



FLOW
LEVEL
PRESSURE
ANALYTICAL
TEMPERATURE
INSTRUMENTATION
PASTEURIZATION CONTROLS



"MPF" Modular Pressure Transmitter

- *State of the art sanitary design delivers class leading performance*
- *Replaceable components reduce cost of ownership*
- *Diagnostic routines promote reliability, display verifies problem free operation*
- *Intuitive menu driven setup simplifies commissioning*

APPLICATIONS

- Sanitary pressure line direct or remote measurement
- Process sensor control including pressurized fillers, pressurized vessels, filter monitoring, etc
- Aseptic processing, steam injection and other high temperature processes
- Sanitary environment including wash downs, condensing humidity, and wide temperature swings

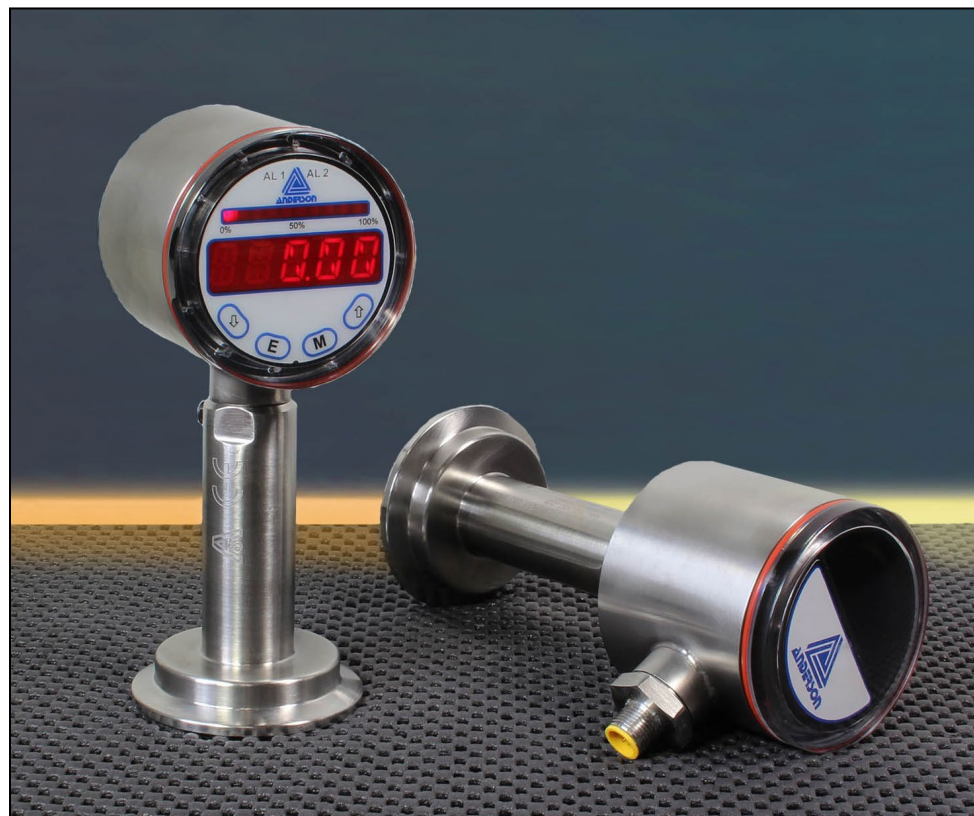
The industry's first fully modular sanitary pressure transmitter offers not only best in class performance within harsh process environments, but also the ability to be custom configured on site both for process parameters and enclosure form factor. Diagnostic routines continuously check on the health of the circuitry and visually report any issues that could impact performance. The illuminated internal display provides a simple user interface to ease start up commissioning and configuration. The optional display interface provides class leading legibility and intuitive configuration functions.

Patent pending dual seals at every enclosure penetration and a fully potted electronic puck

assure long life and problem free operation.

