

# TANKSTAR

260 series



## 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.

## 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.

## 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 .

## standard specifications

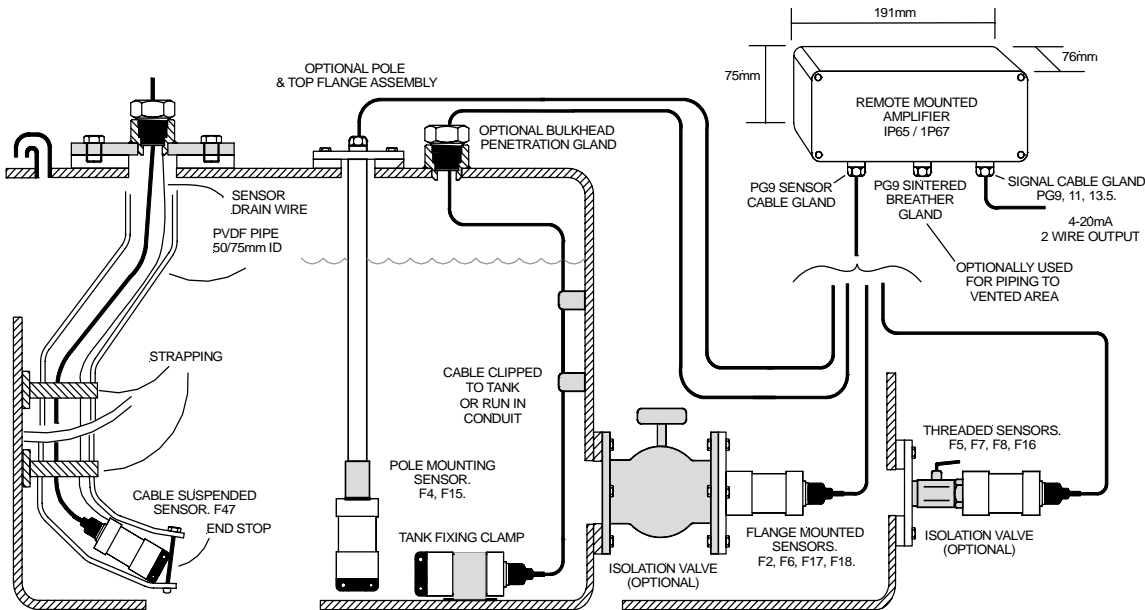
<b>Calibrated spans:</b>	From 0 - 300mm H <sub>2</sub> O to 0 - 200m H <sub>2</sub> O	<b>Diaphragms:</b>	Hastelloy C276
<b>Range adjustment:</b>	3:1 turndown of normal range	<b>Sensor cable:</b>	Heavy duty TPE vented
<b>Zero adjustment:</b>	± 10% of calibrated span	<b>Electronics housing:</b>	IP65 GRP (NEMA 4) with internal RFI screen (IP67 optional)
<b>Overload:</b>	Minimum of 50 metres or 5 x nominal range	<b>Operating temperature:</b>	-25°C to +95°C (option: -80 to 150°C)
<b>Nominal ranges:</b>	1, 2, 4, 8, 16, 32, 50, 100 metres H <sub>2</sub> O	<b>Electronics op.temp:</b>	-40 to +55°C
<b>Signal output:</b>	4 -20mA DC 2 wire	<b>Minimum survival:</b>	-50°C
<b>Power supply:</b>	12 - 35V DC	<b>Accuracy:</b>	Better than ±0.25% FRO
<b>Maximum load:</b>	1000 ohms at 30V	<b>Temp. coefficient:</b>	Less than 0.02% per °C shift zero and range
<b>Sensor body:</b>	316L stainless steel		



# 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

- |   |  |
|---|--|
| <b>F47</b> Basic submersible sensor with drain wire adaptor | <b>F7</b> 1/2" NPT male                                |
| <b>F2</b> DN25 PN16 flange mounting                         | <b>F8</b> 3/4" BSP female                              |
| <b>F3</b> Tank fixing clamp                                 | <b>F15</b> Welded pole assembly                        |
| <b>F4</b> Pole adaptor fitting threaded 1/2" BSP female     | <b>F16</b> 3/4" BSP female with NRVU plunger           |
| <b>F5</b> Threaded process connection 1/2" BSP male         | <b>F17</b> DN40 PN16 flange mounting                   |
| <b>F6</b> 1" ANSI 150lb flange mounting to BS1560           | <b>F18</b> DN50 PN16 flange mounting                   |
|   | <b>F19</b> Fixing clamp & 1/2" BSP female pole adaptor |

## Other options include:

- B-High temperature sensor (up to 120°C submersible versions, 150°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
- Other fittings available on request

**H** Hastelloy Diaphragm

- |             |                       |
|-------------|-----------------------|
| <b>1D</b>   | 1m H <sub>2</sub> O   |
| <b>2D</b>   | 2m H <sub>2</sub> O   |
| <b>4D</b>   | 4m H <sub>2</sub> O   |
| <b>8D</b>   | 8m H <sub>2</sub> O   |
| <b>16D</b>  | 16m H <sub>2</sub> O  |
| <b>32D</b>  | 32m H <sub>2</sub> O  |
| <b>50D</b>  | 50m H <sub>2</sub> O  |
| <b>100D</b> | 100m H <sub>2</sub> O |
| <b>200D</b> | 200m H <sub>2</sub> O |

Nominal range in metres H<sub>2</sub>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 H<sub>2</sub>O

**IS** Intrinsically safe certified  
**NA** Intrinsically safety not required



## advice & enquiries

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