

Model SIG

Explosion Proofed Pressure Transmitter with Local Indication

Description

SIG model, has Explosion Proof(Ex d IIC T6) and water-proof(IP67) is ideal for a danger area and at the place is required to be waterproofed. With 4-1/2 Digit Backlight LCD, it can not only display up to ± 19999 but also is visible from the dark place. Its functions, Analog output, Relay output and RS-485 communication, Pressure Unit convertor and Scale adjustment can be utilized with a variety of controller.

Features

- Explosion proof approval to Ex d IIC T6, IP67
- 4 1/2 digit Backlight LCD display
- Built-in amplifier circuit(VDC, mA)
- Optional 2-channel Relay output
- Optional RS485 output
- Measuring range $-0.1 \sim 150$ MPa
- 0.2 / 0.5%FS accuracy

Applications

- Process control & monitoring
- Hydraulics & Pneumatic
- Chemical & Petrochemical
- Liquid level measurement
- Food & Pharmaceutical
- Gas transmission pipe-line
- Plant utilities monitoring

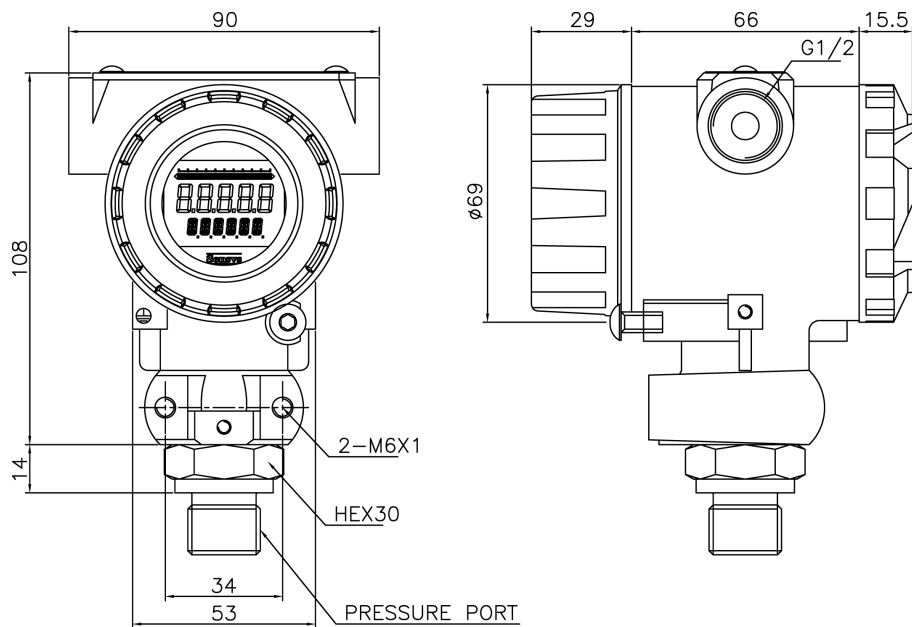
Specifications



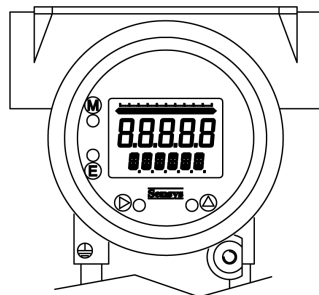
	2Wire Output		3Wire Output	
Range	$-0.1 \sim 0 \sim 0.005 \dots 35$ MPa(Gauge) $0 \sim 0.03 \dots 35$ MPa(Absolute)		$-0.1 \sim 0 \sim 0.005 \dots 35$ MPa(Gauge) $0 \sim 0.03 \dots 35$ MPa(Absolute)	
Performance				
Accuracy	$\pm 0.2\%FS \pm 1$ digit	$\pm 0.5\%FS \pm 1$ digit	$\pm 0.2\%FS \pm 1$ digit	$\pm 0.5\%FS \pm 1$ digit
Thermal Effect on Zero	$\pm 0.03\%FS / ^\circ C$	$\pm 0.05\%FS / ^\circ C$	$\pm 0.03\%FS / ^\circ C$	$\pm 0.05\%FS / ^\circ C$
Thermal Effect on Span	$\pm 0.03\%FS / ^\circ C$	$\pm 0.05\%FS / ^\circ C$	$\pm 0.03\%FS / ^\circ C$	$\pm 0.05\%FS / ^\circ C$
Ambient Temperature Range	$-20 \sim 60^\circ C$			
Process Temperature Range	$-40 \sim 120^\circ C$			
Electrical				
Display	$\pm 19999(4 \frac{1}{2})$ Backlight LCD			
Excitation	11~28VDC		17~28VDC	
Output				
Analog	4~20mA(2Wire)		4~20mA(3Wire), 0~5V, 1~5V, 0~10V	
Switching(Optional)	-		2Ch Relay(3A 30VDC / 3A 250VAC)	
Digital(Optional)	-		RS485	
Response Time	0.1~1sec			
Electrical Connection	G(PF) 1/2"			
Physical				
Proof Pressure	X2	X1.5(>100MPa : X1.1)	X2	X1.5(>100MPa : X1.1)
Burst Pressure	X3(>23MPa : 70MPa)	X2(>100MPa : X1.1)	X3(>23MPa : 70MPa)	X2(>100MPa : X1.1)
Vibration	49.1m/s ² {5G}, 10~500Hz			
Shock	490m/s ² {50G}			
Pressure Port	R(PT)1/4", G(PF)1/4", R(PT)3/8", G(PF)3/8", R(PT)1/2", G(PF)1/2", Flange & Other Connection Available on Request			
Media-Wetted Materials	SS316L, VITON	SS316L, Ti 87%	SS316L, VITON	SS316L, Ti 87%
Explosion Proof	Ex d IIC T6, IP67			
Protection	IP67			
Weight	Approx. 1kg			

