

Form 1173

The Series 503FR fixed range pressure transmitter is a compact

loop powered pressure transmitter that accurately and reliably measures system pressure at an economical price. The 316 stainless steel pressure port, viton o-ring seal and ceramic sensor make the wetted parts of the 503FR pressure transmitter chemically compatible with most gases and liquids.

Features

- Ranges from 5 to 2000 psig
- 0.25% accuracy
- 4-20 mA, loop powered
- EMI/RFI protection option
- Intrinsically Safe option
- NEMA 4X, IP65 housing







Product Specifications

Accuracy +0.25% of span (BFSL) (Linearity, Hysteresis and Repeatability)

Zero Offset/Span Offset +1.0% of span

@ 77°F (25°C)

Temperature Range

Compensated 32 to 176°F (0 to 80°C)

Operating -4 to 176°F (-20 to 80°C)

Storage -40 to 176°F (-40 to 80°C)

Temperature Effect +1% of span/100°F,

Calibrated @ 77°F (25°C)

Long Term Stability +0.1% of span per year

Over Pressure Protection 1.5X span

Response Time < 25 ms

Supply Voltage 10-32 VDC

(IS option 28 VDC maximum)

Output 4 to 20 mA, loop powered

Loop Resistance 700 ohms maximum

@ 24 VDC

Ciruit Protection Reverse polarity

(EMI/RFI option)

Construction 316SS housing, ceramic

(Al₂O₃) diaphragm,

Viton o-ring

Process Connection 1/4" NPT(F)

Electrical Connection

Size 1/2" NPT(M)

environmentally sealed Termination 24 AWG shielded cable,

6 foot length

Shipping Weight 1.1 lb (499 kg)

Warranty 1 year

Design and specifications are subject to change without notice.

Agency Approvals

Agency	Safety Method	Approval	Model(s)
CENELEC	Intrinsically Safe	EEx ia IIC T4	503FR-xxx-IS
CE Marked	EMC Directive 89/336/EEC	IEC 801, Parts 2, 3 & 4	503FR-xxx-IS 503FR-xxx-CE

Sample Model Number

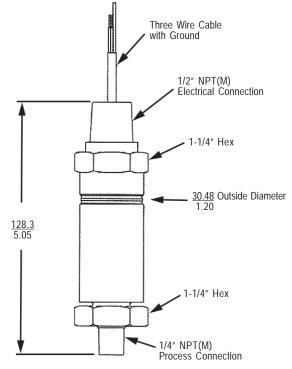
503FR-50 - IS

503FR Fixed Range Pressure Transmitter with 0-50psi range and certified Intrinsically Safe.

	Range	1		
	0-5 psi (0-0.35 bar) 0-10 psi (0-0.7 bar) 0-15 psi (0-1.0 bar) 0-25 psi (0-1.7 bar)	5 10 15 25	2	Accessories
	0-50 psi (0-3.5 bar) 0-200 psi (0-14 bar) 0-500 psi (0-35 bar) 0-1000 psi (0-70 bar) 0-2000 psi (0-140 bar)	50 200 500 1K 2K	CE IS RR	CE marked, EMI/RFI Protected Intrinsically Safe; CE Marked, EMI/RFI Protected SS tag wired to control with customer specified tag information
	503FR	50	IS	◀ Model Number
Dimensions				

Dimensions shown are for reference only. Contact the factory for certified dimension drawings. Linear = mm/in.

503FR





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