

Sea**Connect**TM

Temperature & Pressure Sensor - 4 to 20 mA

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

Process Connection: Various Flange sizes available

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

Oil filled hose, subsea cable or subsea connector

Ring Gasket: BX-151 or BX-152

Location of installation: Subsea Tree Valves or at Manifolds

Working Pressure: 0 - 10,000 psi *Working Temperature: $-10^{\circ}\text{C} - 120^{\circ}\text{C} *$

Sensor Specification

Electrical Connection:

Pressure

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

Accuracy: ±0.2% FS (Total Error Band)

Long Term Stability: 0.2% FS / year

Temperature

Calibrated Temperature: 0 - 150°C *
Resolution: 0.05% FS

Accuracy: ±1% FS (Total Error Band)

Electrical Specification

Power Supply: 12-36VDC

Signal Output: 4-20mA current loop

 $\begin{tabular}{ll} The output is made via electrical penetrators \\ Insulation: & 10M\Omega\,/\,50VAC (temperature and pressure) \\ \end{tabular}$

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

Materials

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

