

1200 Series Data Logger

The 1200 series data loggers are designed to deliver outstanding performance to meet the most demanding measurement applications. Each data logging system is delivered complete with a powerful and comprehensive data acquisition software package. Supplied as standard with 8,16,24 or 32 input channels with either universal or custom sensor input connectors meeting your exact measurement requirements. Just configure the sensor inputs using our standard setup and calibration routines.



Data Logger Key Features

- 8,16,24 and 32 differential input channels with customer specific input connectors.
- Standard communications are RS232 and USB.
- Optional network interface to connect directly into your company network.
- Optional RS485 interface for long distance and multiple unit communication.
- Optional wireless Bluetooth interface for remote installations.
- Almost any sensor and/or connector system available with excitation supply if required.
- Independent timebase for each sensor input channel or test.
- Battery backed internal real time clock.
- Your data is secure with internal non volatile memory storage.
- Standard comprehensive computer software package included.
- Complete local control via keypad and display.
- Good Laboratory Practice capability with password protection.

Software

Comprehensive data acquisition software is supplied with the 1200 series data loggers. All control, download, review, archiving and exporting functions are available via the easy to use windows based software.

Channel	Reading	Status	Battery	Location	Time	Units
01	-8.8	STOP	88%	01.00.00	1.30EAP	
02	-8.2	STOP	88%	01.00.00	1.30EAP	
03	0.4	STOP	88%	01.00.00	1.30EAP	
04	0.0	STOP	88%	01.00.00	1.30EAP	
05	0.2	STOP	88%	01.00.00	1.30EAP	
06	0.0	STOP	88%	01.00.00	1.30EAP	
07	0.2	STOP	88%	01.00.00	1.30EAP	
08	0.1	STOP	88%	01.00.00	1.30EAP	
09	0.8	STOP	88%	01.00.00	1.30EAP	
10	1.8	STOP	88%	01.00.00	1.30EAP	
11	0.8	STOP	88%	01.00.00	1.30EAP	
12	0.8	STOP	88%	01.00.00	1.30EAP	
13	0.8	STOP	88%	01.00.00	1.30EAP	
14	0.8	STOP	88%	01.00.00	1.30EAP	
15	0.8	STOP	88%	01.00.00	1.30EAP	
16	0.2	STOP	88%	01.00.00	1.30EAP	

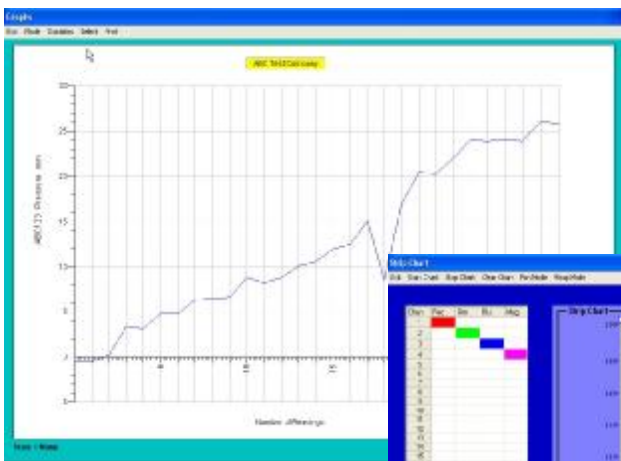
Graphical user interface for ease of use.

Complete "live data" display of all channels with control interface directly from your computer.

Computer high and low alarms available with annunciate function.

Setup any combination of channels in "test" sets. Export recorded data directly into your Excel spreadsheets and templates or in standard Comma Separated Variable (CSV) format.

Channel	Status	Range	Units	Data Log	Transducer ID	Span	Units	Transducer Base	Range Low	Test No.
1	OK	100.0	PSI		333			Feed		1
2	OK	100.0	PSI							1
3	OK	100.0	PSI							1
4	OK	100.0	PSI							1
5										
6										
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Review and print the data in graphical displays.

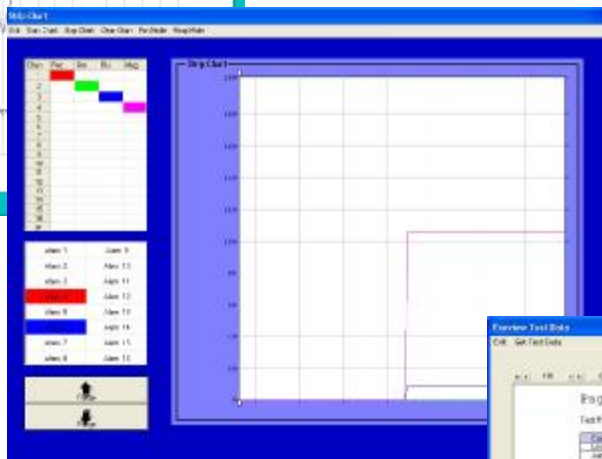


Chart recorder simulation.

Print out complete data "test" sets with ease.

Channel	Unit	Value	Unit	Value	Unit	Value	Unit
1	PSI	100.0	PSI	100.0	PSI	100.0	PSI
2	PSI	100.0	PSI	100.0	PSI	100.0	PSI
3	PSI	100.0	PSI	100.0	PSI	100.0	PSI
4	PSI	100.0	PSI	100.0	PSI	100.0	PSI
5							
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General Specifications

Inputs	: 8,16,24 or 32 differential sensor inputs. Standard sensor input : ranges included are 20mV, 200mV, 2V, 4-20mA, J, K, T,R, and N : thermocouples. Custom calibrate almost any other sensor.
Range	: Full range for standard calibrations up to $\pm 30K$. Typically full range : range for custom sensors. Please enquire for details.
Resolution	: 1 part in 32768 – 16bit (max).
Accuracy	: Dependent on range required (± 2 LSB).
Cold Junction	: Optional for temperature measurement - NTC 10K 0.1 resolution, : $\pm 0.3^{\circ}C$.
Excitation	: Fitted as standard. Excitation supply configured plus and minus for : sensors such as load cells, pressure transducers, LVDT's etc. : Typically $\pm 5V$ DC.
Display	: 4 by 20 character Backlit LCD.
Logging Interval	: Selectable Linear, Log and Square root timebases Linear timebase : settings from 6 seconds to 12 hours in 1 second increments. : Each channel has an independent timebase.
Memory	: 16,000 readings held in non-volatile memory. Optional addition : capacity's available.
Clock	: Lithium battery backed real time clock to date stamp logged data.
Communication	: Standard USB and RS232 port for computer downloading data. : Optional Network interface with standard RJ45 connector. : Optional RS485 interface. : Optional wireless Bluetooth interface.
Conversion	: 16 bit A-D CMOS converter for accuracy.
Connections	: Input connections via customer specified connectors matching : sensor requirements.
Power	: Mains - 115V/230V 50/60Hz @ 30VA approx.
Dimensions	: 120mm x 350mm x 263mm.
Weight	: Typically 3Kg.
Software	: Windows communications and data logging software : suitable for Windows 98SE, Me,2000 and XP.
Environment	: Operating 0 to $+50^{\circ}C$ and 5 to 90% humidity non condensing. : Storage -20 to $+70^{\circ}C$ and 5 to 90% humidity non condensing.