

PN3000-Electrical Pressure Transmitter With LED Display

- ▶ High pressure rating
- ▶ Measuring range from 0...1 barG to 0...800barG
- ▶ All-metal housing, 4-digit LEDs with digital display
- ▶ PNP/NPN programmable
- ▶ 4...20mA/0...20mA/1...5V/0...5V output programmable
- ▶ Rotatable indicator

PN3000 equips with a ceramic thick film sensing element while a standard electrical signal is output and display. All-metal housing, 330° rotatable highlight LED display, dual keys and friendly menu design, multiple process connections.





Specifications

Power Supply	12...30Vdc
Current Consumption	≤30mA (power supply 24Vdc, no-load)
Switching Output	
Output	Push-pull (compatible with PNP/NPN),NC/NO configurable
S1, S2 Output Current	<500mA
Response Time	<10ms
Voltage Drop	<1V
Accuracy	≤±0.25% of F.S.
Current Analog Output	
Output	3-wire 0...20mA/4...20mA programmable
Load RA	RA≤0.5KΩ
Voltage Analog Output	
Output	3-wire 0...5V/1 ...5V programmable
Load RA	RA>10KΩ
Wiring Protection	Reverse polarity, overvoltage and short-circuit
Display	
Design	8mm height, red 4-digit LED
Display Range	-1999...9999
Accuracy	≤±0.25% of F.S.
Stability(Drift/Year)	≤±0.3% of F.S.
Temperature	
Medium	-40...+85℃
Ambient	-20...+85℃
Material	
Display Head	304 stainless steel
Housing	304 stainless steel
Wetted Parts	316 stainless steel
Protection Class	IP67
Wiring method	M12×1 plug
Process connection	G1/4 ED seal with male thread

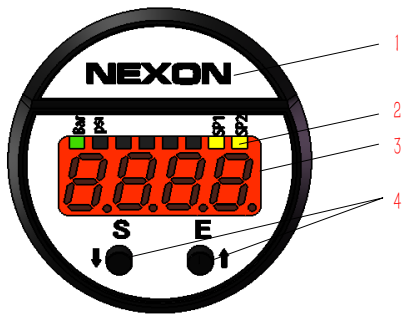
Applications

- ▶ Hydraulics and pneumatics
- ▶ Machine tools
- ▶ Pumps and compressors
- ▶ Machinery manufacturing
- ▶ Vacuum technology applications

Technical Data

Pressure Range	bar	1	2	5	10	16	25	40	60	100	160	250	400	600
	psi	15	30	75	145	230	370	580	900	1500	2300	3600	6000	9000
Overload Pressure		x5		x3			x2			x1.5			x1.3	
Burst Pressure		x6		x4			x3			x2			x1.6	

Set Panel



- 1 - LOGO
- 2 - 8 state lights
- 3 - 4-digit LED display window
- 4 - Keys

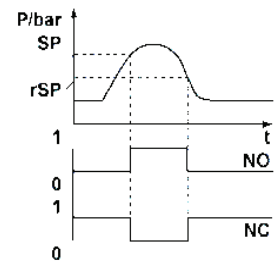
S + E	Press and hold for 2 seconds to enter setting mode/verification
S	Shift down the menu / Change a value
E	Shift up the menu / Change a value

PRESSURE

Functional Specifications

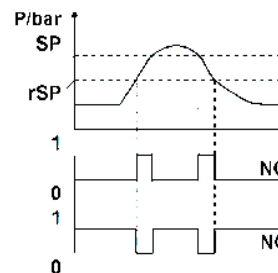
Hysteresis Mode

The hysteresis keeps the switching output stable if the pressure fluctuates around the setpoint. Output switches when rising pressure reaches set point (SP); As pressure falls, the output switches back only if the reset point (rSP) is reached.



