

# SeaConnect™

## 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
Process Connection:	Various Flange sizes available (API 6A 10,000psi with others on request)
Electrical Connection:	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 - 10,000psi *
Working Temperature:	-18°C - 121°C *

### Sensor Specification

#### Pressure

Compensated Temperature:	0 - 150°C
Calibrated Pressure:	-20 - 10,000psi *
Resolution:	0.05% FS
Accuracy:	±0.2% FS (Total Error Band)
Long Term Stability:	±0.2% FS / year

#### Temperature

Calibrated Temperature:	-4°C - 150°C
Resolution:	0.05% FS
Accuracy:	±0.3% FS (Total Error Band)

### Electrical Specification

Protocol:	CANopen (according to SII5 recommended practice and CiA-443)
Power Supply:	24 Vdc ±20% (19 to 29 Vdc)
Power Consumption (nominal):	< 1 Watt under normal operation

### Qualification

Qualified to API 17F v5, 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, according to the HH class on API 6A and NACE MR-0175. Diaphragm, Probe and Flange are Inconel 625. Seawater side metalwork is Duplex and Super Duplex Stainless Steel.

\* Other ranges on request