The modular design and universal electronics puck significantly lowers cost of ownership as critical spare inventory is reduced to manageable, replaceable components. When accidents do happen, the damaged component is easily and economically replaced saving the cost of full sensor replacement. While the sensor industry trends toward cheaper designs with the inevitable reduction of durability, and longevity, the MPF provides quality and value through innovation.

For more information on this product, or any of our other products, visit www.andinst.com or call our Customer Service Department directly at 1-800-833-0081.



MPF Specifications

PERFORMANCE MECHANICAL & ELECTRICAL:

Calibrated Accuracy: $\pm 0.10\%$ of calibrated range up to 5:1 turndown
($\pm 0.15\%$ if over 5:1 turndown)

Repeatability: 0.05% as calibrated
Long Term Stability: 0.2% URL for 2 years
Process Temperature Effect: ± 0.1 psi/10°F (5.5°C) typical
Ambient Temperature Effect: ± 0.1 psi/10°F (5.5°C) typical
Over-Range Capability: 30/100/500 psi stem:
1.5x URL no effect on accuracy
2x URL to failure
1000 psi stem:
1.1x URL no effect on accuracy
1.25x URL to failure

Response Time: <100 Milliseconds
Sampling Rate: <50 Milliseconds
Damping: Menu adjustable
Range Turndown Capability: 10 to 1 turn down from URL
Ranges, URL (PSI): 30,100,500,1K gauge and compound
30,100,500 absolute
Ranges, URL (BAR): 2,7,35,70 gauge and compound
2,7,35 absolute

ENVIRONMENTAL:

Process Temperature Limits: 0 to 350°F (-18 to 177°C) with ambient temperatures to 140°F (60°C) and 0 to 330°F (-18 to 165°C) with ambient temperatures to 160°F (71°C)

Ambient Temperature Limits: 32 to 160°F (0 to 71°C)

Enclosure Protection: NEMA 4X & IP66
IP69K(when equipped with QDR)

CONSTRUCTION / FINISH:

Product Contact: 316L finished to a Min. Ra =25 microinches. Optional: Hastelloy® diaphragm
Non-Product Contact Metal: 304 finished to a Min. Ra =32 microinches
Non-Product Contact Plastic: polycarbonate threaded cap. Delrin atmospheric vent
Wiring Connection: M16 x 1.5 threaded housing electrical entry
Equipped with:
Standard - replaceable M12 5 pin Eurofast QDR
Optional - M16 Cord Grip, M16 x 1.5" NPTF adaptor

OPERATIONAL:

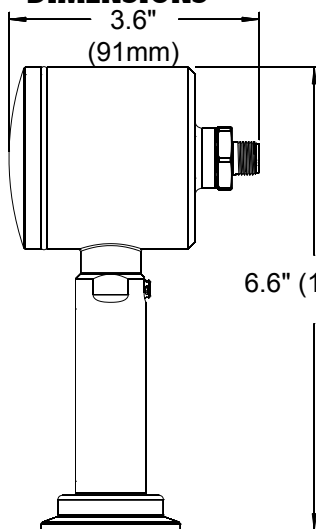
Internal Fill: ETR (Extended Temperature Range) FDA approved mineral oil
Optional Neobee M-20
Output: 2 wire user selectable 4-20 mA DC or 20-4 mA
Internal Display: 4 digit LED nominally displays loop current. Process variable selectable - PSI or BAR.
Loop Resistance: 0-300 ohms at 24 VDC
Electrical Connection: screw terminals with a conductor cross section range of 14-26 AWG
Recommended Cable: Anderson shielded molded cordset, alternatively: 22-24 AWG, foil shielded, 0.17 - 0.26" Cable Sheath OD for use with cord grip or field wiring connector
Electrical Protection: Voltage spike and reverse polarity
Operating Voltage: 18-36 VDC (24 VDC Nominal regulated or unregulated)
Zero Adjustment: one touch
Re-Span: With switch through user interface & with or without a reference pressure source
Electronics Puck: Modular, Field replaceable
Fitting & Sensor Stem: Modular, Field replaceable
Interface Display: Optional; modular field replaceable. PSI, BAR, kPA, In H₂O, In Hg, mm H₂O, mA

