

SM350 series

Digital Pressure Gauge Controller

- Low pressure type (-100~+100KPa)
- High pressure type (-0.1~+1MPa)
- 3-color digital LCD display
- Indicator accuracy <1 % F.S.
- Power supply 12~24VDC $\pm 10\%$
- Output 4~20mA or 1~5V
- Application : non-ionic, non-corrosive gas
- Programmable units: Kpa,Mpa,bar,psi,kgf/cm²



SM350 series

TECHNICAL SPECIFICATION

SM350		- 01P High pressure	-01C Low pressure	-10P High pressure	-10C Low pressure	-15P High pressure	-15C Low pressure
Rated pressure range		-0.101~1.000MPa	-101.3~101.3kPa	-0.101~1.000MPa	-101.3~101.3kPa	-0.101~1.000MPa	-101.3~101.3kPa
Set pressure range		-0.100~1.000MPa	-101.0~101.0kPa	-0.100~1.000MPa	-101.0~101.0kPa	-0.100~1.000MPa	-101.0~101.0kPa
Withstand pressure		1.5MPa	500kPa	1.5MPa	500kPa	1.5MPa	500kPa
Fluid		Filtered air, Non-corrosive / Non-flammable gas, conform to ISO8573-1:2010 [7:4]					
Power supply		12~24V DC ± 10%					
Current consumption		< 45mA(without load)					
Set pressure resolution	kPa	—	0.1	—	0.1	—	0.1
	MPa	0.001	—	0.001	—	0.001	—
	kgf/cm ²	0.01	0.001	0.01	0.001	0.01	0.001
	bar	0.01	0.001	0.01	0.001	0.01	0.001
	psi	0.1	0.01	0.1	0.01	0.1	0.01
	mmHg	—	0.1	—	0.1	—	0.1
	inchHg	—	1	—	1	—	1
Switch output compare [NOTE] *1		2NPN : open collector 2 outputs Max. Load Current : 100 mA Max. Supply Voltage : 30 V DC Residual Voltage : ≤ 1.5 V*			2PNP : open collector 2 outputs Max. Load Current : 100 mA Max. Supply Voltage : 24 V DC Residual Voltage : ≤ 1.5 V*		
Analog Output (Voltage Output) [NOTE] *1		No			Output Voltage : 1 ~ 5 V ±2.5 % F.S. Linearity : ±1 % F.S. Output Impedance : about 1 kΩ		
Analog Output (Current Output) [NOTE] *1		No			Output Current : 4 ~ 20 mA ±2.5 % F.S. Linearity : ±1 % F.S. Output Impedance : about 1kΩ Max.Load Impedance : 300Ω		
MODBUS function [NOTE] *2		No				YES	
Indicator accuracy		±1 % F.S. ±1 digit (ambient temperature : 25 ±10 °C)					
Repeatability		±0.2% F.S. ±2digits					
Response time		2.0ms, 50ms, 100ms, 250ms 500ms, 2000ms option! [Note] *1		1ms [Note] *1 2.0ms, 50ms, 100ms, 250ms 500ms, 2000ms option!		2.0ms, 50ms, 100ms, 250ms 500ms, 2000ms option! [Note] *4	
Display		3 colors(Red,Orange, Yellow-green) display(Sampling rate : 4 times / sec.)					
Indicator accuracy		< 1 % F.S.(ambient temperature : 25 °C)					
Working environmenet		0~50℃ (No condensation or freezing); 35~85%RH (No condensation or freezing)					
Storage environmenet		-10~50℃ (No condensation or freezing); 35~85% RH (No condensation or freezing)					
IP class		Ip40 / IP65*					
Port size		R.R1/8-M5 G.G1/8+M5 N.NPT1/8+M5					
Net weight		about 80g(including cable)					
Accessory		with 1 cable					

