

Model 1000



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 Model 1000 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*	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.

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

Environmental Data

Temperature

Operating	-55 to 125°C (-65 to 250°F)
Storage	-40 to 85°C (-40 to 185°F)

Thermal Limits

Compensated Range	-55 to 125°C (-65 to 250°F)
TC Zero	0 to 55°C (30 to 130°F)
TC Span	<±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

