Brooks[®] IPS122 Series 2 Inch Stainless Steel Indicating Pressure Switches

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



Product Description

The Brooks Instrument IPS122 Series 2 inch stainless steel indicating pressure switches provide a high purity, precision pressure gauge and electronic switch with an adjustable pressure switch setpoint. This compact 2 inch unit has the ability to operate lights or relays up to a maximum of 12 watts. Available in a variety of pressure ranges and process connections and this device provides solid state switching for cleanroom and hazardous applications.

Features

- · Local and remote alarm capability
- Local indication of pressure reading and switch position (normally open or normally closed)
- Solid state design for hazardous
 environments
- Switches welded in oxygen-free chambers to meet rigid cleanliness and safety guidelines
- · 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*		Range	Figure Intervals*	Smal
30-0-15	10 in Hg–3 psi	2 in Hg–1 psi		0-30	5	
30-0-30	10 in Hg–5 psi	2 in Hg–1 psi		0-60	10	
30-0-60	30 in Hg–10 psi	5 in Hg–2 psi		0-100	20	
30-0-100	30 in Hg–20 psi	5 in Hg–2 psi		0-160	40	
30-0-160	10 in Hg–25 psi	10 in Hg–5 psi		0-200	40	
30-0-200	30 in Hg–40 psi	10 in Hg–5 psi		0-300	50	
30-0-300	10 in Hg–50 psi	15 in Hg–10 psi	1			

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

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).

st Interval*

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



HELP DESK

In case you need technical assistance: Americas 🖀 1-888-554-FLOW **T**+(31) 318 549 290 Europe T +011-81-3-5633-7100 Asia

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IPS122 Series 2 Inch Stainless Steel Indicating **Pressure Switches 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				
A					
Accuracy	1% OF TUIL Scale				
	4 x 10 Indoard Std. cc/sec				
Cleaning	R40 1 lovel IV specifications				
Response Time	Less than 200 milliseconds				
Operating (ambient)	0° to 160° E (-18° to 71° C)				
Compensating	20° to 135° E (-7° to 57° C)				
Storage	-20° to 175° E (-29° to 79° C)				
otorage	20 10 110 1 (23 10 13 0)				
Switch Power Input					
Off On Switch Type 1					
	9 10 30 VDC				
Logic Output 5 VDC Type 3	4.8 to 5.2 VDC				
	1.0 10 0.2 000				
Switch Power Rating					
Off-On Switch Type 1	12 watts or 500 mA				
	175 mA max. for intrinsically safe applica				
	tions				
Logic Output 8 to 30 VDC					
Type 2	60 mA (sink). Open collector NPN				
Logic Output 5 VDC Type 3	60 mA (sink). Open collector NPN				
Output Voltage and Cu	rrent Draw				
Off-On Switch Type 1	0 to 9–30 VDC: 30 mA (off) 45 mA (on)				
Logic Output 8–30 VDC					
Type 2	0 to 9–30 VDC; 30 mA (off), 45 mA (on)				
Logic Output 5 VDC Type 3	0 to 5 VDC; 3 mA (off), 11 mA (on)				
Switch leads	2 m [6'] cable, tinned ends, 0.23" in				
	diameter				
Switch Differential	3% of scale; 0.25% of scale repeatability				
Trip Position	External adjust. Select to trip on				
	ascending(N.O.) or descending (N.C.)				
	pressure. (Field changeable by internal				
	jumper.)				
Pressure Ranges Available	Vacuum to 4,000 PSI (276 bar). Metric				
	also available. Offered in single scale				
	only.(See chart on the left)				
Approximate Shipping	0.65 lbs (0.20 kg)				
weight	0.03 lbs. (0.29 kg)				

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