



**ION ELECTRICALS PVT.LTD.**

New Panvel, Navi Mumbai

sales@ionelectricals.com

[www.ionelectricals.com](http://www.ionelectricals.com)

SINCE 1988

022 27469114/5, 022 27469117/8

## Digital Temperature / Process Scanner & Data Logger

(16, 12, 8 & 4 Channels )



ION Electricals offers Digital Temperature / Process Scanner & Data Logger which is suitable for continuous monitoring of Temperature or Process value at 16 different locations using single instrument, thereby eliminates need for number of individual temperature or process indicators and hence saves on cost and panel Space. It accepts all inputs of the same type & Displays the process value sequentially along with the respective channel number. The scan interval is adjustable from 2 to 20 Seconds. The facility is also provided to manually Pause the Scanning and increment channel manually in Hold mode.

Other than inputs from temperature Sensors this model can Accept 4-20 mA voltage Signals to monitor other Process Variables Like Pressure, Flow, pH, ORP, AC Voltage, AC current...etc.

**ION ELECTRICALS PVT.LTD.**

New Panvel, Navi Mumbai

sales@ionelectricals.com

[www.ionelectricals.com](http://www.ionelectricals.com)

SINCE 1988

022 27469114/5, 022 27469117/8

**Technical Specification of 8 Channel or 16 Channel Temp Scanner & Data Logger**

Brand /Model	ION Electrical / USM8, USM16
Application	Heat Treatment Plant , Transformer Oil Temp Measurement Power Plant, Food Processing Ovens, Lab Equipment ....& So on.
Input Sensor	R, S, N, J, K, T, B, RTD / RTD 0.1, 4-20mA
Range	PT100 : -100° C to +400° C, T Type : 0° C to 400° C, J Type : 0° C to 750° C, R Type, S Type : 0° C to 1750° C, N Type, K Type : 0° C to 1200° C, B Type : 0° C to 1820° C
Accuracy	0.1 % In All Ranges
Display	2 Seven Segment FND for Channel Selection 4 Seven Segment FND for Process Value & Parameters to be Display in Setting mode.
Scan Time	User Setable (Normally 5 sec.)
Off Set (IPC)	For RTD 0.1: -10 to 10 (value), All -100 to 100 (value)
Front Panel Keys	Membrane Soft Touch Keys
Hold / Enter	To Hold Particular Channel / To Enter in Desired Parameter
Increment / Decrement	To Increment / Decrement The Digit
Set / Next	To Move Next Parameter, To View Ambient Temperature.
ESC / RTC	To Escape From Parameter Menu / To Check RTC
Copy	To Copy Data Logs Into Pen Drive
Data logs	Scrolling 1000 (FIFO) Saturation 1 to 1000
Data log Time Interval	1 Sec. To 9999 Sec.
Communication	Mod Bus RS 485 With PC Software / Without PC Software
Slave ID	Present in Instrument
Baud Rate	19200
Data Bits	8 bit
Stop Bit	1 bit
Parity	None
Flow Control	None
Indication	Visual LED separate for all channel
Alarm Hi-Low indication	LED ON & Steady Separate for All Channel
Sensor Open Indication	Channel LED Flashing Separate for All Channel
Alarm Set	High & Low for All Channels
Current Out Put	4 to 20 mA ( Any 2 Channels)
Relay Out put	4 Relays (NO/ COM)
Relay Set	All Channels ( Any 4 Channels)
Input Power	AC 230V (50Hz) +/- 15%
Panel Cut Out for 4 & 8 Channel	92*92
Panel Cut Out for 12 & 16 Channel	92*187
Instrument for 4 & 8 Channel	96*96*136 , Abs Plastic Material
Instrument for 12 & 16 Channel	92*181*183 , Abs Plastic Material
Warranty	12 Months