

Digital Pressure Switch NP Series

Parameter specification

Model number		NP-0□P001 (high pressure type)	NP-0□C001 (low pressure type)	NP-0□P010 (high pressure type)	NP-0□C010 (low pressure type)	NP-0□P030 (high pressure type)	NP-0□C030 (low pressure type)
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
Maximum pressure resistance		1.5MPa	500kPa	1.5MPa	500kPa	1.5MPa	500kPa
Applicable gas		Non-corrosive gas, non-flammable gas, compliant ISO 8573-1:2010[7:4:4]					
Supply voltage		12~24V DC±10%					
Current consumption		45mA or less (no load)					
Display resolution at different pressure units	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	0.01
	psi	0.1	0.01	0.1	0.01	0.1	0.01
	mmHg	—	0.1	—	0.1	—	0.1
	inchHg	—	1	—	1	—	1
Comparison output		NPN collector open output Maximum load current 100mA Max supply voltage :30VDC Internal pressure drop: less than 1.5V			PNP collector open output Maximum load current: 100mA Max supply voltage: 24V DC Internal pressure drop: less than 1.5V		
Voltage type analog output		no		Output voltage :1~5V± 2.5%F.S. Linear: ±1%F.S. Output impedance: about 1KΩ		no	
Current mode analog output		no		Output current: 4~20mA soil 2.5%F.S. Linearity: ±1%F.S. Load resistance: min. 50Ω Max. 300Ω@12V; 600 Ω @ 24 v		no	
MODBUS function		no				have	
Display accuracy		±1%F.S. ±1digits(operating temperature 25±10℃)					
repeatability		+0.2%F.S. ±2digits					
Reaction time		2.0ms,50ms,100ms, 250ms,500ms,2000ms		1ms 2.0ms,50ms,100ms, 250ms,500ms,2000ms		2.0ms,50ms,100ms, 250ms,500ms,2000ms	
reveal		3 colors (red, orange, grass green) display (sampling rate :4 times/s)					
Temperature characteristic		Within 1%F.S., comparison reference temperature 25℃ (0~50℃ range)					
Use environment		0~50℃(no condensation, no icing); 35~85%RH(anhydrous dew)					
Preservation environment		-10~50℃(no condensation, no icing); 35~85%RH(anhydrous dew)					
Class of protection		IP40					
Nozzle diameter		Internal thread M5					
weight		About 85g(including power cable)					
attachments		1* power cable with terminal, 1* manual					