

Sea**Connect**TM

Temperature & Pressure Sensor - CAN Bus

The RMSpumptools SeaConnect™ Temperature & Pressure Sensor performs measurements on completion and production systems in subsea environments to a water depth of 3,000m. It is typically used for Subsea Christmas Trees and are mandatory to monitor these variables during production.

Operational Requirements

Design Life: 30 years Recalibration: 10 years

Various Flange sizes available Process Connection:

(API 6A 10,000psi with others on request)

Electrical Connection: Oil filled hose, subsea cable

or subsea connector BX-151 or BX-152

Ring Gasket: Location of installation: Subsea Tree Valves or at Manifolds

Working Pressure: 0 - 10,000psi * Working Temperature: -10°C - 120°C *

Sensor Specification

Pressure

Compensated Temperature: 0 - 150°C Calibrated Pressure: 0 - 10,000psi 0.05% FS Resolution:

±0.2% FS (Total Error Band) Accuracy:

Long Term Stability: ±0.2% FS / year

Temperature

Calibrated Temperature: -4°C - 150°C Resolution: 0.05% FS

±0.3% FS (Total Error Band) Accuracy:

Electrical Specification

Protocol: CANopen (according to SIIS recommended

practice and CiA-443) 24 Vdc ±20% (19 to 29 Vdc)

Power Supply: Power Consumption (nominal): < 1 Watt under normal operation

Qualification

Qualified to API 17F, API 6A and API 17D

Key Performance Features

Probe Dimensions

Length: To be specified when ordered

Diameter: 42.2mm

Reduced Weight

15kg. Easy handling and installation

All units are manufactured with qualified materials for subsea use and for corrosive environments, accordingly to the HH class on API 6A / NACE MR-0175. Inconel 625 Diaphraem, Probe and Flange Duplex and Super Duplex (seawater side)

* Other ranges on request

