Model 1000

TM

Solid State Pressure Switch

Overview

The Model 1000 is a high quality, stainless steel media isolated Solid State Pressure Switch. This highly repeatable switch is designed for use when measuring gases and liquids that are compatible with stainless steel. The Model1000 is offered with factory set switch points. Packaged with heavy duty relay contacts, as well as high electrical isolation, this pressure switch is built to handle a wide variety of applications. The Model 1000 is ideal for applications that require consistent repeatability, excellent long-term stability, trouble free operation, long life and high performance with a competitive price.

Benefits

- → High Strength Stainless Steel Construction
- ◆ No Silicone Oil, No Internal O-rings, No Welds
- → Wide Operating Temperature Range
- ◆ Switch Points up to 10,000 PSI
- ◆ Switching Capability of 1 Amp @ 24VDC or 0.5 Amps @ 125VAC, max
- Low Static and Thermal Errors
- Unparalleled Price to Performance Ratio
- Rugged Design Survives Harsh Environments
- Compatible with a Wide Range of Liquids
- Suitable for High Shock and Vibration Applications

Applications

- ◆ OEM Equipment
- Compressors
- Test Stands
- Refrigeration
- Off Road
- Pneumatics
- Process Control
- Semiconductor Processing

Performance @ 25°C (77°F)				
Stability (1 year)	±0.25% FS, typical			
Repeatability	< ±0.5% FS, typical			
Proof Pressure*	of Pressure* 2X System Pressure Max			
Burst Pressure	5X System Pressure Max or 20,000 PSI whichever is less.			
Pressure Cycles	> 1 Million			
Reaction Time	< 100 msec, typical			
*System Pressure Max must not exceed Proof Pressure. Please consult factory for custom Proof Pressure.				

Krystal Fechnology	

Environmental Data						
Temperature						
Media	-55 to 125°C (-65 to 250°F)					
Operating	-40 to 85°C (-40 to 185°F)					
Storage	-55 to 125°C (-65 to 250°F)					
Thermal Limits						
Compensated Range	0 to 55°C (30 to 130°F)					
Thermal Error	<±2% of FS					
Other						
Shock	100G, 11 msec, 1/2 sine					
Vibration	10G peak, 20 to 2000 Hz.					
EMI/RFI Protection:	Yes					
Rating:	IP-66					

Electrical Data	
Voltage Supply	10-32VDC, typical
Switching Current	1 Amp @ 24VDC or 0.5 Amps @ 125VAC
Output Type	Open or Closed, Customer to Define Switching Point
Reverse Polarity	Yes



Ordering Information

000

1000 00100 Series Type **Process Connection** A= 1/4"-18 Male NPT B= 1/8"-27 Male NPT C= 1/4"BSPP N= 1/4" VCR Male **Switch Point** Insert Switch Point code: Chart 1 **Pressure Unit** B= BAR | K= kg/cm2 | P= PSI **Switch Configurations** C= Normally Open D= Normally Closed E= Normally Open (1 pair) & Normally Closed (1 pair)* System/Line Pressure, Max. Insert Max PSI code from Chart 2 Electrical Interface⁺ A= 2 ft. E= Mini DIN 43650 Connector B= 4 ft. I= DIN 43651 Connector C= 6 ft. R= 6 Pin Bendix Connector* D= 10 ft. **Wetted Material** 0= 17-4PH Stainless Steel 1= 316L Stainless Steel

Chart 1 Cha	art 2
-------------	-------

Switch Point** PSIG	Code	Max PSI+	Code
25	00025	50	01
50	00050	100	02
100	00100	250	03
250	00250	500	04
500	00500	1000	05
1000	01000	2500	06
2500	02500	5000	07
5000	05000	7500	08
10,000	10000	10,000	09

^{**}Typical Switch Points. All SwitchPoints between 25PSI and 10,000 PSI are available. Please consult factory

+Note: Switch Point, Min. must be at least 10% of System/Line Pressure, Max.

*Note: Switch Configuration "E" only, available with DIN43651 and 6 Pin Bendix Electrical Interfaces.

Options

00= No special potions

Dimensional Data pin 7 (NC) pin 3 pin 4 pin 5 pin 4 pin 5 Seven Pin Connectori DIN43651 AM 6-22 Warranty

Workmanship - AST, Inc. pressure transmitters have a limited one-year warranty to the original purchaser. AST, Inc. will replace or repair, free of charge, any defective transmitter. This warranty does not apply to any units that have been modified; misused, neglected or installed where the application exceeds published ratings. AST's sensors are made with pride in New Jersey, USA. If in the area please feel free to stop by for a visit!

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter.

Please consult factory.

^{*}Wiring information available at: http://www.astsensors.com/mediacenter.php