The RMSpumptools SeaConnect™ Sensor performs pressure and temperature measurements on completion and production systems in subsea environments to a water depth of 2,500m. It is typically used for Subsea Christmas Trees and are mandatory to monitor these variables during production.

### Operational Requirements
- **Design Life**: 25 years
- **Recalibration**: 10 years
- **Process Connection**: API 6BX 1.13/16” 10ksi flange
- **Electrical Connection**: JIC 8 with oil filled hose or subsea cable
- **Ring Gasket**: BX-151 and 2-239 elastomeric seal
- **Location of installation**: Subsea Tree Valves or at Manifolds
- **Working Pressure**: 0 - 10,000psi
- **Working Temperature**: -10 - 121°C

### Qualification
- **Qualified Pressure**: 3,800psi
- **Vibration Test**: 12-300Hz at 5g on the 3 axis
- **Thermal cycling**: at 4°C, 25°C, 50°C and 60°C with 2 hours on each temperature for 5 days

### Electronic Specification
- **Power Supply**: 12-36VDC
- **Signal Output**: 4-20mA current loop
- **Insulation**: 10MΩ / 50VAC (temperature and pressure)
- **AD/DA Converters**: 16 bits
- **HART and Modbus output**

### Sensor Specification
- **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)

### Key Product Features
- **Reduced Size**:
  - 40cm total length, from the flush to the JIC
- **Reduced Weight**:
  - 15kg. Easy handling and installation
- **Facilitated Calibration**:
  - Calibration performed by HART and Modbus output
- **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
- **Two Choices of Materials**:
  - Can be supplied in 316L SS (UNS S31603) or Super Duplex (UNS 32550)