



Sanitary Foundation Fieldbus Pressure Transmitter



FEATURES:

- Foundation Fieldbus Protocol for Digital Communications
- Options and mounting configurations for high temperature applications, up to 204°C (400°F)
- Micro-based Design provides best performance of any sanitary transmitter
- Widest choice of sanitary clamp and flushmount "CPM" fittings
- Optional LCD Display available for vertical or horizontal viewing



The Anderson "FPP" series pressure transmitter is a microprocessor-based sensor specifically designed for sanitary fluid process applications in the Pharmaceutical and Bio-technology industry. This product provides an extremely high level of performance combined with the flexibility of digital communication via Foundation Fieldbus protocol. The "FPP" series can be specified in several configurations including high temperature models that are available in direct or remote mount variations. The high temperature direct mount is also recommended for applications where a horizontal orientation is required for display viewing, such as tank tops and overhead lines. All

models comply with UL, "intrinsically safe" requirements for Class 1, Div. 1, Groups A-D, and carry the "CE" mark. The units may be ordered with any of our wide variety of sanitary process fittings.

The "FPP" series communicates digitally with a Foundation Fieldbus host device. This allows configuration of parameters such as range, engineering units, tagging info, and other device specific information, from any accessible point in the network. Anderson's "FPP" series transmitters provide an abundance of information to improve predictive maintenance, plant safety, product quality, and regulatory compliance.

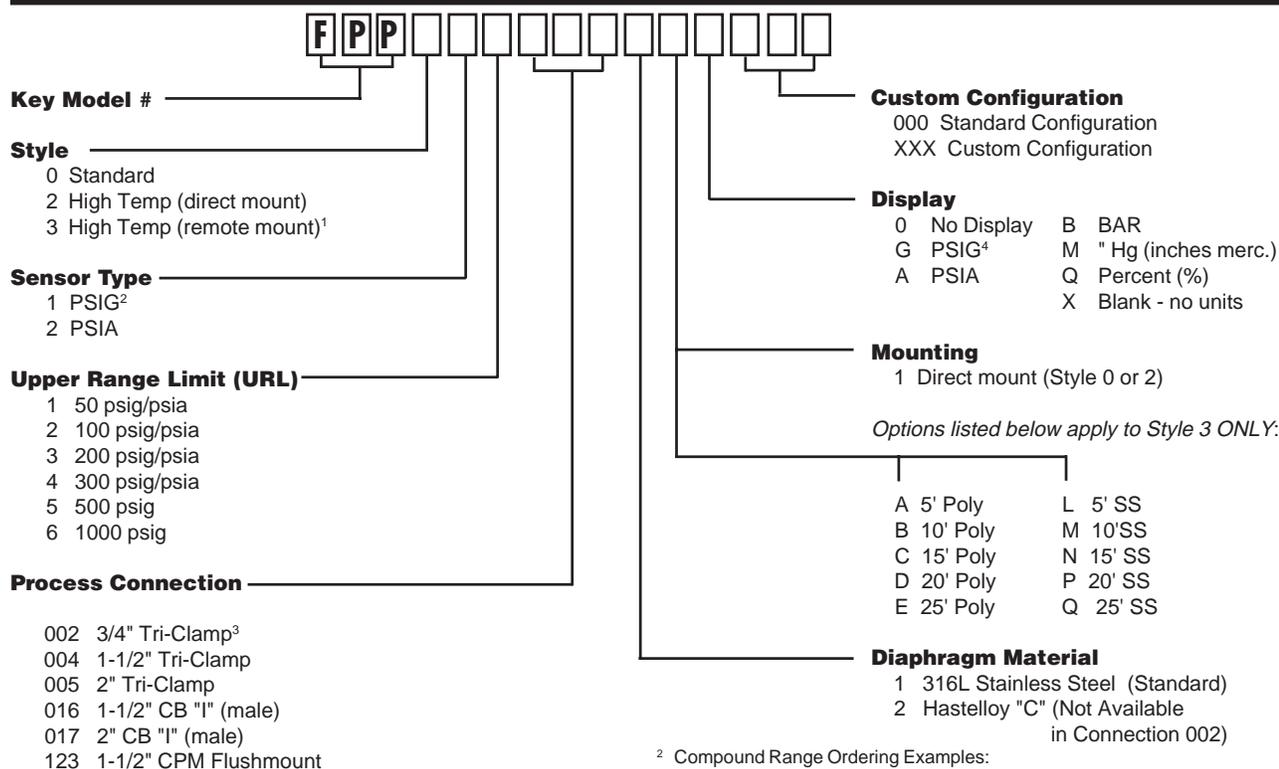
As with all Anderson sensors, the "FPP" series is designed to be cleaned and steam sterilized in place. The optional LCD display can be factory scaled to linear process engineering units, or 0-100%.



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Complete Product Ordering Matrix



¹ Pipe/Wall mount bracket included with remote mount option (Style 3)

² Compound Range Ordering Examples:
For 30-0-50 psig, select 50 psig URL
For 30-0-60 psig, select 100 psig URL

³ Not available with Style 2 or 3

⁴ Vacuum shown as (-) PSIG for compound ranges

GENERAL SPECIFICATIONS

Ranges: Defined by Upper Range Limit (URL)

Rangeability (Turn-down): 10:1 with Foundation Fieldbus host

Over Pressure Limit: 2X URL

Communications: Foundation Fieldbus H1
(31.25kb/s) Bus-powered, 2 terminals

Power Supply: 9-32 volts, D.C.
19 mA typical

Indication: Optional, cap-mounted, 4-digit LCD Indication

Temperature Limits (Process):

- Standard/Direct Mount: -18 to 135°C (0 to 275°F)
- High Temp./Direct Mount: -18 to 177°C (0 to 350°F)**
- High Temp./Remote Mount: -18 to 204°C (0 to 400°F)**

Temperature Limit (Ambient): -18 to 49°C (0 to 120°F)

Hazardous Locations Compliance:

UL Compliance with Class 1, Div. 1, Groups A thru D for intrinsically safe apparatus, when connected with approved barrier system (See instruction manual).

CE Compliance:

Transmitter complies with IEC 61326 Industrial Location.
Accuracy = less than ±2% when subjected to a radiated transmission field of 340 to 410 MHz (field strength of 10V/m 80% AM 1KHz).

Conformance/ ITK Conformance Test (Passed)

Interoperability Tests: Foundation Fieldbus Interoperability (Passed)

Performance Specifications:

Accuracy* (psig ranges): ±0.2% of URL
(psia, compound & vacuum): ±0.3% URL

* Accuracy includes repeatability, hysteresis and linearity.

Repeatability: ± 0.06%
Hysteresis: ± 0.07%
Linearity (BFSL): ± 0.07%
(± 0.17% for psia, compound and vacuum ranges)
Stability: ± 0.3% OF URL/6 months
Process Temp. Effect: 0.05 psi / 5.5°C Typical

Physical Specifications:

Wetted Material Surface Finish: Electropolished to R_a max = 8 microinches (.2 microns)

Wetted Material: 316 "L" Stainless Steel

Housing Material: 304 Stainless Steel

Electrical Connections: 1/2-14NPT conduit with screw terminals.

** Process vacuum in excess of 24" Hg may require slight de-rating of maximum temperature (consult factory).