

Form 1174

# The Series 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





4 to 20 mA, loop powered

**Reverse polarity** 

1/4" NPT(M)

ohms maximum @ 24 VDC

6SS housing & cable gland, ceramic  $(Al_2O_3)$  diaphragm, n seals, HDPE cable jacket

20 AWG shielded cable

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

5000 ft. (1524 m)

1 Year

### **Product Specifications**

Accuracy (Linearity, Hysteresis and	+0.25% of span (BFSL) Repeatability)	Output
Zero Offset/Span Offset	+0.5% of span @ 77°F (25°C)	Loop Resistance 700 o
Temperature Range		Ciruit Protection
Compensated Operating Storage	32 to 176°F (0 to 80°C) -4 to 176°F (-20 to 80°C) -40 to 176°F (-40 to 80°C)	Construction 316 cr vitor
Temperature Effect Span	+1% of span per 100°F, Calibrated @ 77°F (25°C)	Process Connection Electrical Connection
Long Term Stability	+0.1% of span per year	Maximum Cable Length
Over Pressure Protection	1.5X span	Shipping Weight
Response Time	<25 ms	
Supply Voltage	10-32 VDC (IS option 28 VDC maximum)	Warranty

Design and specifications are subject to change without notice.

## 510IM Immersible Pressure Transmitter

Sample Model Number

## 510IM- 20 - CL - IS

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

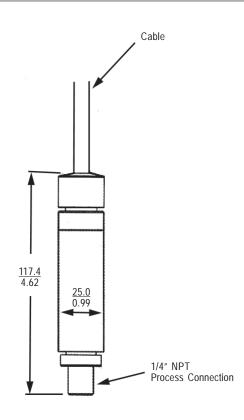
Rencee   0,5 psi (0,0,3 psi)   0,10 psi (0,0,7 psi)   0,15 psi (0,1,0 psi)   0,15 psi (0,1,0 psi)   0,20 psi (0,1,4 psi)   0,20 psi (0,2,5 psi)   0,200 psi (0,2,5 psi)   0,200 psi (0,2,5 psi)   0,200 psi (0,2,5,0,2,5)   0,200 psi (0,2,5,0,2	5 10 15 20 35 50 100 200 500 1K 2K R1 R2 R3 R4 R5 R6 R7 R8	2 5 10 15 20 CL	5 ft. (1.5 10 ft. (3. 15 ft. (4. 20 ft. (6. 1 to 500	0 m) 5 m)
510IM	20	CL	IS	Model Number

## 510IM Immersible Pressure Transmitter

#### **Agency Approvals**

Agency	Safety Method	Approval	Model(s)
CENELEC	Intrinsically Safe	EEx ia IIC T4	510IM-xxx-xx-IS

#### **Dimensions**



#### 510IM



## **Process Instrumentation**

#### SOR INC.

14685 West 105th Street Lenexa, Kansas 66215

Phone 913-888-2630 Toll Free 800-676-6794 Fax 913-888-0767

#### www.sorinc.com

**Registered Quality System to ISO 9001**