

**azbil**

*Tem-Tech Lab*

**Compact Digital Display**

## **NPS1000A Series**



**24 x 48mm DIN Standard**



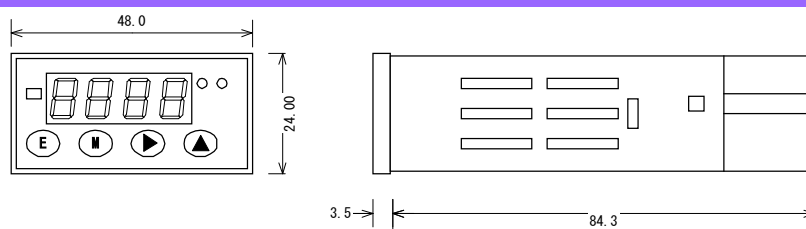
### **Application**

**Multifunction Compact Digital Display**

### **Features & Benefits**

- ***Analog output or RS-485 interface available***
- ***Leading zero suppress***
- ***CE Mark / RoHS compliant***

# NPS1000A Compact Digital Display



## Specifications of measurement unit

Input	4-20mA, 2-wire
Sampling Rate	Maximum 25 times/sec
Display	+/- 9999, Red 8-segment LED display
Accuracy	+/- 0.1% of rdg + 2digits at 23degree C +/- 5degree C
Polarity	A minus sign is displayed if the operation result is negative
Overload	"oL" or "-oL" is displayed with respect to the input signal when the value is outside the display range
Power Supply	DC 24V +/- 20%, Power consumption: Approximately 4 W
Operating Temperature	0 to 50degree C (35 to 85 % RH) non-condensation
Insulation Resistance	100M $\Omega$ or higher with DC 500V across the terminals listed above
Compliant Standard	EN61000-6-2, EN50081-2

## Specifications of comparator unit

Setting Range	-9999 to +9999
Comparator Operation	Depend on sampling speed
Comparator Conditions	HI-GO-LO / HH-HI-GO / GO-LO-LL
Hysterisis	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	$\pm$ 0.5%FS								
Signal output	Available RS-485 or analog output								
	<table border="1"> <tr> <th>RS485 Digital Transfer</th><th>Start-stop synchronization, 2-wire half-duplex, 19200bpsMax ASCII code, None transmission control protocol, Maximum 31 meters</th></tr> <tr> <td>4-20mA</td><td>Load resistance: less than 250<math>\Omega</math>, Accuracy: +/-0.5%FS</td></tr> <tr> <td>0-10V</td><td>Load resistance: more than 10K<math>\Omega</math>, Accuracy: +/-0.5%FS</td></tr> <tr> <td>0-5V</td><td>Load resistance: more than 10K<math>\Omega</math>, Accuracy: +/-0.5%FS</td></tr> </table>	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 250 $\Omega$ , Accuracy: +/-0.5%FS	0-10V	Load resistance: more than 10K $\Omega$ , Accuracy: +/-0.5%FS	0-5V	Load resistance: more than 10K $\Omega$ , Accuracy: +/-0.5%FS
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Sampling Selection	Available to select from 6 stages (80mS to 1600mS)								
Protective function	Protect the key operation by mistake								

## Ordering Information (Example: NPS1000A-420-1)

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

Specifications are subject to change without notice.

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## AGENT:

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