



Depth/Level Transmitter - Slim-Line

A1200 Series



- Millivolt or 4-20mA output
- 0.1% or 0.25% accuracy
- Ranges: 0-30" WC to 0-300psig
- 0.725" dia. welded Titanium
- Molded polyurethane cable
- 5 year corrosion warranty

The standard PMC A1200 Series submersible transmitters are specifically designed for depth and level measurements of ground, surface, waste, and sea water. Typical applications are small size bore holes, wells, dams, irrigation, sewage lift stations, rivers and oceanography. The Titanium housing provides immunity to virtually all environments, especially including brackish or sea water, or other chemicals unsuitable for stainless steel. The standard polyurethane vented cable is molded to the transmitter providing the highest integrity waterproof assembly, well proven in thousands of installations worldwide. Kevlar is used to avoid cable elongation when longer lengths up to 5000 feet are required for deep wells. FEP cable is available as an alternate for harsh environments. A feature of the A1200 Series is full scale ranges as low as 30" WC. The sensing technology features a highly stable Piezoresistive element manufactured from micro- machined silicon and supported by more than 20 years experience in depth and level applications. The sensing element is isolated from the media by a Titanium diaphragm, thus providing the best possible reliability for long term installations. Reliability is further enhanced by the anti-shock nose cone which has been specifically designed to protect against water hammer and other external hazards. With a choice of millivolt (low power) or current (4-20 mA) configurations, small physical size and a wide range of pressures, the A1200 Series will satisfy most applications for water level monitoring and control, oceanographic applications and much more.

PMC has also engineered a rugged side entry cable to facilitate the use of their submersible transmitters inside pipes where the level measurement is required under flowing conditions. This is offered as a standard option for "3/4" inch diameter transmitters (see separate data sheet) but can also be provided for other series. The combination of the low profile Transmitter and the side entry cable are ideally suited for installations into sewer pipes to minimize flow restrictions and possible clogging.

Other PMC Products provide smaller size (3/8" dia), clog free (for raw sewage), Intrinsic Safety approvals (for hazardous environments) and many other features and configurations. Please refer to appropriate data sheet.

An extensive range of accessories is available including Sink Weights, Cable Hangers, and a unique method of avoiding water ingress through the breather tube for vented gauge transmitters. Also offered are Calibration Adaptors, Lightning Protection, and Cable Termination Boxes.

Specifications

■ Full Scale Ranges (Zero Based)

0-30, 50" WC

0-1, 5, 10, 15, 30, 50, 100, 150, 300 psig

0-50, 100, 150, 200, 300 psia

Other ranges and pressure units can be specified

■ Accuracy

±0.1% FS (BSL) or ±0.25% FS (BSL)

Combined non-linearity, hysteresis & repeatability

■ Overpressure

Full scale ranges up to 20 psi - >10X

Full scale ranges above 20psi up to 150 psi - >4X

Full scale ranges above 150 psi - >2X

■ Operating Temperature Range

-10° to +85° F (-20° to +80° C) - non freezing

■ Compensated Temperature Range

30° to 115° F (-2 to +30°C)

■ Temperature Effects (Compensated)

High accuracy (±0.1%)

±0.3% TEB for ranges 5 psi and above

±1.0% TEB for ranges below 5 psi

Standard accuracy (±0.25%)

±1.5% TEB for ranges 5 psi and above

±2.0% TEB for ranges below 5 psi

■ Electrical (either)

4-wire bridge: supply voltage: 1-15VDC

Output: 5mv/V typical, ratiometric with supply.

Contact factory for exact output of each range.

Input Impedance: >10k ohm, Bridge: 3k ohm typical

2-wire, 4-20mA, 10-35 VDC power

■ Intrinsically Safe Approvals

For FM/FMC Class I, II, and III Div. 1 Groups A-G

Please refer to PMC

■ Cable – up to 5000ft in single length

Polyurethane molded vented with Kevlar, 4 conductors

Please contact PMC for FEP cable.

■ Housing

Titanium (includes 5-year corrosion warranty)

Please contact PMC for stainless steel

■ Weight (excluding cable)

A1200-XX1 - 4.5oz. A1200-XX3 - 6.5oz.

Ordering Information

A1200-XXX

Depth/Level 0.725" diameter

When ordering please specify the following:

(1) Model number from the table below

MODEL - Construction	
A1200	Depth Cone 0.725"
Housing Material	
5	0.725" dia. Titanium – 5 year warranty
6	0.725" 316L Stainless Steel
Electrical Connection	
1	Polyurethane molded cable
2	FEP cable
Electrical Configuration	
1	10 mV/V ratiometric
3	4-20 mA

(A1200) (5) (1) (1) Example Model Number

(2) Range, including engineering units

(3) Accuracy

(4) Cable length (Polyurethane is standard)

PMC adopts a continuous development program which sometimes necessitates specification changes without notice

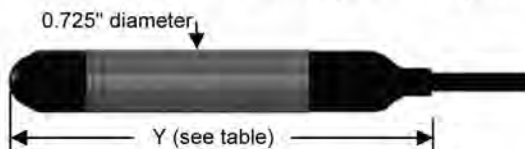
Options & Accessories

PMC offers a range of accessories and variants for depth and level transmitters.

Please contact the factory for further information

Table:

A1200-XX1 (millivolt version) – Y = 4.5" (115mm) max
A1200-XX3 (4-20mA version) – Y = 7.0" (178mm) max



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