

SST & PFA PRESSURE DETECTOR

DESCRIPTION

The Fike SST & PFA Pressure Detectors are 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 take more than one million samples every second. Using the same instantaneous speed, this information is then processed to determine if the pressure change is that of a developing explosion. The pressure detector utilizes a piezo-resistive sensing element. This element allows the detector to have high overload protection, corrosion resistance and long-term stability. The detector is provided with high accuracy through compensation of linearity and temperature errors.



FEATURES AND BENEFITS

- Piezo-resistive sensing element
- 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

Type		SST pressure detector	PFA pressure detector	SST pressure detector - conduit	PFA pressure detector - conduit
		P/N 29957031-S	P/N 29957085-S	P/N 29957131-S	P/N 29957185-S
Sensing principle		Piezo resistive			
Pressure		-300 to +300 mbarg			
Overpressure		5 bar			
Deflagration overpressure		6 bar			
Vacuum resistance		Full vacuum			
Pressure connection		G 1"			
Material	Wetted	SST	PFA	SST	PFA
	Housing	SST 1.4571 316 L			
	Sealing	FKM/FPM O-ring			
Temperature range		Process: -20°C to 150°C ¹ Ambient: -20°C to 80°C Storage: -30°C to 105°C			
Power supply		10 to 30 VDC			
Output		4 – 20 mA			
Accuracy		< 0,5% of span			
Electrical connection		3M PUR cable	3M PUR cable	3M PUR cable with 1/2 NPT conduit connection	3M PUR cable with 1/2 NPT conduit connection
Enclosure		IP 68	IP 68	IP 67	IP 67
Approvals		CE Atex	CE Atex	CE Atex CSA, Class I, Div. 1 FM, Class I, Div. 1	CE Atex CSA, Class I, Div. 1 FM, Class I, Div. 1

(1) To correct maximum process temperature against ambient temperature, use Fike document 8.8524.XX.X.

MOUNTING

The Fike SST & PFA Pressure Detectors are available in several different mounting configurations. These include flush, rigid, flex, and high-temperature flex mountings. Mounting accessories are also available to reduce product build-up or impingement and to aid with installation. Refer to the Installation and Maintenance instruction sheet for more details.

Form No. 8.5240.00.2

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 **CORONA SERWIS Sp. z o.o.**
ul. Baildona 16/27, 40-115 Katowice
tel. +48 32 255 53 53, fax +48 32 720 20 88
NIP 634-283-12-56