

Погружные датчики. Серия 510. Описание.

По вопросам продаж и поддержки обращайтесь: sro@nt-rt.ru

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510IM Fixed Range Pressure Transmitter

The 510 immersible pressure transmitter is a compact loop-powered transmitter that accurately and reliably measures pressure on equipment that is either continuously or frequently immersed in fluids. The 316 stainless steel pressure port and housing, viton o-ring seal and ceramic sensor make the wetted parts of the 510 immersible pressure transmitter chemically compatible with most gases and liquids.

Features

- Ranges from 5 to 2000 psig
- 0.25% accuracy
- 4-20 mA, loop powered
- Intrinsically Safe option
- IP68 housing



510IM

Product Specifications

Accuracy 0.25% of sensor range
(Linearity, Hysteresis and Repeatability)

Zero Offset/Range Offset $\pm 0.5\%$ of range
@ 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
Span $\leq 1\%$ of range per 100°F,
Calibrated @ 77°F (25°C)

Long-Term Stability $\pm 0.1\%$ of sensor range per year

Over-Pressure Protection 1.5X sensor range

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

Circuit Protection Reverse polarity
protected

Construction 316SS housing & butyl rubber cable
gland*, ceramic (Al₂O₃) diaphragm,
viton seals, HDPE cable jacket

Process Connection 1/4" NPT(M)

Electrical Connection 20 AWG shielded cable

Maximum Cable Length 5000 ft. (1524 m)

Weight Transmitter: 1.0 lb. (454 g);
Cable: 0.04 lb./ft. (60 g/m)

Warranty 1 Year

* SOR 510 submersible products should not be used in liquids known to have or possibly contain chemical compounds that react with butyl rubber or stainless steel.

510IM Immersible Pressure Transmitter

How to Order

Sample Model Number

510IM- 20 - CL - IS

510IM Immersible Pressure Transmitter with 0-20psi span (2 bars range, 12M cable and certified Intrinsically Safe. (Cable length must be specified.)

Span		1		
	Sensor Range		2	Cable Length
0-5 psi (0-0.35 bar)	1 BAR	5	5	5 ft. (1.5 m)
0-10 psi (0-0.7 bar)	1 BAR	10	10	10 ft. (3.0 m)
0-15 psi (0-1.0 bar)	2 BAR	15	15	15 ft. (4.5 m)
0-20 psi (0-1.4 bar)	2 BAR	20	20	20 ft. (6.0 m)
0-35 psi (0-2.5 bar)	5 BAR	35	CL	1 to 5000 ft. (0.3 to 1524 m)
0-50 psi (0-3.5 bar)	5 BAR	50		custom length (must be specified)
0-100 psi (0-7.0 bar)	10 BAR	100		
0-200 psi (0-14 bar)	20 BAR	200		
0-500 psi (0-35 bar)	50 BAR	500		
0-1000 psi (0-70 bar)	100 BAR	1K		
0-2000 psi (0-140 bar)	200 BAR	2K		
Custom span from 5-9.99 psi (0.35-0.69 bar)	1 BAR	R1		
Custom span from 10-21.99 psi (0.70-1.51 bar)	2 BAR	R2		
Custom span from 22-49.99 psi (1.52-3.4 bar)	5 BAR	R3		
Custom span from 50-99.99 psi (3.5-6.9 bar)	10 BAR	R4		
Custom span from 100-199.99 psi (7.0-13.8 bar)	20 BAR	R5		
Custom span from 200-499.99 psi (14-34 bar)	50 BAR	R6		
Custom span from 500-999.99 psi (35-69 bar)	100 BAR	R7		
Custom span from 1000-2000 psi (70-140 bar)	200 BAR	R8		
Note: Custom span must be specified.				
510IM		20	CL	IS
				← Model Number
			3	Accessories and Certificates
			IS	Intrinsically Safe (845 ft./ 257.5m maximum cable length)
			RR	SS wired to control with customer-specified information
			C1	Calibration Certificate
			C3	Inspection Certificate

510IM Immersible Pressure Transmitter

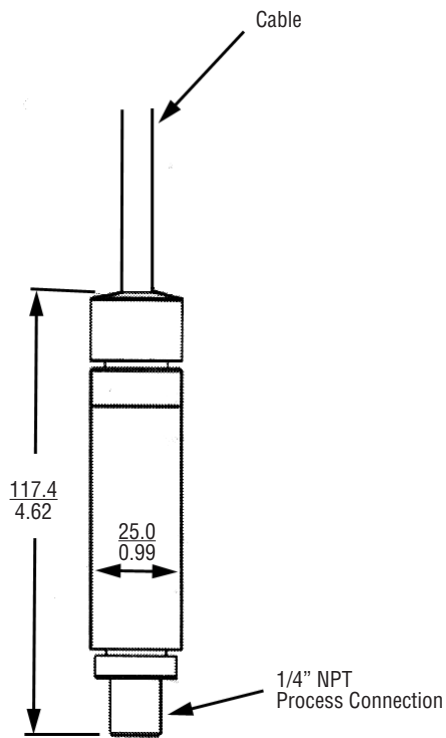
Agency Approvals

Agency Approvals

Approved	Safety Method	Listing String	Model(s)
ATEX	Intrinsically Safe	II1G EEx ia IIC T4 (Ta max = 90°C)	510IM-xxx-xx-IS

Dimensions

510IM



WARNING! Do not twist the wires during installation or servicing the instrument as it may break the integrity of the seal between the wires and the transmitter.



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