

LDA101 /102 HAND HELD, 4 CHANNEL DATA ACQUISITION SYSTEM FOR THERMOCOUPLES AND RESISTANCE THERMOMETERS

A complete USB data acquisition system including Windows setup and DAU software, instruction manual, batteries and USB communications cable.



- Lightweight, rugged and portable
- 4 thermocouple inputs, type J,K or T
- Alternative 4 input Pt100 version
- Use stand alone or with PC
- Complete with USB cable
- Built-in display with backlight
- Easy menu driven system
- Password protection
- High accuracy, 0.1°C resolution
- Data secure even with batteries removed
- Multiple data logging sets
- Full DAU capability

Windows DAU software functions:

- Review & archive data
- Graphical interface
- Export data into Excel or CSV format
- Set-up logging parameters
- Calibrate feature, password protected

Specifications

Thermocouple version 101

Inputs	4 x thermocouples with standard miniature connectors
Range	-250°C to +1300°C. K type (others dependant upon type)
Resolution	0.1°C
Accuracy	Instrument accuracy better than $\pm 0.5^\circ\text{C}$
Cold junction	$\pm 0.3^\circ\text{C}$

Resistance thermometer version 102

Inputs	4 x Pt100 sensors via mini DIN connectors
Range	-200°C to +800°C
Resolution	0.1°C
Accuracy	Instrument accuracy better than $\pm 0.24^\circ\text{C}$

General

Display	2 by 16 character alpha-numeric backlit LCD
Logging interval	Selectable 2,5,10,15,20,30 seconds 1,2,5,10,15,20,30 minutes 1,2,3,4 hours
Log start	Manual or trigger from input channel alarms
Alarms	1 high & 1 low on each input channel for triggering
Memory	15000 readings held in non-volatile memory
Clock	Lithium battery backed real time clock to date stamp logged data
Communication	USB port for computer downloading data
Conversion	16 bit A-D CMOS converter for accuracy
Connections	Input connections via miniature type thermocouple or DIN connectors. USB and external power connectors on end panel
Power	4 x AA size alkaline batteries (400 hours nominal life) Optional mains adapter
Dimensions	195mm x 101mm x 44mm
Weight	410 g including batteries (nominal)
Software	Windows communications and data logging software Suitable for Windows 98SE, Me, 2000 and XP
USB Cable	Type A-B connectors 1.5 metre length
Environment	Operating : 0 to +50°C and 5 to 90% humidity non-condensing Storage: -20 to +70°C and 5 to 90% humidity non-condensing
Options	Rubber boot protection Mains supply adapter for bench operation Rechargeable batteries with charger Alarm output

Specifications may be subject to change

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