APPROVALS AND DOCUMENTATION

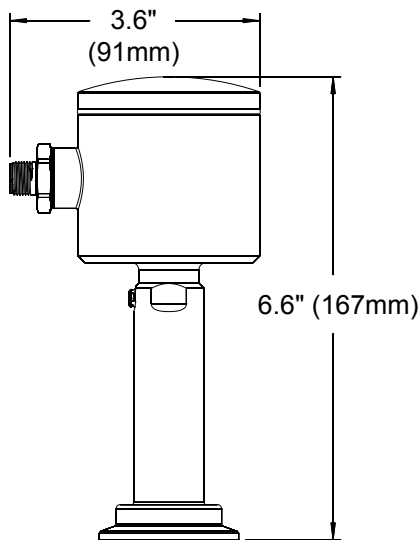
Sanitary: 3-A compliant, Third Party Verified
Compliance: Compliant with the Pressure Equipment Directive relative to Sound Engineering Practices(PED); CE compliant

Warranty: 2 years

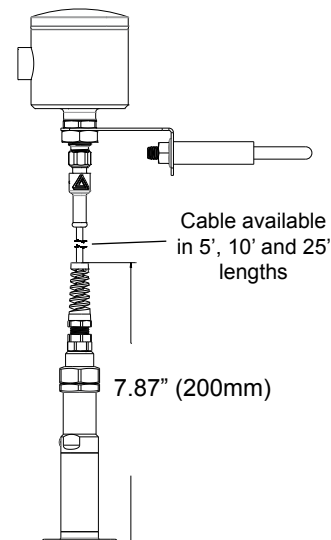
DIMENSIONS



Horizontal Orientation



Vertical Orientation



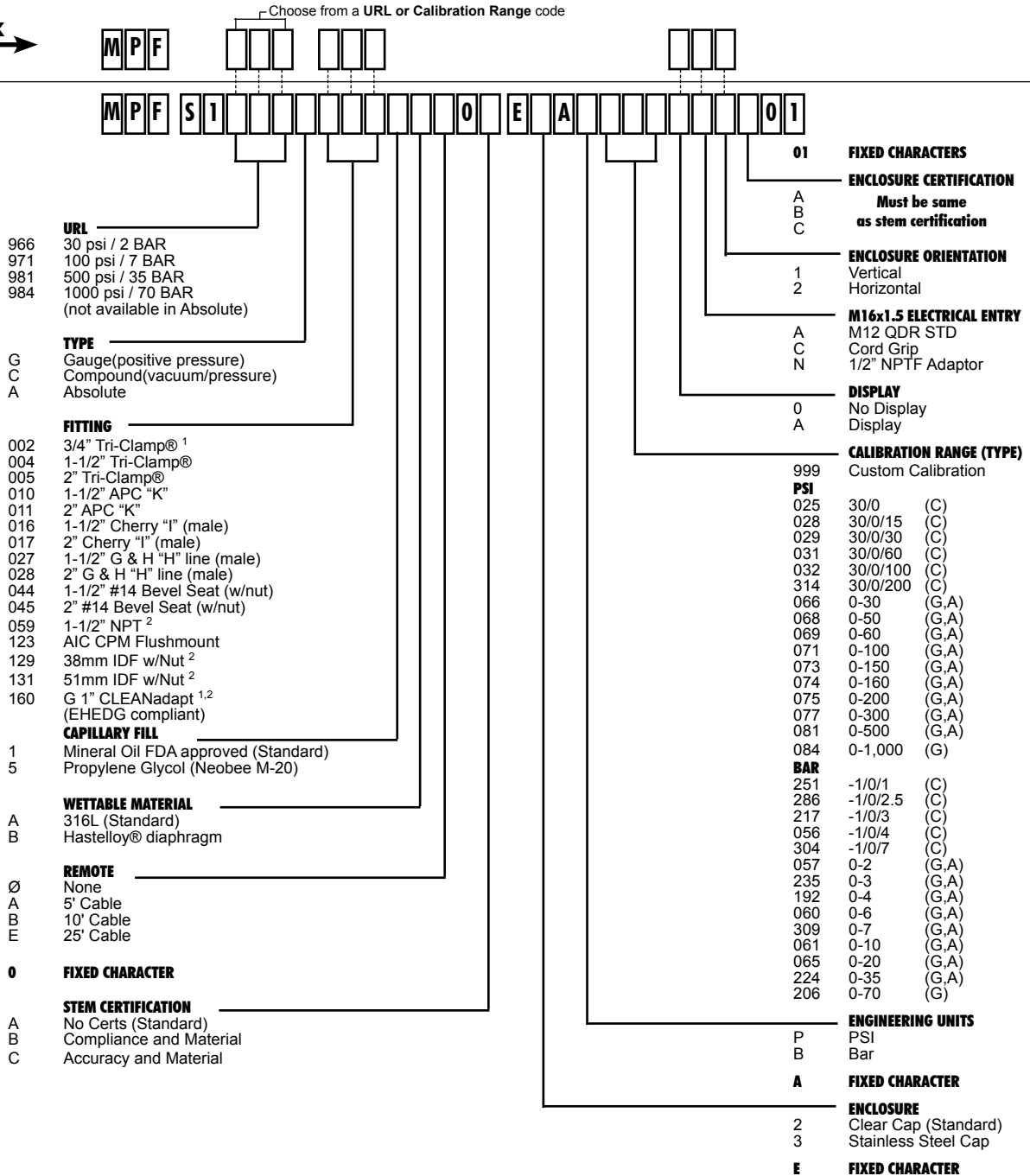
Remote Mounting
(also available in a kit)

