Seametrics PT12 pressure transducers are designed to provide trouble-free submersible operation in liquid environments. PT12 features a rugged and stable piezo-electric media isolated pressure element that compensates for temperature using an onboard digital chip.

FEATURES
- Modbus RTU (RS485) and SDI-12 v1.3 interfaces
- Small diameter – 0.75”
- Pressure and temperature
- Available titanium body
- Specification per OSW technical memo 96.05 option on 15 psig and 30 psig units
- Thermally compensated pressure measurements
- Optional end cone adapter for 300psi max operations

APPLICATIONS
- Monitor groundwater, well, tank, and tidal fluctuations
- Pump testing
- Flow monitoring

CALL GEOTECH TODAY (800) 833-7958
Geotech Environmental Equipment, Inc.
2650 East 40th Avenue • Denver, Colorado 80205
(303) 320-4764 • (800) 833-7958 • FAX (303) 322-7242
email: sales@geotechenv.com website: www.geotechenv.com
## SPECIFICATIONS

### Dimensions

- **Diameter**: 0.75" (1.9 cm)
- **Water Inlets**: 8.44" (21.4 cm)
- **Cable**: 9.28" (0.7 cm)

### Housing & Cable
- **Weight**: 0.8 lb. (0.4 kg)
- **Body Material**: 316 stainless or titanium
- **Wire Seal Material**: Fluoropolymer and PTFE
- **Cable**: Submersible: Polyurethane, polyethylene, or ETFE; 4 lb./100 ft., 1.8 kg/30 m; 2000 ft. max. for Modbus*
- **Desiccant**: 1-3 mm indicating silica gel
- **Field Connector**: Available as an option

### Temperature
- **Operating Range**: Recommended: -15°C to 55°C (5° to 131°F)
- **Storage Range**: -40° to 80°C (-40° to 176°F)

### Power
- **Voltage**: 9-16V DC, 24V DC over voltage protection, electromagnetic & transient protection IEC-61000 – 4-3, 4-4, 4-5, 4-6
- **Supply Current**: Active 3mA average/10mA peak; sleep 150 μA

### Communication
- **Modbus®**: RS485 Modbus® RTU, output=32bit IEEE floating point
- **SDI-12**: SDI-12 (ver. 1.3) – ASCII

### Output Channels
- **Temperature Element**: Digital IC on board
- **Temperature Accuracy**: ±0.5°C — 0° to 55°C (32° to 131°F)
- **Temperature Resolution**: 0.06°C
- **Temperature Range**: -15° to 55°C (5° to 131°F)
- **Compensated**: –

### Depth/Level1
- **Silicon strain gauge transducer, 316 stainless or Hastelloy**: ±0.05% FSO (typical, static)
- **±0.1% FSO (maximum, static)** (B.F.S.L. 20°C)
- **0.0034% FS (typical)**
- **Gauge**: PSI: 12, 7, 15, 30, 50, 100, 300
- **FtH2O**: 12, 35, 69, 115, 231, 692
- **mH2O**: 3.5, 5, 10, 21, 35, 70, 210
- **Absolute1**: PSI: 30, 50, 100, 300
- **FtH2O**: 35, 81, 196, 658
- **mH2O**: 10, 24, 59, 200
- **0° to 40°C (32° to 104°F)**

### Maximum Operating Pressure
- **1.1 x full scale**

### Over Pressure Protection
- **3x full scale up to 300psi – for > 300psi (650 ft. or 200 m) contact factory**

### Burst Pressure
- **1000 psi (approx. 2000 ft. or 600 m)**

### Environmental
- **IP-68, NEMA 6P**

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*Specifications subject to change. Please consult our web site for the most current data. Modbus is a registered trademark of Schneider Electric.

1. Higher pressure ranges available upon request.
2. ±0.25% accuracy FSO (max.) at this range.
3. Depth range for absolute sensors has 14.7 PSI subtracted to give actual depth allowed.

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