

DSCAN10M

8 CHANNEL DATA SCANNER / LOGGER



OVERVIEW

These dataloggers process and send 8 channels of data to the PC. Datalogger software ensures realtime display on the PC as well as storing data at userprogrammed intervals The Datalogger accepts either Thermocouple, RTD, 4-20mA or 0-5V inputs. Linearization software is built-in for both Thermocouple as well as RTD ensuring 1° accuracy over the entire range.

Software stores data in industry standard database. Data is available for other software using Microsoft ODBC technology. The software comes built-in with historical reports and graphs and user definable reports.



FEATURES

- High Resolution ADC
- 2 line 16 characters blue backlit LCD
- 64k memory for data storage
- Real time clock
- RS232/RS485 - MODBUS Communication
- Stand alone mode and scanner mode
- Automatic report upload to Internet
- Realtime and historical Graphs
- Windows compatible software

SPECIFICATIONS

Power Supply	15-24 VDC / 500mA
Power	2 Watt Maximum
Indication	16 Character 2 line blue backlit LCD
No. of Channels	8
Signal Type	Thermocouple – J,K,T,E,N,B,R,S or RTD or 4-20mA or 0-5V
Measuring Range	Thermocouple: K Type -200 to 1300 °C, J Type -200 to 1200 °C
Signal Maximum	Protected for 25mA continuous or 6V DC
Conversion Type	Polynomial Extraction (For temperature measurements)
Operating Temperature	0 – 50 °C
Storing Temperature	0 – 60 °C
Humidity	0 – 85% non condensing
Accuracy	±1.5 °C
Memory	64 K External Memory for storing Data
RTC	Real Time clock to store date and time of event occurrence
Modes	Stand alone and Data Scanning Mode
Program Variables	Transmitted via Serial port for recording using PC.
Programming Method	RS232/RS485 interface through PC
Housing	Panel Mount



PC SOFTWARE

The DataScan10 comes standard with an easy to use, user-friendly software that requires minimal computer knowledge. The operation is intuitive and most functions are self explanatory.

These Data Loggers process and send 8 channels of sensor information to the PC. These values are stored in the computer at programmable intervals. Thermocouples J, K, T, E, N, B, C can be connected to the inputs. In addition channels can be factory set for 4-20mA inputs. Thermocouple inputs are amplified using very low error amplifiers. Cold junction compensation is provided on-board for maximum accuracy. The thermocouple readings are software linearized using polynomial extraction for high accuracy. The readings are accurate and repeatable. Since the inputs are linearized over the entire working range including temperature below zero, thermocouples can be used for measuring temperature below zero.

Software stores values in industry standard database. This database is available for all windows users. Users can retrieve data from this ODBC standard database and incorporate it to their designs. The software comes builtin with selectable reports as well as graphs. Graphs can be plotted for a combination of selected channels

The screenshot displays the DataScan10 software interface with several windows open:

- Settings - Sensor Settings:** A table showing channel configurations:

Channel	Input Type	Min Value	Max Value	Con.Mode	Title	Units
CH1	0-5V	0.0	1000.0	Linear	CH#1	DEGC
CH2	4-20mA	1000.0	3000.0	Linear	CH#2	Deg
CH3	4-20mA	0.00	14.00	Linear	CH#3	mA
CH4	4-20mA	0.0	100.0	Linear	CH#4	V
CH5	4-20mA	4	20	Linear	CH#5	mg/m
CH6	4-20mA	4	20	Linear	CH#6	mA
CH7	4-20mA	4	20	Linear	CH#7	Deg
CH8	4-20mA	4	20	Linear	CH#8	Deg
- Settings - Communication:** Shows Baud Rate: 9600, Comn. Port: 3, Log Interval: 1 Seconds, No. of Channels: 8, Realtime Time Interval: 1 Hours.
- Settings - Register:** Shows Company Name: Powersoft Systems, Address: T.Nagar Chennai 600017, ph: 28140386, City: chennai, State: TN, Zip: 600017.
- Time series graph:** A line graph showing data for CH#1 (DEGC) and CH#2 (Deg) over time.
- Data Scanner:** Three small graphs for CH#1 (DEGC), CH#2 (Deg), and CH#3 (mA).
- History:** A table showing a list of data points with columns for sample time and all 8 channels.
- Report:** A detailed data log report titled "Powersoft Systems Selected Data Log" with columns for Date/Time and all 8 channels.

Minimum System Requirements for all the above systems

IBM PC compatible running Win 9X/2000/XP, Available 9-pin serial port, 5Mb Hard Disk Space, 32Mb RAM



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