

Model SIG

Explosion Proof 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

- ▶ CE Certified
- ▶ 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 -0.1~500MPa
- ▶ 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



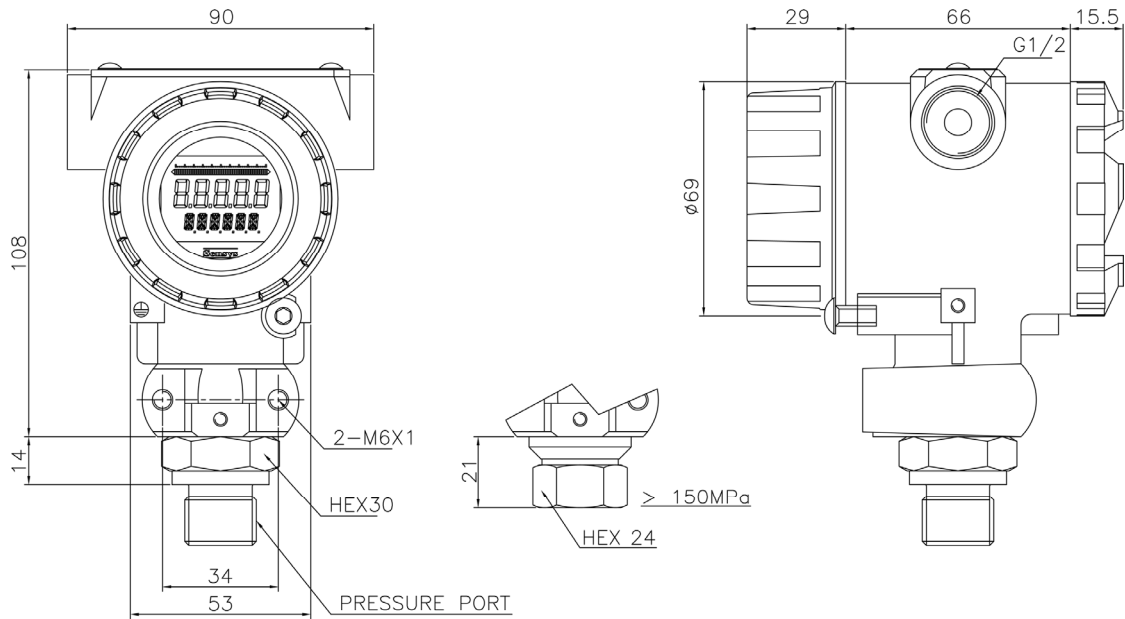
Specifications

		Accuracy 0.2%FS		Accuracy 0.5%FS	
Range		0~5kPa...70MPa(Gauge) -100kPa~0...70MPa(Gauge) 0~35kPa...70MPa(Absolute)		0~71...500MPa(Gauge)	
Performance		±0.2%FS±1digit ±0.03%FS/°C ±0.03%FS/°C		±0.5%FS±1digit ±0.05%FS/°C ±0.05%FS/°C	
Ambient Temperature Range		-20~60°C			
Process Temperature Range		-40~120°C			
Electrical		±19999(4 1/2) Backlight LCD			
Display		11 ~ 28VDC		17~28VDC	
Excitation		17~28VDC		11 ~ 28VDC	
Output		17~28VDC		17~28VDC	
	Analog	4~20mA(2Wire)		4~20mA(2Wire)	
		0~5VDC 1~5VDC 0~10VDC 4~20mA(3Wire) 2Ch Relay		0~5VDC 1~5VDC 0~10VDC 4~20mA(3Wire) 2Ch Relay	
	Switching(Optional)	-	(3A 30VDC / 3A 250VAC)	-	(3A 30VDC / 3A 250VAC)
	Digital(Optional)	-	RS485	-	RS485
Response Time		0.1~1sec			
Electrical Connection		G(PF) 1/2"			
Physical					
Proof Pressure		X3또는 140MPa1)		71~150MPa : X1.5 or 150MPa1) > 150MPa : X1.5 or 500MPa1)	
Vibration		49.1m/s2{5G}, 10~500Hz			
Shock		490m/s2{50G}			
Pressure Port		R1/4",G1/4",R3/8",G3/8",R1/2",G1/2", 9/16UNF Female(Only > 1500bar), Flange & Other Connection Available on Request			
Media-Wetted Materials		SS316L, VITON		SS316L, Ti 87%	
Explosion Proof		Ex d IIC T6, IP67			
Protection		IP67			
Weight		Approx. 1kg			

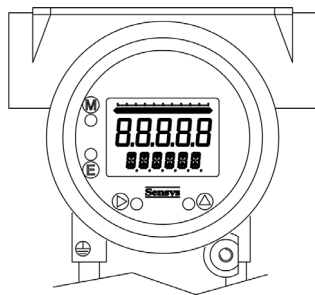
¹⁾ Whichever is less.

