

# 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 ± 10%
- Output 4~20mA or 1~5V
- Application : non-ionic, non-corrosive gas
- Programmable units: Kpa,Mpa,bar,psi,kgf/cm<sup>2</sup>



SM350 series

### TECHNICAL SPECIFICATION

SM350	- 01P	-01C	-10P	-10C	-15P	-15C
	High pressure	Low pressure	High pressure	Low pressure	High pressure	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	—
	MPa	0.001	—	0.001	—	0.001
	kgf/cm <sup>2</sup>	0.01	0.001	0.01	0.001	0.01
	bar	0.01	0.001	0.01	0.001	0.01
	psi	0.1	0.01	0.1	0.01	0.1
	mmHg	—	0.1	—	0.1	—
	inchHg	—	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: 1~5V ±2.5% F.S. Linearity: ±1% F.S. Output Impedance: about 1KΩ				No
Analog Output (Current Output) [NOTE] *1	No	Output Current: 4~20mA ±2.5% F.S. Linearity: ±1% F.S. Output Impedance: about 1KΩ Max.Load Impedance: 300Ω				No
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 environment	0~50°C ( No condensation or freezing); 35~85%RH ( No condensation or freezing)					
Storage environment	-10~50°C ( 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) 020 : 2PNP+1Analog(1~5V)	011 : 2NPN+1Analog(4~20mA) 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

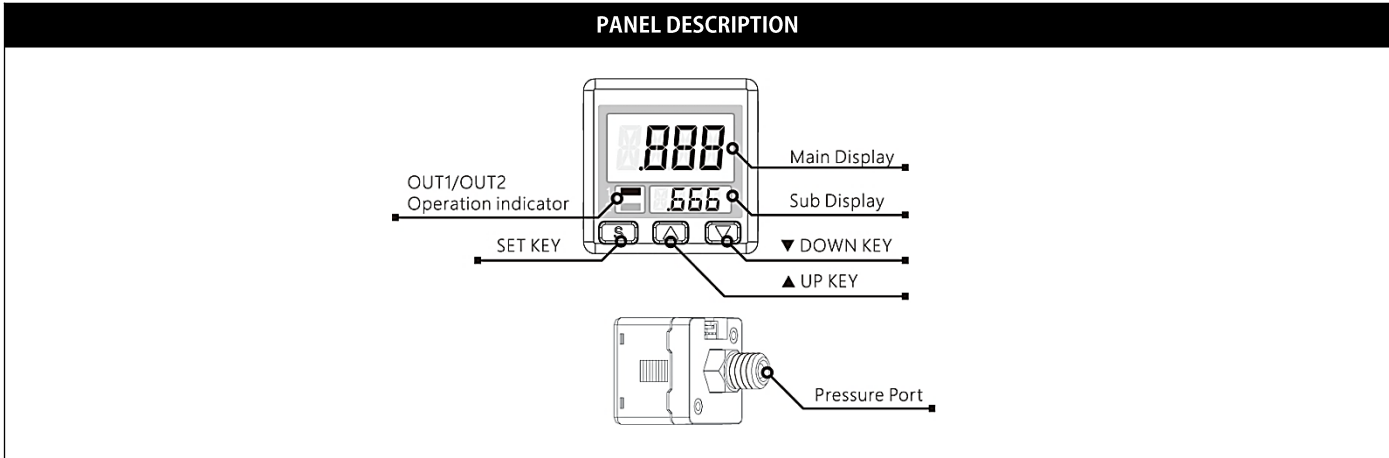
① ② ③ ④

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

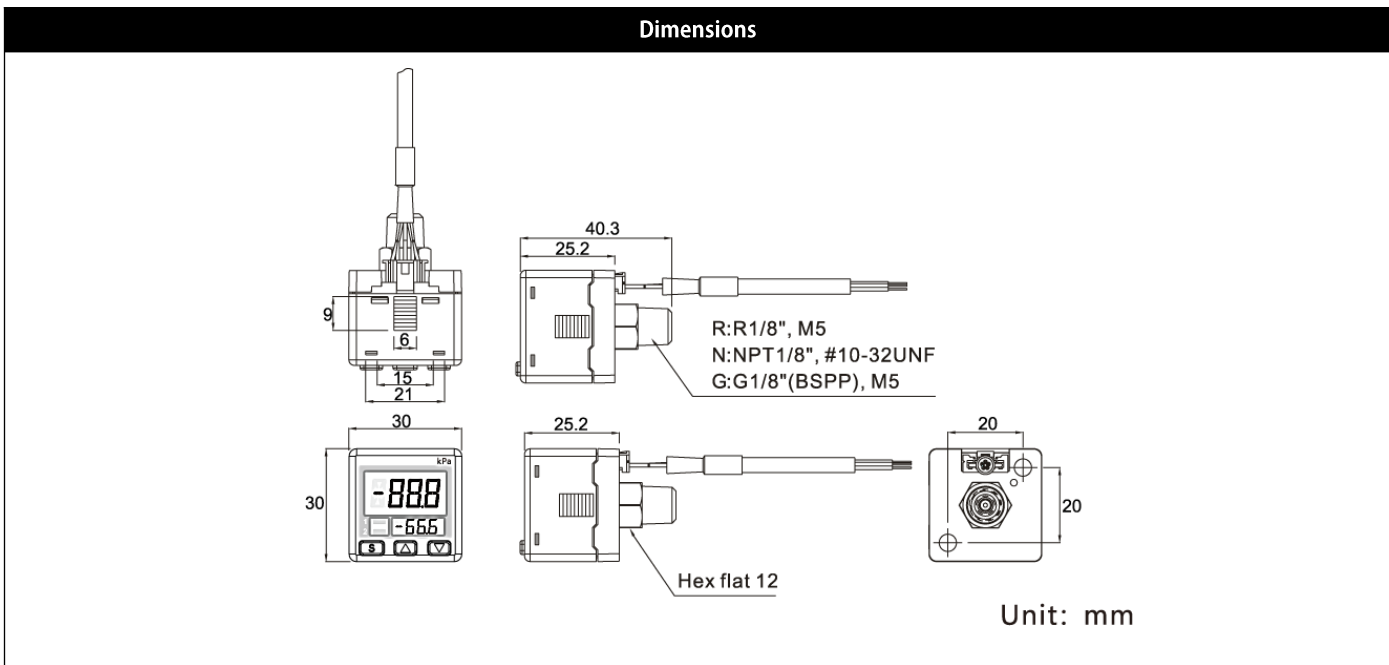
#### Optinal Parts for purchasing separately

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



## □ 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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