

TA840 Radar Level Gauge



The TA840 radar gauge, originally designed by Thales, has been in operation for over 10 years, and more than 6 000 units are installed on board all kind of ships and platforms. This one is of the latest design.

The gauge is fitted with a flat antenna, and is of a sturdy (cast stainless steel) and extremely compact design.

The signal processing unit is embedded in the radar housing, and the unit is connected to an intrinsically safe power supply.

The TA840 gauge is directly connected to the Inert Gas pressure sensor and 3 temperature sensors of the same cargo tank.

The output signal is digital (Modbus type protocol) and sent to a communication unit located in the control room. The same signal carries the IG pressure and temperature data together with 2 other signals that may be directly sent to the radar gauge.

This type of gauge is impervious to IG pressure and temperature fluctuations and to the gas itself (particles).

It is compatible with the I-NODE module that significantly extends the number of sensors that can be connected on the same line.

Technical data

Originally designed by Thales

FMCW type (10 GHz)

Accuracy: standard: ± 1 mm - Heavily pertubated: ± 5 mm

Resolution: 0.1 mm

Measuring range: 0.5 m to 42 m

Antenna aperture angle (3dB): 10°

Temperature inputs accuracy: 10°C to 35°C $\pm 1^\circ\text{C}$, otherwise $\pm 2^\circ\text{C}$

Voltage inputs accuracy: 2% FS

Output protocol: Proprietary, Modbus available when connected to I-NODE

Intrinsic safety approval: Ex ia [ia] IIC or IIB T6 or T5

Protection class: IP66/67

Maximum tank pressure: 1bar

Operating temperature: -40°C to $+70^\circ\text{C}$

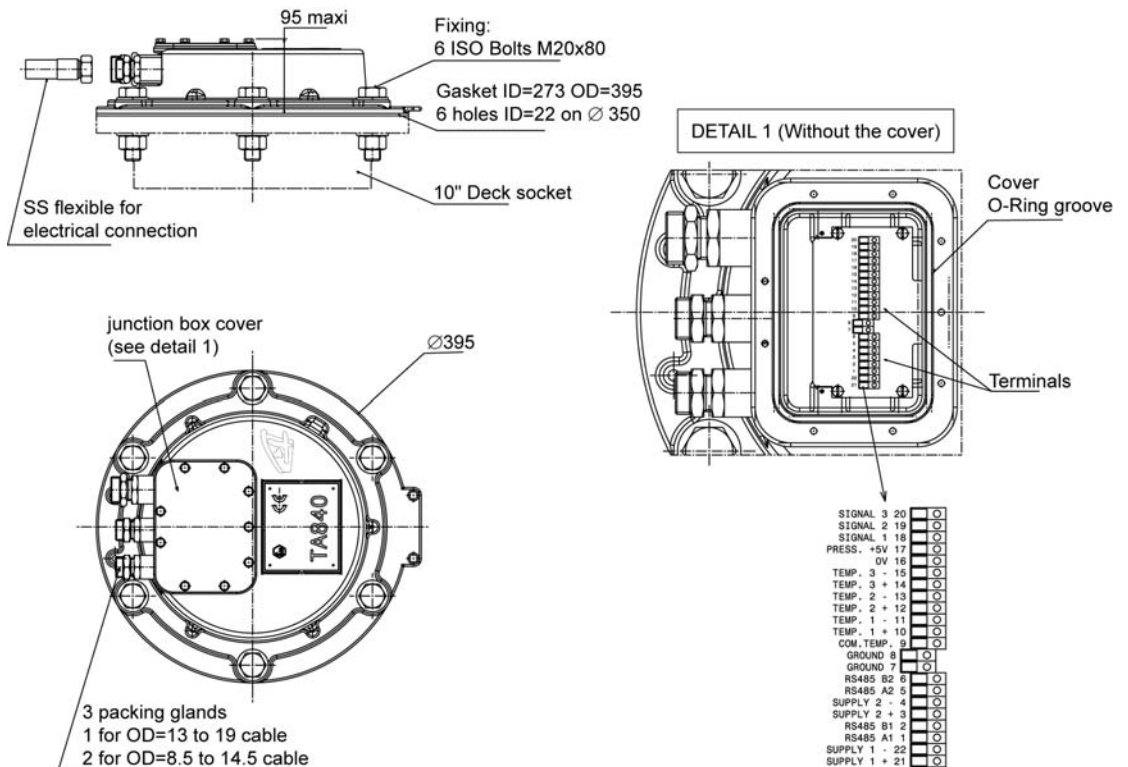
Product temperature: compatible with molten sulphur and bitumen (special trunk required)

Hinge available: PN10 DN250 flange - 3 cable glands (BV2 and / or BV3)

To be mounted with a PTFE protection diaphragm

Weight: 18 kg

Dimensional drawings



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