MODEL SELECTING GUIDE

ECONOMIC SERIES

SM350 01 C 001 R

① ② ③ ④

① Series	01 : Economic		
② Pressure Range	C : -101.3~101.3kPa (Low pressure) P : -0.101~1MPa (High pressure)		
③ Output	001 : 2NPN 002 : 2PNP 003 : 1NPN+1Analog(1~5V) 004 : 1PNP+1Analog(1~5V)		
④ Port	R : R1/8,M5 G : G1/8,M5 N : NPT1/8,M5		

Standard Series

SM350 10 C 010 R

① ② ③ ④

① Series	10 : Standard 20 : High protection grade (IP65)		
② Pressure Range	C : -101.3~101.3kPa (Low pressure) P : -0.101~1MPa (High pressure)		
③ Output	010 : 2NPN+1Analog(1~5V) 011 : 2NPN+1Analog(4~20mA) 020 : 2PNP+1Analog(1~5V) 021 : 2PNP+1Analog(4~20mA)		
④ Port	R : R1/8,M5 G : G1/8,M5 N : NPT1/8,M5		

Communicative Series

SM350 15 C 030 R

① ② ③ ④

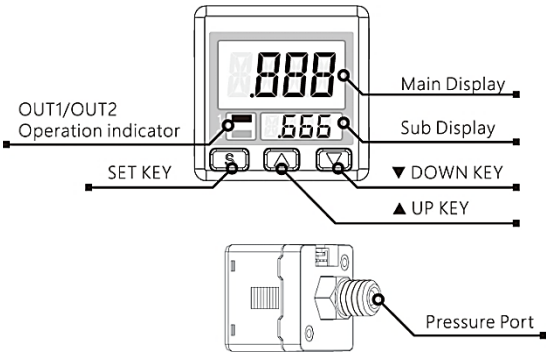
① Series	15 : Normal grade		
② Pressure Range	C : -101.3~101.3kPa (Low pressure) P : -0.101~1MPa (High pressure)		
③ Output	030 : 1NPN+1RS485 031 : 1PNP+1RS485		
④ Port	R : R1/8,M5 G : G1/8,M5 N : NPT1/8,M5		

Optinal Parts for purchasing separately

1. Metal mounting bracket - L style: XP-BT-01
2. Metal mounting bracket - Z style: XP-BT-02
3. Panel adapter(have protective lid): XP-PA-01
4. Cable - 3 wires: XP-CA-01
5. Cable - 5 wires: XP-CA-02

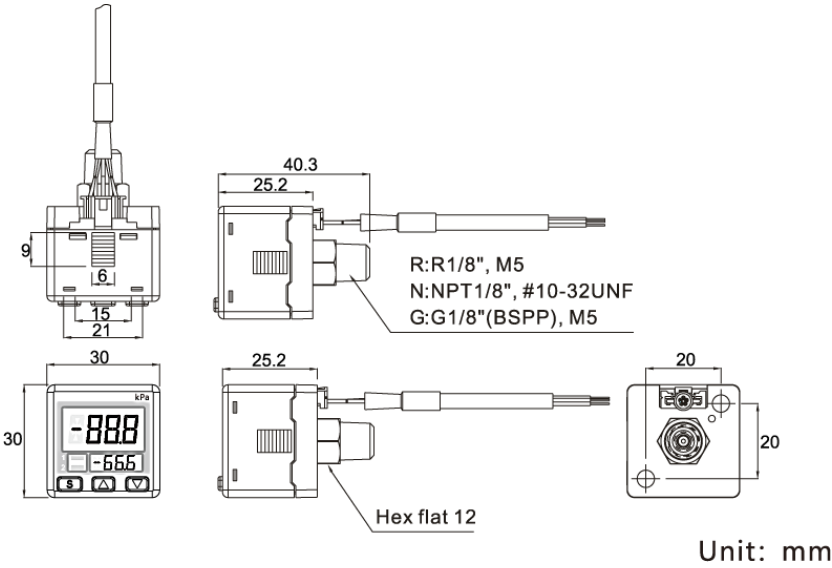
PANEL DESCRIPTION

PANEL DESCRIPTION



Dimensions

Dimensions



Setting Info.

: Please refer to the manual supplied with the product.

History of document

Document#	DATE	Description
Rev1.0	2019.12.03	First Release.

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