Dimension

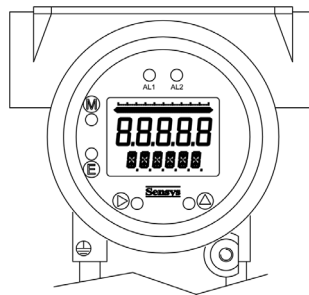
► Out Dimension



► Front Panel

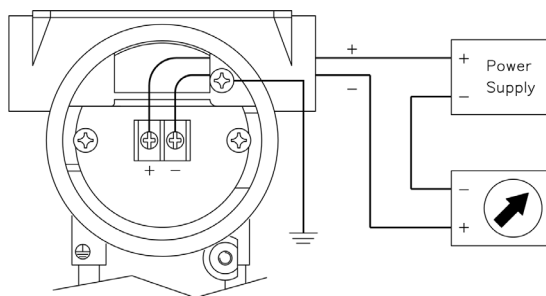


Non Switching Output Type

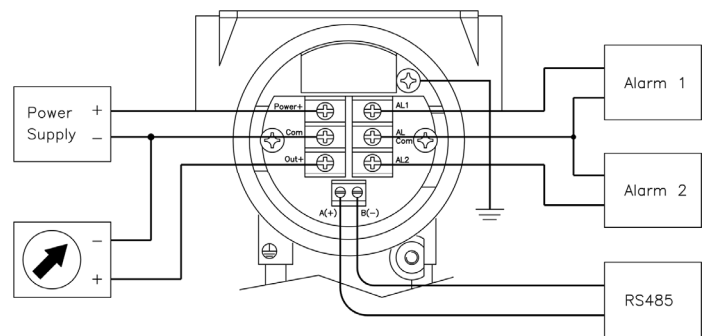


Switching Output Type

► Connection

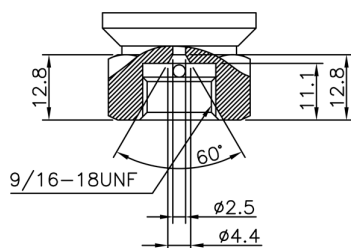


2Wire Output Type



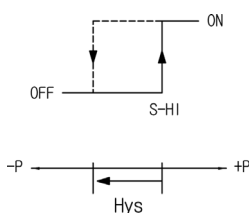
3Wire Output(Option : Switching Output, RS485)

► Pressure Port(> 1500bar)

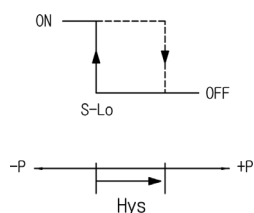


Alarm Mode

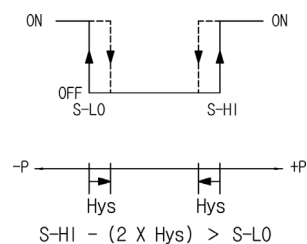
► Hi Mode



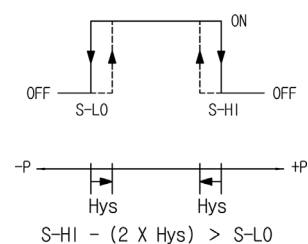
► Low Mode



► A Mode



► B Mode



Ordering Information

Model Name		SIG H A 0100 R A G S		Accuracy	
				S : 0.2%FS	
				L : 0.5%FS	
Analog Output				Type of Pressure Measurement	
C : 0~5V				G : Gauge	
E : 1~5V				J : Absolute	
G : 4~20mA(3Wire)					
H : 4~20mA(2Wire)					
J : 0~10V					
Switching & Digital Output				Pressure port	
A : None				A : R(PT)3/8" B : G(PF)3/8"	
B : 2-Ch. Relay				C : R(PT)1/4" D : G(PF)1/4"	
C : RS485				E : R(PT)1/2" Q : G(PF)1/2"	
D : 2-Ch. Relay, RS485				K : 9/16-18 UNF(F) (Only > 1500bar)	
Pressure Range				*. Flange & Other Connection	
XXXX : Pressure				Available on Request	
CXXX : Compound Pressure				Pressure Unit	
				R : kPa M : MPa	
				B : bar K : kgf/cm ²	
				P : psi H : mmHg	
				D : mmH ₂ O C : cmH ₂ O	
				A : Pa	