INSTRU 12151

The datalogger INSTRU 12151 accepts a wide range of analog industrial sensors and accurately records the measurements in non-volatile memory.

Setup and data retrieval is done in a PC via an infrared wand through the use a Windows compatible software which plots and prints graphs, lists loggins and exports data to spreadsheets. Special mathematical functions can be programmed



SPECIFICATIONS

CHARACTERISTICS

1 or 2 universal multi-sensor channels Accepts Thermocuples J,K,T,E,N,R,S,B; Pt100, 0-50mV and 4-20mA Optional 0-5V and 0-10Vdc 12 bit resolution, 4096 levels Accuracy: 0,15% of full scale Capacity: 8111 to 65455 measur./channel Recording rate: from 0.5s to 30 day Internal real time clock compliant to 2080 Powered by internal 3.6V lithium battery Battery life: 1250 days (logging every 30s), 560 days (logging every 5s) IP65 ABS enclosure (Optional IP67) Dimensions: 64x58x35mm Operating temperature -40°C to 75°C



AUTOMAT

MEDICION

Signal input	Universal input that allows direct sensor measuring:
	besides adjustable indication range 0-50mV voltage
Desclution	and 4-20mA current.
Resolution	12 DITS (4096 IEVEIS)
Accuracy	Thermocouples J, K, T e N: 0,25% of full scale $\pm 1^{\circ}$ C
	Thermocouples E, R, S e B: 0,25% of full scale \pm 3°C
	Pt100: 0,15% of full scale
Pt100 excitation current	
Innut impodance	1000 for 4 20mA inputs
Input impedance	100Ω for thermocouples and mV.
Storage capacity	Usual: 8.111 readings
	Optional: 16.303 readings
Data offloading time	8 seconds for 8.000 bytes
Computer interface	Infrared wand
Interval between readings	0,5s to 30 days
Loggings start	Immediately
	In a user programmed time (start can be delayed up to 30 days)
Pecording mode	Instant value
Recording mode	Average of up to 250 readings for each recording
	Minimum or maximum value of up to 250 readings
	for each recording
Loggings end	At full memory
	After a preset record number
Coffeenance ministration	Never stops: overwrite oldest records
Software platform	Windows 95, Windows 98 and Windows NI It configures reads and displays data on screen in
	many ways (list, graph, text files to be exported to
	other softwares)
Power	3,6V lithium battery (1/2 AA)
	Optional external 4 to 5VCC source (when external
	source is connected, internal battery is automatically cut off)
Estimated autonomy	1245 days (interval between readings: 30s)
(based on nominal charge	1110 days (interval: 20s)
values of a 950mAh	840 days (interval: 10s)
battery)	700 days (interval: 7s)
	300 days (interval: 35)
	280 days (interval: 2s)
	150 days (interval: 1s)
	80 days (interval: 0,5s)
Battery usage indication	Battery working life estimation info (0-100%)
Working temperature	From -40°C to 70°C (thermocouple cold junction
Dimensions	58x64x25mm
Dimensions	JUNUTAJJIIII

AUTOMAT MEDICION SRL. Dr R. Bielsa 175 (ex Morlote) C1427AZA Buenos Aires. Argentina. Tel.: (54-11) 4555-0055 Fax: (54-11)4555-0444 e-mail:automat@automat.com.ar-www.automat.com.ar

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