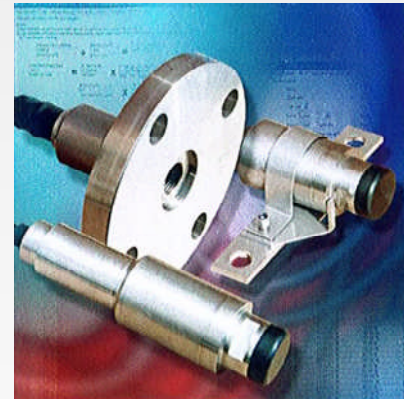




## PROCON PSM iCT Intelligent Electronic Level Transmitters

### FEATURES

- True Dual Mode Analogue 4-20mA and Digital Modbus Level, Pressure and Temperature Transmitter
- Easily replaces conventional two wire 4 to 20mA Transmitters
- Digital Bus and Analogue on one Transmitter
- Signal Linearization- Output in Level or True Volume
- Multi-drop Modbus digital mode for significant cabling savings
- Analogue 4-20mA Outputs
- Wide Span
- High Accuracy/Stability
- Program remotely
- Simple Configuration
- Marine and I.S Approvals
- Submersible and Side or Base Mount Versions.
- Wide analogue turndown range.



### GENERAL DESCRIPTION

The iCT's Ceramic Cell is impervious to corrosion for most applications and is fully protected against overload and shock conditions. The transmitters body is manufactured from high integrity 316 Stainless Steel and employs a carefully engineered Kalrez seal assembly providing fully submersible (IP68) construction capable of withstanding the toughest operating conditions.

The powerful onboard micro-controller utilizes a unique digital processing principle and incorporates a comprehensive range of functions and outputs, all under the users control using our free ISS configuration software.

#### ANALOGUE MODE

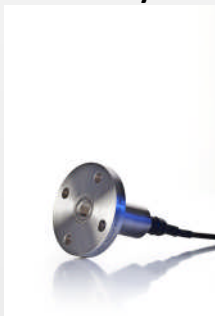
In 2 wire analogue mode the 4-20mA signal can be configured to compensate for any tank shape, S.G, and transmitter offset, so that output is in true volume and not just level removing the need for and additional signal processing instrumentation. Its flexibility ensures that it can be used to replace obsolete conventional 4 to 20mA two wire transmitters.

#### DIGITAL MODE

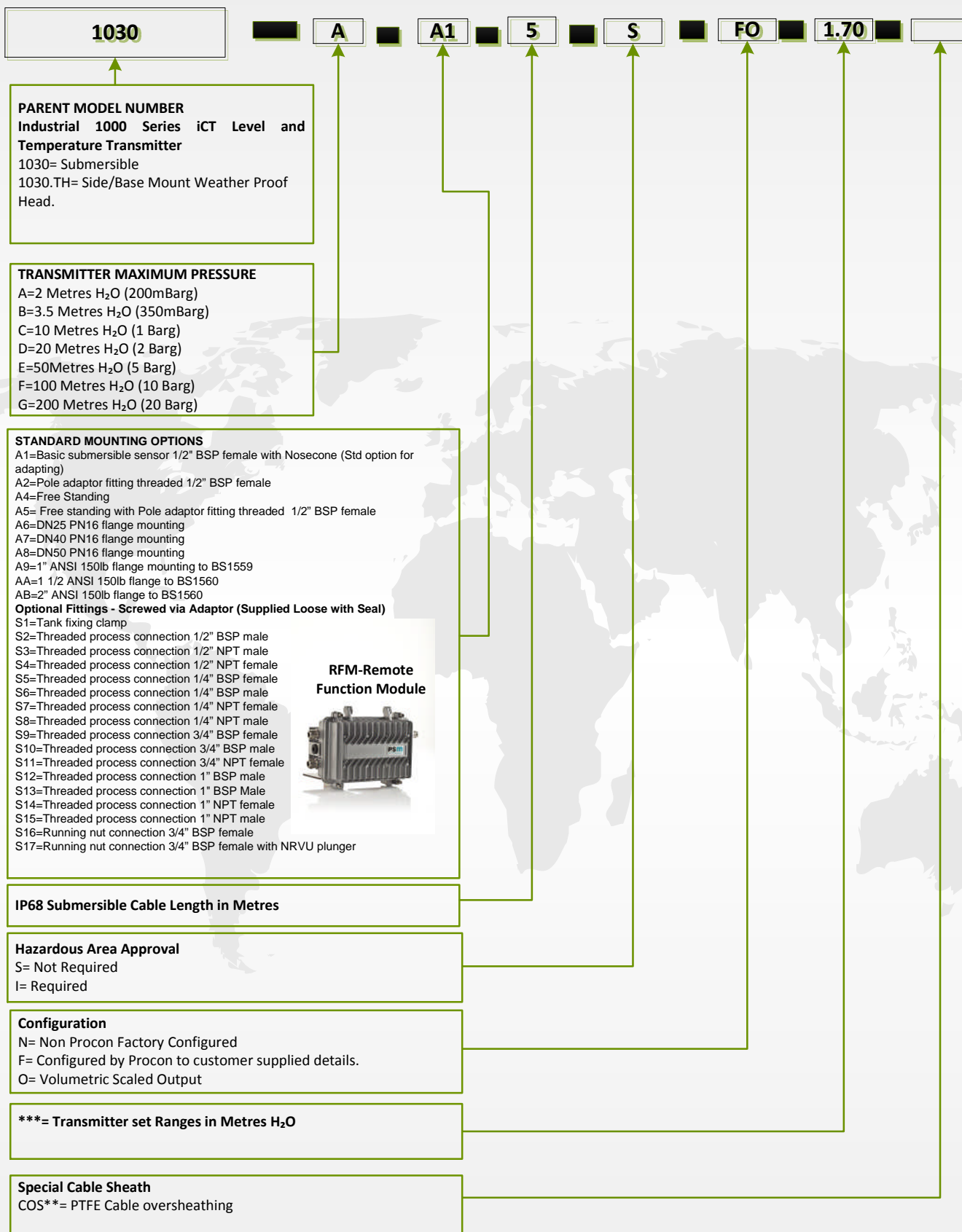
In digital mode iCT can communicate directly with a Host computer, PLC or Intelligent Display via an industry standard RS485 multi-drop network using standard MODBUS protocol.

### SPECIFICATIONS

**Power Supply Digital Mode Only:** 8-30Vdc  
**Power Supply Including Analogue Mode:** 12-30Vdc  
**Accuracy Digital Mode:**  $\pm 0.10\%$   
**Accuracy Analogue Mode:**  $\pm 0.25\%$   
**Accuracy Temperature:**  $\pm 1.0^{\circ}\text{C}$  (Available in digital Mode Only)  
**Range :** Up to 20Barg  
**Analogue Output :** 2 Wire Loop Powered  
**Digital Output:** RS485 MODBUS 2 wire half duplex  
**Sensing Element:** Ceramic-  $\text{A}_2\text{O}_3$  98%  
**Body Construction:** Fusion Welded 316 Stainless Steel  
**Cable:** TPE-E LSHF Thermoplastic Polyester  
**Elastomer:** Low Smoke Halogen Free  
**Operating Temperature:**  $-20^{\circ}\text{C}$  to  $80^{\circ}\text{C}$   
**IP Rating:** IP68 (Suitable for Continuous Immersion)  
**Intrinsic Safety:**



ORDERING CODE



FREE ISS Software Configuration Tool For Ict Level Transmitters is available off the WEB from the link.

<http://www.psmmarine.com/documentation/ict-1000-general-industrial/software>



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