



## EXPLOSION-PROOF

### SPDT Solid State Pressure Switch AST46SW

#### Overview

The Model 46SW is a high accuracy Explosion-proof Pressure Switch, designed for use in a variety of applications. Applying digital compensation, this product offers top performance over a wide temperature range. Utilizing Krystal Bond Technology™, the sensing element will measure pressure in the most extreme temperature conditions. Where other sensor technologies will freeze or boil, the AST46SW uses a one piece stainless steel sensor to offer continuous operation. If linearity and repeatability are critical for your application, this product will exceed your expectations at an affordable price.

#### Benefits

- ◆ ATEX / IECEx: Class I, Zone 1, Ex d IIC T5 Gb (Ta = -40°C to 85°C)
- ◆ CSA30 (UL1203 / FM3615) Class I Div 1 and Zone 1 Group IIC Explosionproof - Groups A, B, C, D
- ◆ ANSI 12.27.08-1 Single Seal Approved
- ◆ ASIC Compensation
- ◆ Superb Temperature Performance
- ◆ Wide Operating Temperature
- ◆ Excellent Accuracy
- ◆ High Proof and Burst Pressure
- ◆ Factory Sealed

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### Applications

- ◆ Well Optimization
- ◆ Oil and Gas Pipelines
- ◆ Drilling Platforms
- ◆ CNG / Hydrogen Fill Stations
- ◆ Paint Booths
- ◆ RTU
- ◆ Combustion Controls

### Performance @ 25°C (77°F)

<b>Error Tolerance</b>	<±1.0% BFSL of line pressure
<b>Over range Protection</b>	2X rated line pressure, standard (for higher proof pressures, contact factory)
<b>Burst Pressure</b>	5X or 60,000PSI of line pressure, whichever is less
<b>Pressure Cycles</b>	> 100 million full pressure cycle

### Environmental Data

#### Temperature

<b>Operating</b>	-40 to 85°C (-40 to 185°F)
<b>Storage</b>	-55 to 105°C (-67 to 221°F)

0-100% relative humidity, non-condensing

#### Thermal Limits

<b>Compensated Range</b>	-20 to 70°C (-4 to 158°F)
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#### Other

<b>Shock</b>	100G, 11 msec, 1/2 sine
<b>Vibration</b>	10G peak, 20 to 2000 Hz.
<b>EMI/RFI Protection:</b>	Yes
<b>Rating:</b>	IP-66

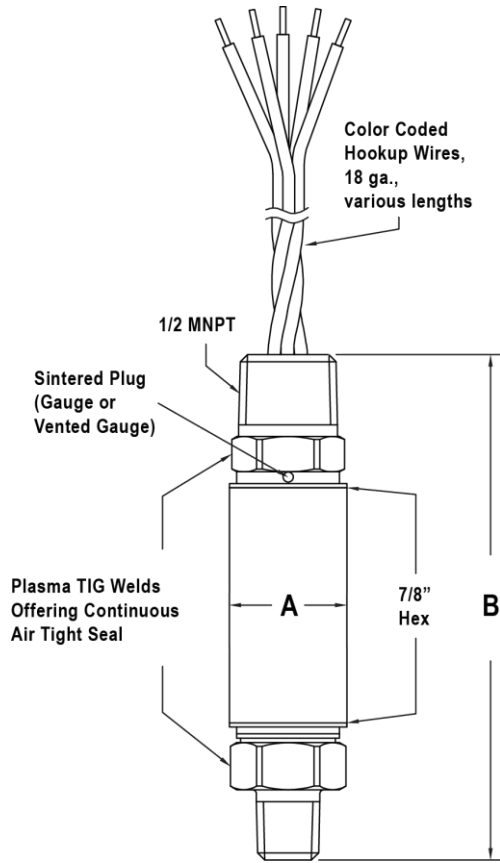
### Electrical Data

<b>Excitation</b>	10-28VDC
<b>Current Consumption:</b>	400Hz
<b>Set Point</b>	See Chart on Page 2
<b>Output Load:</b>	Yes
<b>Reverse Polarity Protection</b>	Yes

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## Dimensions



Model Series	Body Diameter "A"	Overall Length "B"
AST4600	0.875"	3.64"
AST46HA	1"	4.3"
AST46PT (4-20mA)	1"	4.8"
AST46PT (Voltage)	1"	4.3"
AST46SW	1"	4.8"