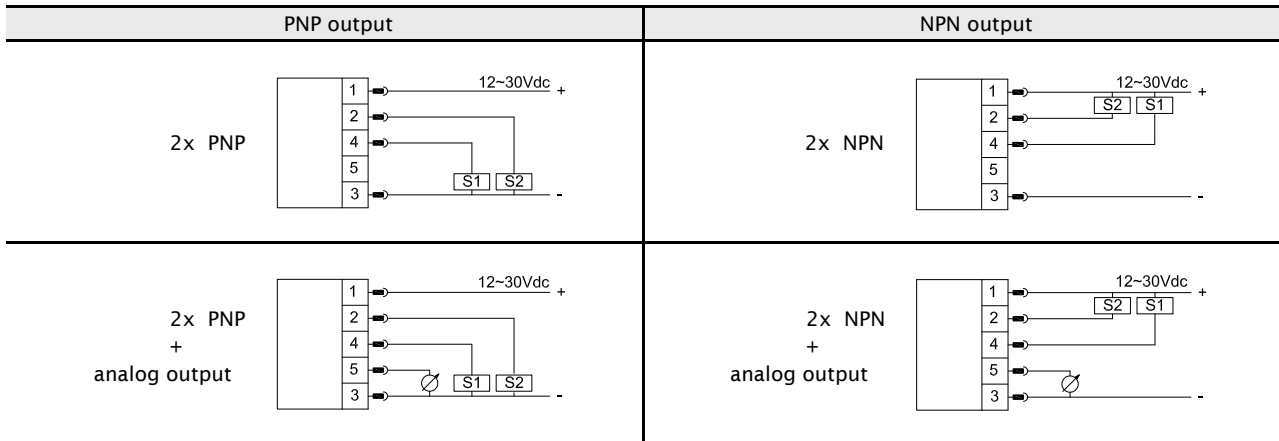
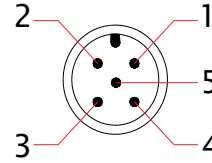
Window Mode

The window function allows the monitoring of a defined range. If the pressure is between set point (SP1) and reset point (rP1), the output is activated (NO), otherwise it is deactivated (NC).

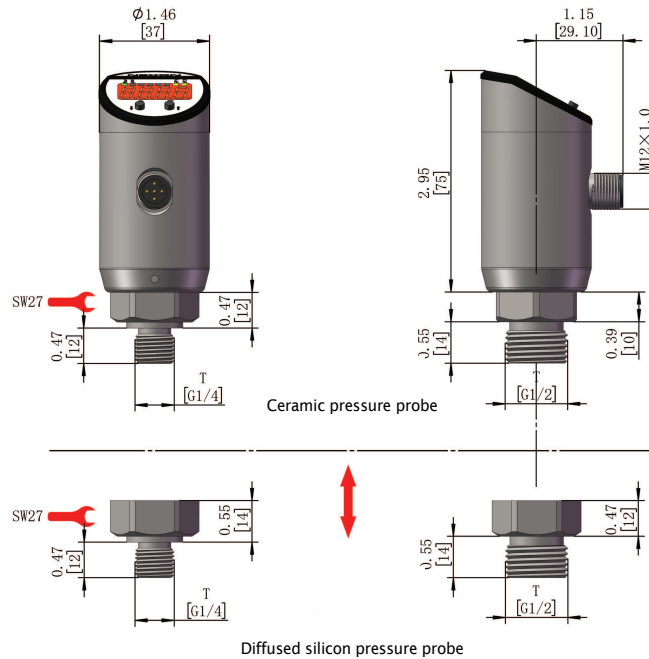


Wiring

Signal	Plug	Cable
U+	1	Brown
U-	3	Blue
Switching output 1	4	Black
Switching output 2	2	White
Analog output (Current or Voltage)	5	Gray



Dimensions in inches (mm)