Quick Order Instructions:

Quick order numbers may be used when standard no charge features are selected. All choices omitted and not covered below default to the standard option. If a choice other than the standard option is required, the full part number must be utilized.

- 1) Select desired **URL** or **CALIBRATION RANGE** 3 place code
 - a) If URL is selected TYPE will default to Compound and will be calibrated from 0 psig to max range
 - b) If CALIBRATION RANGE is selected, Sensor type will default to (C) Compound or (G) Gauge depending on range
- 2) Select **FITTING** 3 place code
- 3) Select fixed "0", **ELECTRICAL ENTRY** and **ENCLOSURE ORIENTATION**

Quick Part



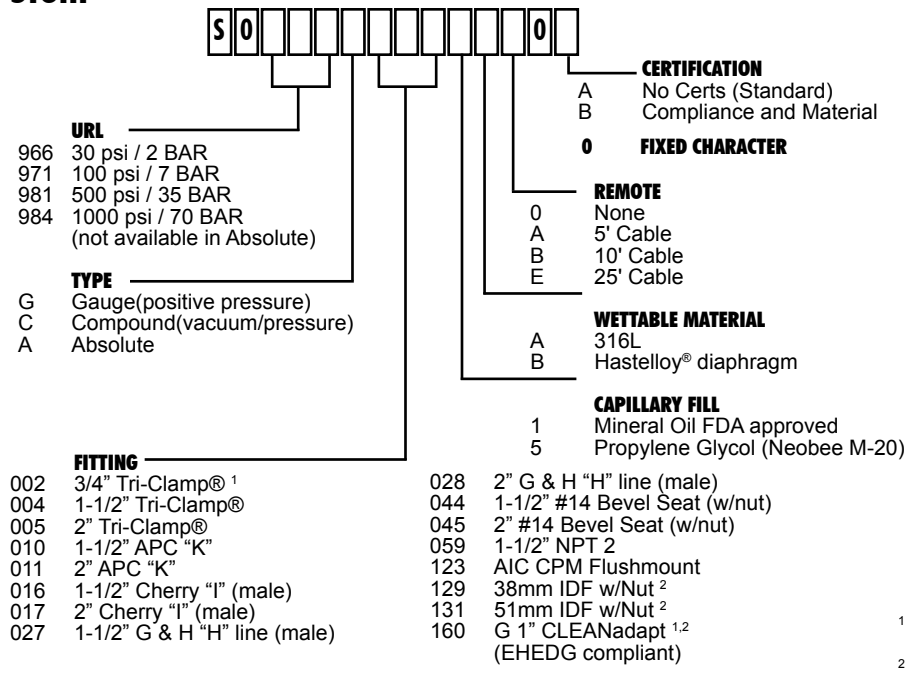
¹ Not available in Hastelloy®

² Not 3-A Compliant

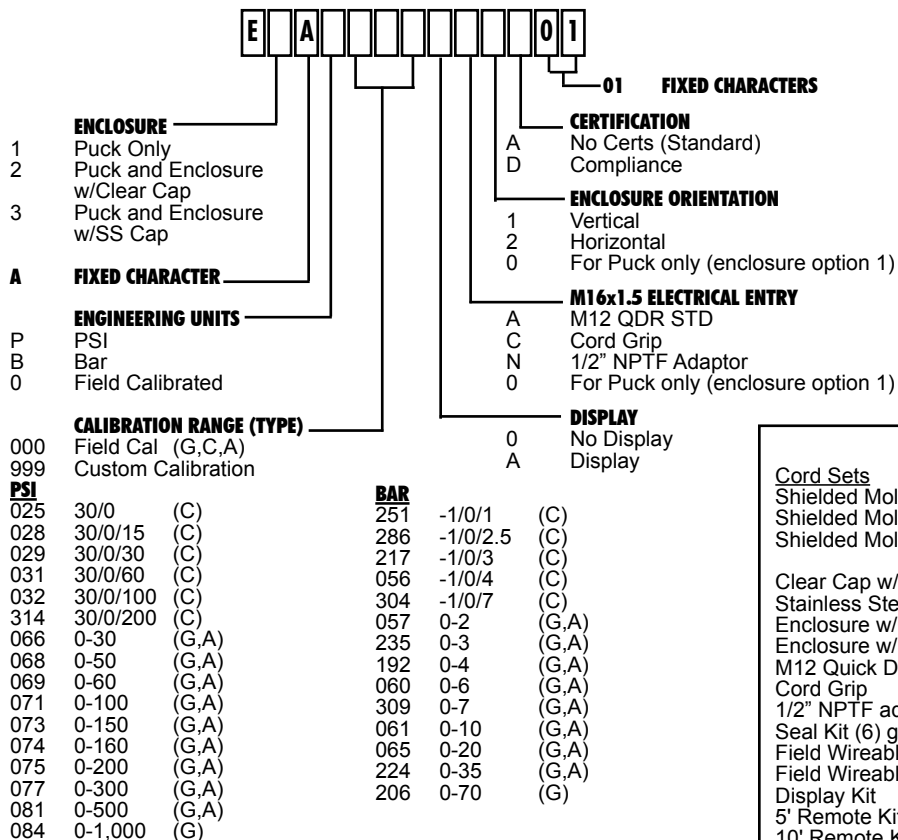
All added cost fittings are non-cancellable/non-returnable and have additional lead times

HOW TO ORDER (modular components)

Stem



Puck/Enclosure



ACCESSORIES

Cord Sets	
Shielded Molded w/25' cable	42117K0025
Shielded Molded w/50' cable	42117K0050
Shielded Molded w/100' cable	42117K0100
Clear Cap w/gaskets	
Stainless Steel Cap w/gaskets	5632900001
Enclosure w/Clear cap w/gaskets	SP5632700001
Enclosure w/SS cap w/gaskets	SP56327A0001
M12 Quick Disconnect Receptacle	SP56726A0002
Cord Grip	SP5633100000
1/2" NPTF adaptor	SP5633200000
Seal Kit (6) gaskets	5633000001
Field Wireable Connector-Straight	42119B0000
Field Wireable Connector-90°	42119A0000
Display Kit	SP56741A0001
5' Remote Kit	SP73228A0005
10' Remote Kit	SP73228A0010
25' Remote Kit	SP73228A0025
Coverplate	SP56741B0001