

# Universal Process Indicator

## N1500



DESIGNED FOR  
HIGH-RESOLUTION  
VIEWING



- High responsiveness to process variable
- Allows visual acuity at a distance
- Timer function for safety alarms
- 30-point linearization for non-standard sensors

**N1500** universal process indicator works at fast sampling rate, which ensures high-performance indication and reaction to fast processes dynamics. With 6 digits for high-resolution variables and the 17mm height display, **N1500** provides clear view, making it easier for operators to read and diagnose from a distance.

Its timer function performs wide action capabilities through

alarms for safety interlock logic. Furthermore, **N1500** is fully compatible with custom signals through its linearized input for up to 30 points.

Both electronic robustness and anti-flame material enclosure comply with the main world-class approvals for industry devices.





### TIMER ALARM

Safety interlock logic



### DETACHABLE FRONT PANEL

Easy commissioning



### FAST SAMPLING RATE

Ideal for dynamic  
processes



### PROTECTION AND SAFETY

Anti-flame material  
UL94 V-2



### CUSTOM LINEARIZATION

30-point for  
non-standard sensors

<b>Display</b>	7-segment LED, 6-digit with 17 mm height
<b>Input Type</b>	Thermocouples J, K, T, N, R, S, B, E, Pt100, 0-20 mA, 4-20 mA, 0 -50 mV, 0-5 Vdc, 0-10 Vdc, 4-20 mA no linear, 0-20 mA custom linear, 4-20 mA custom linear, 0-20 mA custom no linear, 4-20 mA custom no linear
<b>Accuracy</b>	Thermocouples J, K, T: 0.25% of span $\pm 1^\circ\text{C}$ Thermocouples N, R, S, B: 0.25% of span $\pm 3^\circ\text{C}$ Pt100, 0-20 mA, 4-20 mA, 0- 5 Vdc, 0-10 Vdc: 0.2% of the span
<b>Sampling Rate</b>	5 samples per second for Pt100 and Thermocouples 15 samples per second for 0-50 mV, 4-20 mA, 0-5 V and 0-10 V
<b>Display Resolution</b>	Temperature: 1 / 0.1 Other measures: 1 / 0.1 / 0.01 / 0.001 / 0.0001
<b>Custom Linearization</b>	30 points for non-standard sensors
<b>Digital Input</b>	Operates as a key for Hold, Peak Hold and maximum/minimum reset
<b>Analog Output</b>	0-20 mA or 4-20 mA (optional) - electrically isolated
<b>Alarms</b>	Up to 4 alarms
<b>Alarm Types</b>	Minimum, maximum, minimum differential, maximum differential, differential out of range, differential within range, and open sensor
<b>Timer Function</b>	Alarms with delay, pulse or oscillator timing

<b>Auxiliary Power Supply</b>	24 Vcc
<b>Optional</b>	2 relays, analog output (4-20 mA or 0-20 mA), RS485
<b>Communication</b>	RS485 Modbus RTU optional
<b>Math Function</b>	Square Root
<b>Safety</b>	Password protected configuration
<b>Configuration Interface</b>	Via RS485
<b>Power Supply</b>	100-240 Vac / dc or 12-24 Vdc
<b>Maximum Consumption</b>	7.5 VA
<b>Dimensions</b>	96 x 48 x 92 mm (1/8 DIN)
<b>Front Panel</b>	IP65 Polycarbonate (PC) UL94 V-2
<b>Enclosure</b>	IP30 ABS + PC UL94 V-0
<b>Operating Conditions</b>	5 to 50 °C, and 0 to 80% RH up to 30 °C
<b>Aprovals</b>	CE, UL and cUL