

*Built-in microcomputer
Digital Display for pressure Measurement*

NPS1000A series

All functions in a compact display



Receiving Instruments & Others



24X48mm DIN Standard

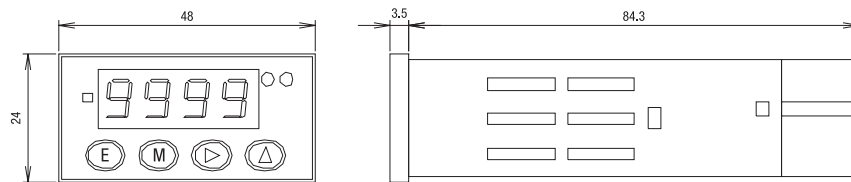
Multi Function · High Accuracy · Ownership

- 1** Built-in power supply for 2-wire, 4-20mA pressure transmitter
- 2** Enable to display full scale ± 9999
- 3** Analog output or RS-485 interface is available
- 4** Full function with built-in microcomputer
- 5** CE compliance

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NPS 1000A Compact Digital Display



Specifications of measurement unit

Input	All pressure sensors using 2 wires, 4-20mA
Operation Type	Digital convert type
Sampling Speed	Maximum 25 times/sec
Display	+/- 9999, Red 8-segment LED display
Accuracy	+/- 0.1% of rdg + 2digits at 23degree C +/- 5degree C
Polarity Display	A minus sign is displayed if the operation result is negative
Out of range Warning	“oL” or “-oL” is displayed with respect to the input signal when the value is outside the display range
Zero Display	Leading zero suppress
Power Supply	DC 24V +/- 20%, Power consumption: Approximately 4 W
Operating Temperature	0 to 50degree C (35 to 85 % RH) non-condensation
Withstand Voltage	DC 500 V for one minute across input terminals/input terminals and each output terminal
Insulation Resistance	100MΩ or higher with DC 500V across the terminals listed above
Compliant Standard	EN61000-6-2, EN50081-2

Specification of comparator unit

Control Method	Microcomputer computation
Setting Range	-9999 to +9999
Comparator Operation	Depend on sampling speed
Comparator Conditions	HI-GO-LO / HH-HI-GO / GO-LO-LL
Hysteresis	For each comparator GO/NO GO value can be set as 1 to 999 digits.
Output type	Relay contact output (b contact output not supported) / Photocoupler output
Output Ratings	DC 24V, 1A (resistance load) for Relay contact output (A Contact) MAX. 30V 50mA for Photocoupler output

Function

Built-in power for sensor	Built-in DC 24V +/- 5% 25mA	
Auto Zero	Zeroing by either the front panel or external terminal	
Analog output accuracy	+/- 0.5%FS	
Signal output	Available RS-485 or analog output	
	RS485 Digital Transfer	Start-stop synchronization, 2-wire half-duplex, 19200bpsMax ASCII code, None transmission control protocol, Maximum 31 meters
	4-20mA	Load resistance: less than 250Ω Accuracy: +/-0.5%FS
	0-10V	Load resistance: more than 10KΩ Accuracy: +/-0.5%FS
	0-5V	Load resistance: more than 10KΩ Accuracy: +/-0.5%FS
Sampling Selection	Available to select from 6 stages (80mS to 1600mS)	
Protective function	Protect the key operation by mistake	

note: Specifications are subject to change without notice.

ORDERING INFORMATION (Example: NPS1000A-420-1)

NPS1000A-	Signal Output	-	Contact
000	No output		1 Relay
420	4-20mA		2 Photocoupler
005	0-5V		
010	0-10V		
485	RS485		