

Brooks® IPT122 Series 2 Inch Stainless Steel Indicating Pressure Transmitters

- » 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, Brooks' 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.

Features

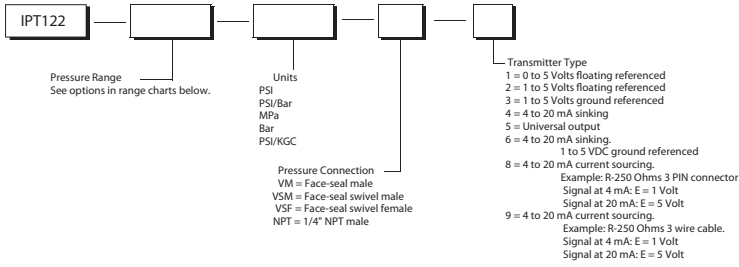
- Solid-state design with 1 to 5 VDC, 0 to 5 VDC or 4 to 20 mA outputs
- Universal output configuration available
- Local and remote pressure monitoring
- Interfaces with automatic purge systems, PLCs or data acquisition systems

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

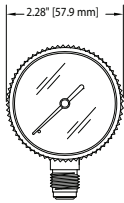
Range	Figure Intervals*	Smallest Interval*
0-30	5	1
0-60	10	2
0-100	20	2
0-160	40	5
0-200	40	5
0-300	50	10

NOTE:
All ranges listed are in Hg and/or psi. If a scale other than Hg or psi is required, convert the pressure range code to the customer specified units and use that in the product description code when specifying the product.
For dual range specify the range code for the first engineering unit (Ex. For a dual range with units of KGC/KPA the range should be specified in KGC).

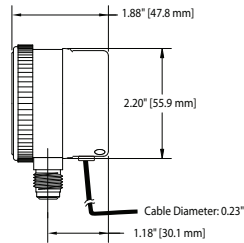
Range	Figure Intervals*	Smallest Interval*
0-400	100	10
0-600	100	20
0-1000	200	20
0-3000	500	100
0-4000	1000	100

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

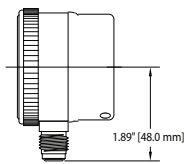
Product Dimensions



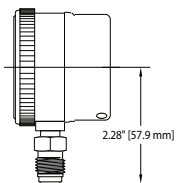
FRONT VIEW



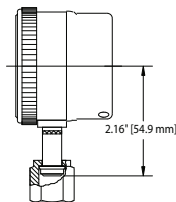
SIDE VIEW



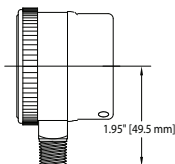
VM
FACE SEAL MALE 1/4"



VSM
FACE SEAL
SWIVEL MALE 1/4"



VSF
FACE SEAL
SWIVEL FEMALE 1/4"



NPT
1/4"

HELP DESK

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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
Burst 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 ⁻⁹ 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 8	4-20 mA sourcing, 3 Pin Molex connector with 10' cable
Type 9	4-20 mA sourcing 6' cab/w with tinned ends
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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DS-PR-IPT122-eng (supersedes PF404 Rev. 0) D/10