

# IPT122 Series 2 Inch Stainless Steel Indicating Pressure Transmitters

High purity applications

- » Compact unit for easy installation into new or existing gas systems
- » Local or remote indication of system pressure to ensure process accuracy and protect product yields
- » High purity for use in all application environments



## Product Description

With a variety of outputs available, Celerity's IPT122 series 2 inch stainless steel Indicating Pressure Transmitters (IPT) are very versatile devices. Accurate within 1% of full scale, the IPT can provide 0 to 5 VDC, 1 to 5 VDC or 4 to 20 mA outputs with pressure ranges up to 4,000 psi. The IPT is cleaned and double bagged in a Class 100 environment for ultimate high purity.

## Features

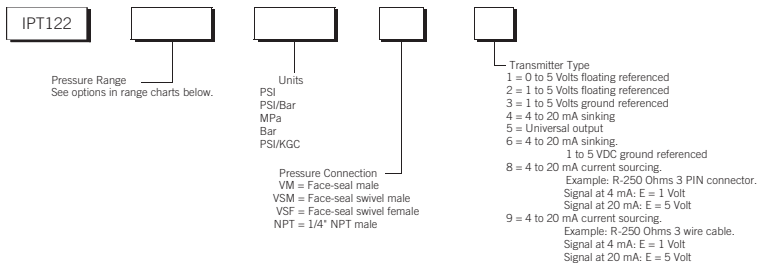
- Solid-state design with 1 to 5 VDC, 0 to 5 VDC or 4 to 20 mA outputs
- Universal output configuration available
- Local and remote pressure monitoring
- Interfaces with automatic purge systems, PLCs or data acquisition systems
- 1 year warranty

## Applications

Gas delivery systems and tools used for semiconductor processing, including:

- Bulk gas
- Gas cabinets
- Gas distribution
- Gas panels

## Product Configurations



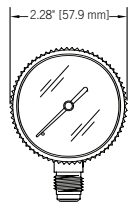
Range	Figure Intervals*	Smallest Interval*
30-0-15	10 in Hg-3 psi	2 in Hg-1 psi
30-0-30	10 in Hg-5 psi	2 in Hg-1 psi
30-0-60	30 in Hg-10 psi	5 in Hg-2 psi
30-0-100	30 in Hg-20 psi	5 in Hg-2 psi
30-0-160	10 in Hg-25 psi	10 in Hg-5 psi
30-0-200	30 in Hg-40 psi	10 in Hg-5 psi
30-0-300	10 in Hg-50 psi	15 in Hg-10 psi

Range	Figure Intervals*	Smallest Interval*	ohm/1*
0-30	5	1	
0-60	10	2	
0-100	20	2	
0-160	40	5	
0-200	40	5	
0-300	50	10	

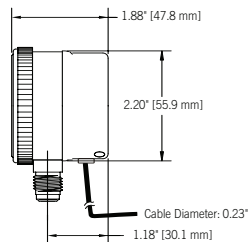
Range	Figure Intervals*	Smallest Interval*	ohm/1*
0-400	100	10	
0-600	100	20	
0-1000	200	20	
0-3000	500	100	
0-4000	1000	100	

\* All figure intervals and smallest interval depicted in this chart represent typical artwork layout and may not be accurate for all gauges.

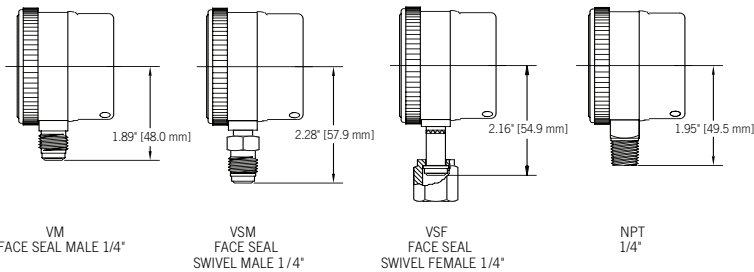
## Product Dimensions



FRONT VIEW



SIDE VIEW



VM  
FACE SEAL MALE 1/4"

VSM  
FACE SEAL  
SWIVEL MALE 1/4"

VSF  
FACE SEAL  
SWIVEL FEMALE 1/4"

NPT  
1/4"

## IPT122 2 Inch Stainless Steel Indicating Pressure Transmitter Specifications

Case Material	300 Series Stainless Steel, electropolished
Bezel and Lens Material	One-piece polycarbonate, screw-on
Socket	316L stainless steel
Movement	300 Series Stainless Steel
Bourdon Tube	316L Stainless Steel
Proof Pressure	110%
Burst Pressure	400%
Connections	Face-seal male, face-seal swivel male, face-seal swivel female and 1/4" NPT male
Dial	White with black marking. "Use No Oil" is red
Accuracy	1% of full scale
Helium Leak Check	4 x 10 <sup>-9</sup> Inboard Std. cc/sec
Cleaning	Cleaned for oxygen service to ANSI B40.1 level IV specifications
Response Time	Less than 200 milliseconds
Operating (ambient)	0° to 160°F (-18° to 71°C)
Compensating	20° to 135°F (-7° to 57°C)
Storage	-20° to 175°F (-29° to 79°C)
Voltage In	11.5 to 30 VDC (12 VDC recommended)
Voltage Stability	Filtered power supply with noise < 2mV RMS, ripple < 6 mV P-P
Operating Current	40 mA maximum short circuit to ground, 8 mA continuous load, 10 mA maximum intermittent

### Output Voltage

Type 1	0-5 VDC
Type 2	1-5 VDC
Type 3	1-5 VDC ground referenced
Type 4	4-20 mA sinking
Type 5	0-5 VDC or 1-5 VDC, or 4-20 mA current sink
Type 6	1-5 VDC ground reference, 4-20 mA sinking
Type 7	4-20 mA sourcing
Type 8	4-20 mA sourcing
Output Current	40 mA max. short circuit to ground. 10 mA continuous load.
Transmitter Leads	2 m [6'] cable, tinned ends, 0.23" in diameter
Pressure Ranges Available	Vacuum to 4,000 PSI (276 bar). Metric also available (See chart on the left)
Approximate Shipping Weight	8.5 lbs. (0.39 kg)



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