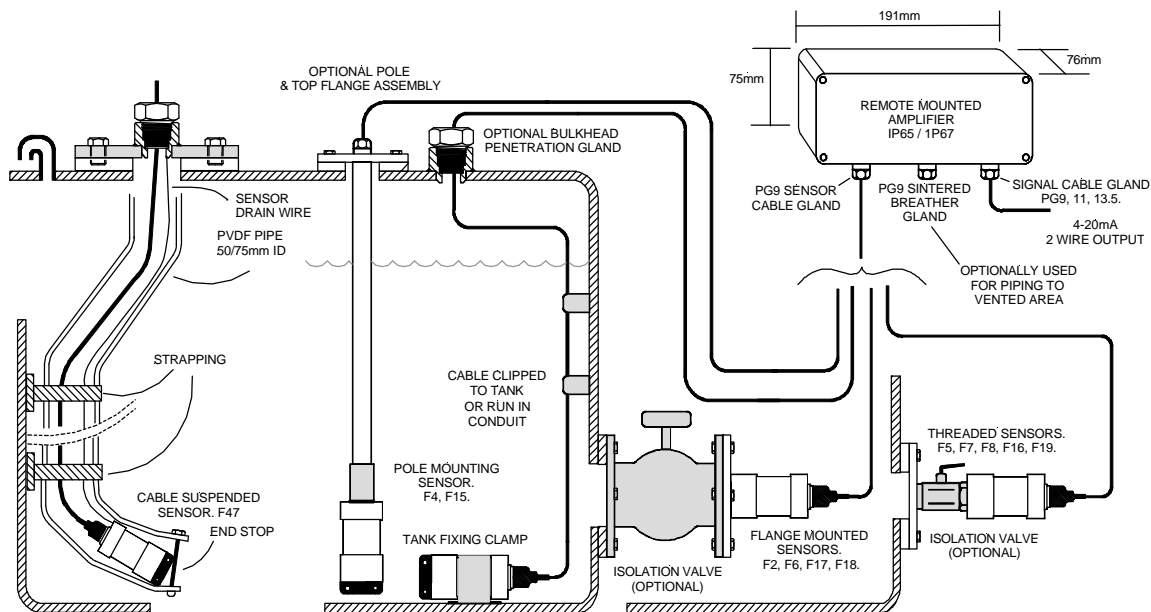
Sensors are maintenance free and contain no active electronic components. A factory sealed cable is supplied to the required length for direct connection to the amplifier. The standard sensor cable has a heavy duty outer sheath of cross linked polymers which are suitable for continuous immersion in both sea water, fuels and hydrocarbons. An optional performance cable permits use of sensor in extreme temperature limits of -50° C to +150°C .



typical installation of sensors

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model designations

260

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
F2 DN25 PN16 flange 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 flange mounting to BS1560

F7 1/2" NPT male
F8 3/4" BSP female
F15 Welded pole assembly
F16 3/4" BSP female with NRvu plunger
F17 DN40 PN16 flange mounting
F18 DN50 PN16 flange mounting
F19 1/2" BSP female

H Hastelloy Diaphragm

2D 2m H₂O
4D 4m H₂O
8D 8m H₂O
16D 16m H₂O
32D 32m H₂O
50D 50m H₂O
100D 100m H₂O
200D 200m H₂O

Nominal
range in
metres H₂O

P

Hytrex TPE heavy duty vented cable

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DW --

Cable length in metres
Drain wire length in metres (F47 model only)

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Transmitter set range in metres H₂O

IS
NA

Intrinsically safe certified
Intrinsically safety not required

Other options include:

B-High temperature sensor (up to 120°C
submersible versions, 145°C external versions)
 G-IP67 Amplifier enclosure
 K-Absolute pressure version
 LG-Bulkhead fitting in CS (B211B)
 LGS-Bulkhead fitting in SS(B211A)
 9-PG9 gland for signal cable (Standard)
 13-PG13.5
 16-PG16

PSM

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