

HIGH TEMP PRESSURE DETECTOR

DESCRIPTION

The Fike High Temp Pressure Detector is designed to continuously measure the pressures inside the protected hazards. The extremely fast response time of the pressure detector allows the Explosion Protection Controller (EPC) to quickly detect a developing explosion. The detector is provided with high accuracy through compensation of linearity and temperature errors.

FEATURES AND BENEFITS

- Continuous pressure measurement
- Dynamic and threshold functionality
- Extremely fast response time
- Flying lead
- High overpressure and temperature rating
- High corrosion resistance
- Long term stability

SPECIFICATIONS

Part Number	29957131 - S	
Type	SST Conduit	
Pressure	-4.35 to 4.35 psig (-300 to +300 mbarg)	
Overpressure	59.5 psig (4.1 barg)	
Deflagration Overpressure	87 psig (6.0 barg)	
Vacuum Resistance	Full Vacuum	
Pressure Connection	G 1"	
Material	Wetted	SST
	Housing	SST 1.4571 316 TI
	Sealing	Viton (FKM FPM) O-ring
Temperature Range*	Process: -4°F to 302°F (-20°C to 150°C) Ambient: -4°F to 221°F (-20° to 105°C) Storage: -22°F to 221°F (-30°C to 105°C)	
Power Supply	10 - 30 VDC	
Output	4 - 20 mA	
Accuracy	<0.5% of span	
Electrical Connection	9.84" (3m) PUR Cable with ½ NPT Conduit Connection	
Enclosure	IP65	

* Maximum process temperature is dependant on maximum ambient temperature. See chart below for full temperature range.



APPROVALS:**

- CE
- ATEX EEx ia I/II C T4, EEx ia I/II C T5, EEx ia I/II C T6
- CSA -
 - Class I, Div. 1, Grp A, B, C, D;
 - Class II, E, F, G;
 - Class III
- FM -
 - Class I, Div. 1, Grp A, B, C, D;
 - Class II, E, F, G;
 - Class III

** Intrinsic safety barrier required for hazardous area.



MOUNTING

The high temp pressure detector is available in several different mounting configurations. These include flush, rigid, flex, and high-temperature flex mountings. Pressure detector accessories are also available to reduce product build up or impingement and to aid with installation. Refer to Fike Data Sheet X.1.08.01 for mounting components and configurations.

RELATION OF PROCESS TEMPERATURE TO AMBIENT TEMPERATURE

