

Paperless Data Acquisition System



8 Ch Data Logger



16 Ch Data Logger

Features

- 8 or 16 Universal input (RTD Thermocouple, 0- 10 Vdc , 0- 1 Vdc 0-20 mA Or 4-20 mA Input Signals.)
- Onboard 32000 reading per channel storage .
- Parallel port .(optional)
- Individual HI/Lo alarm with 2 relay Output
- Additional relay output with optional relay card
- Networkable using Ethernet Port (optional)
- Free PC Based Data Acquisition Software
- 21 CFR Part 11 (optional)
- Front end IP65 Protection
- 3.5 inch TFT with Touch Screen Control
- Onboard USB Port (Memory Stick)
- Input Resolution : 0.1% of full scale .
- Measurement Rate : 4 channels per second on all direct input channels
- Internal Temperature Reference : 0 to 60 deg C

Benefits

- Easy to configure analog input type with front end TFT touchscreen.
- Logged data is secured as storage media is inside the unit.
- Helps to connect any type of dot matrix printer (optional).
- Relay output for control or activating external alarms.
- Individual alarm relay (HI/LO) can be provided for all 16 channels
- Data accessible Via LAN(optional)
- Logged data is secured and cannot be manipulated by user.
- Panel mounting enclosure which can sustain in harsh environment.
- Easy to use icon menu for setting user parameters with touch interface
- Logged data can be downloaded to Memory stick and transfer to pc.
- Memory storage per channel- 32k(32768 bytes).
- Also Logged data can be monitored continuously online via RS485 TO USB convertor or RS232 TO USB Convertor

Analog Inputs

DC Voltage : 0 – 10 Vdc with accuracy 0.1%

DC Current : 4 – 20mA , 0 – 20mA

Accuracy : +/-0.1% with built in shunt

Thermocouple

Resolution : 1 Deg C

0.1 Deg C Optional

Reference junction compensation : Yes

| Type | Range (Deg C) |
|------|--|
| K | Amb to 1200 Deg C -150.0 to 1200. 0 Deg C |
| J | -100 to 700 Deg C |
| N | -250 to 1200 Deg C |
| T | - 100 to 400 Deg C |
| S | 0 to 150 Deg C |
| R | 0 to 1500 Deg C |

RTD

Base Accuracy : 0.2 % oe 0.5Deg C (1Deg F)

Resolution : 0.1 Deg C , 2 or 3 wire connection

Cable compensation to + 50 ohm

Open and short circuit detection

Pt – 100 :- -199.9 to 300.0



Configuration Setting



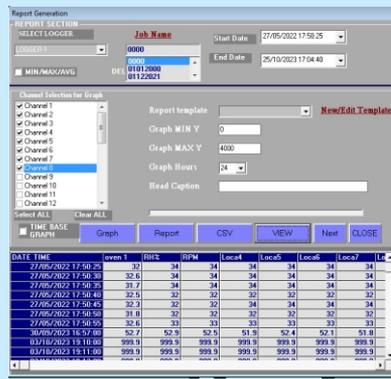
Channel Parameters



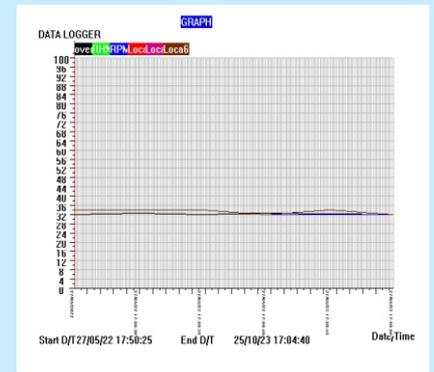
Copy Data



PC Based Software



Logging Data



Software Graph

Recording data on storage Media

Using the setup, the user can log the data in internal memory. If this memory is full the logged data can be transferred to external storage media connected on USB Port

| Record rate | 8 channel | 16 channel |
|-------------|-----------|------------|
| 1 Sec | 9 Hrs | 4.5 Hrs |
| 10 Sec | 90Hrs | 45 Hrs |
| 1 min | 540 Hrs | 270 Hrs |
| 10 min | 5400 Hrs | 2700 Hrs |

The above table shows the number of maximum reading can be stored internal memory by changing record time after the above prescribed time data must be transferred to USB storage media so as internal memory get free to store the new readings

Customization On Data Logger



Weather Station And IOT Based Data Logger