Model Number

OrderNO.	Type	Range Bar	Pressure type N/P/A	Output type MA/V
PN00N01	PN3000/B001N21G14MS	-1...1	Negative Pressure	2 switch Current Output (0...20/4...20mA)
PN00N04	PN3000/B004N21G14MS	-1...4		
PN00N06	PN3000/B006N21G14MS	-1...6		
PN00N10	PN3000/B010N21G14MS	-1...10		
PN00N16	PN3000/B016N21G14MS	-1...16		
PN00N25	PN3000/B025N21G14MS	-1...25		
PN000,25	PN3000/B0.25P21G14MS	0...0.25	Positive Pressure	
PN0000,5	PN3000/B00.5P21G14MS	0...0.5		
PN00001	PN3000/B001P21G14MS	0...1		
PN00004	PN3000/B004P21G14MS	0...4		
PN00006	PN3000/B006P21G14MS	0...6		
PN00010	PN3000/B010P21G14MS	0...10		
PN00016	PN3000/B016P21G14MS	0...16		
PN00025	PN3000/B025P21G14MS	0...25		
PN00040	PN3000/B040P21G14MS	0...40		
PN00060	PN3000/B060P21G14MS	0...60		
PN00100	PN3000/B100P21G14MS	0...100		
PN00160	PN3000/B160P21G14MS	0...160		
PN00250	PN3000/B250P21G14MS	0...250		
PN00400	PN3000/B400P21G14MS	0...400		
PN00600	PN3000/B600P21G14MS	0...600		
PN00800	PN3000/B800P21G14MS	0...800		
PN00A01	PN3000/B001A21G14MS	0...1	Absolute Pressure	
PN00A02	PN3000/B002A21G14MS	0...2		
PN00A04	PN3000/B004A21G14MS	0...4		
PN00A06	PN3000/B006A21G14MS	0...6		
PN00A10	PN3000/B010A21G14MS	0...10		
PN00A16	PN3000/B016A21G14MS	0...16		
PN00A25	PN3000/B025A21G14MS	0...25		
PN00A50	PN3000/B050A21G14MS	0...50		

PRESSURE

Model Number

OrderNO.	Type	Range Bar	Pressure type N/P/A	Output type MA/V
PN01N01	PN3000/B001N22G14MS	-1...1	Negative Pressure	2 switch Voltage Output (0...5/1...5V)
PN01N04	PN3000/B004N22G14MS	-1...4		
PN01N06	PN3000/B006N22G14MS	-1...6		
PN01N10	PN3000/B010N22G14MS	-1...10		
PN01N16	PN3000/B016N22G14MS	-1...16		
PN01N25	PN3000/B025N22G14MS	-1...25		
PN010,25	PN3000/B000.25P22G14MS	0...0.25	Positive Pressure	
PN0100,5	PN3000/B000.5P22G14MS	0...0.5		
PN01001	PN3000/B001P22G14MS	0...1		
PN01004	PN3000/B004P22G14MS	0...4		
PN01006	PN3000/B006P22G14MS	0...6		
PN01010	PN3000/B010P22G14MS	0...10		
PN01016	PN3000/B016P22G14MS	0...16		
PN01025	PN3000/B025P22G14MS	0...25		
PN01040	PN3000/B040P22G14MS	0...40		
PN01060	PN3000/B060P22G14MS	0...60		
PN01100	PN3000/B100P22G14MS	0...100		
PN01160	PN3000/B160P22G14MS	0...160		
PN01250	PN3000/B250P22G14MS	0...250		
PN01400	PN3000/B400P22G14MS	0...400		
PN01600	PN3000/B600P22G14MS	0...600		
PN01800	PN3000/B800P22G14MS	0...800		
PN01A01	PN3000/B001A22G14MS	0...1	Absolute Pressure	
PN01A02	PN3000/B002A22G14MS	0...2		
PN01A04	PN3000/B004A22G14MS	0...4		
PN01A06	PN3000/B006A22G14MS	0...6		
PN01A10	PN3000/B010A22G14MS	0...10		
PN01A16	PN3000/B016A22G14MS	0...16		
PN01A25	PN3000/B025A22G14MS	0...25		
PN01A50	PN3000/B050A22G14MS	0...50		