Dimension

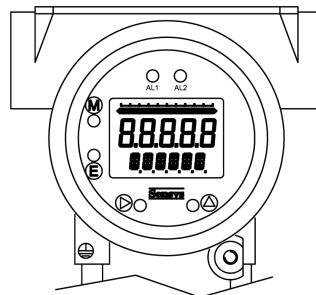
► Out Dimension



► Front Panel

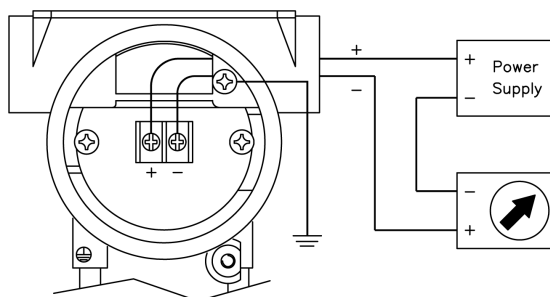


Non Switching Output Type

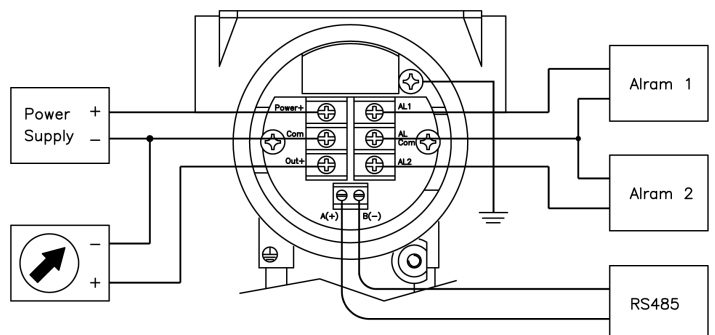


Switching Output Type

► Connection



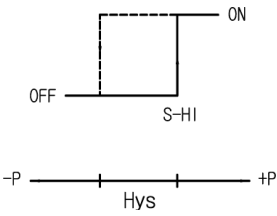
2Wire Output Type



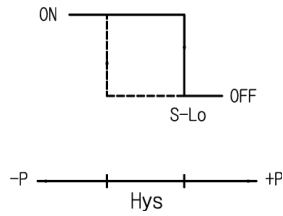
3Wire Output(Option : Switching Output, RS485)

Alarm Mode

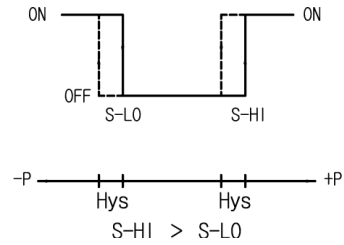
► Hi Mode



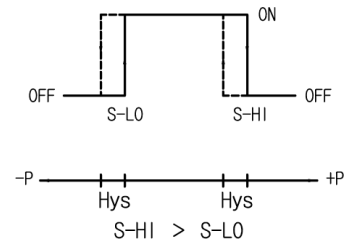
► Low Mode



► A Mode



► B Mode



Ordering Information

Model Name		SIG	H	A	0100	R	A	G	Type of Pressure Measurement
Analog Output									G : Gauge J : Absolute
Switching & Digital Output									Pressure port
Pressure Range									A : R(PT)3/8" B : G(PF)3/8" C : R(PT)1/4" D : G(PF)1/4" E : R(PT)1/2" Q : G(PF)1/2" *. Flange & Other Connection Available on Request
									Pressure Unit
									R : kPa M : MPa B : bar K : kgf/cm ² P : psi H : mmHg C : cmH ₂ O