

Datalogger (Model 8040)

8040

TECHNICAL SPECIFICATION

Mechanical Dimensions (when I/O modules are installed)

Half 19" rack system	Approximately 270(W) x 132.5(H) x 260(D)
Full 19" rack system	Approximately 482 (W) x 132.5(H) x 260(D)

AC Power Supply

Rated Supply Voltage	90 to 260 VAC / 120 to 370V DC
Rated Supply Frequency	50/60 Hz 3%
Power Consumption	Less than 35 VA
Power Connection	3 pin terminal strip
Insulation Resistance	> 50 M Ω (between AC supply & earth)
Dielectric Strength	1.5KV AC for 60 seconds between AC supply & Earth.

Normal Operating Condition

Ambient Temperature:	0 to 55 °C
Relative Humidity	5 to 90% RH (Non condensing)

PLUGGABLE MODULES

Standard Configuration & Module Specification

The Following Modules can be installed in a main rack to configure Data Acquisition System.

SMPS Module	85 to 264 VAC or 120 to 370V DC 50/60 Hz 3 % Supply Module
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Analog Input Module

Non-Isolated Analog Input Module	Universal Input (E, J, K, T, B, R, S, RTD Pt 100 & Linear inputs) Configuration of each channel based on sensor types used
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Each Input Module consists of 16 channels

Measurement Range: Refer component specification for more details

Isolated Analog Input Module (optional)

300 V DC isolation between channel to channel

Universal Input
(E, J, K, T, B, R, S, RTD Pt 100 & Linear input)

Configuration of each channel based on sensor types used

Each Input Module consists of 16 channels

Measurement Range: Refer component specification for more details

CPU MODULE

Isolated Communication Port for Host Computer

	RS232 / RS485 isolated communication RS232 isolated communication another port also available
Protocol	Modbus RTU
Baud-rate	2400,4800,9600,19200 (programmable)
Distance	Up to 20m for RS232 and 1.2Km for RS485
Connector	9 pin female D type

Isolated Communication Port for Operating Terminal

	RS422 communication
Protocol	Modbus RTU
Baud-rate	19200 bps
Distance	Up to 20m
Connector	RJ45 connector

Centronics Printer interfacing Port

	Parallel port interfacing
Protocol	Parallel Printer protocol

CPU MODULE

Print period	Settable in Hours and Minutes OR Print on demand, separate key available as "PRN" facilitates the user to print the required channel on its invoking, irrespective of print period
Print channel selection	Any channel can be dumped to the printer
Print on Alarm	User Selectable
Connector	25 pin D type Vertical printing format (fixed)

Memory

Memory Capacity	512KB Non-Volatile RAM with battery back-up
Real Time Clock	Provided
Data Save	For measured value with time stamping
Logging Period	In Hours: Minutes: Seconds
Data log Format	With decimal
Channel Selection	Any Channel can be configured for data logging. OR Data Logging on demand, separate key available as "DATA LOGGING" facilitates the user to log the required channel data on its invoking.
Logging Start Stop	Enabled through Key pad
Log Data Printing	Available for logged records
Downloading facility	Through MAC-plus software using Modbus protocol on excel format

Alarm Module

Relay output module or Open collector module or Alarm Indication Module can be used as Alarm Module

Set point type can be configured for either 2 or 4 set points

2 Set-point configuration	High Very High (H-VH) Very Low - Low (VL-L) Low - High (L-H)
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4 Set-point configuration	Very Low - Low - High - Very High (VL-L-H-VH)
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OPEN COLLECTOR OUTPUT MODULE

16 common open collector output is provided with this module. (With the same functions as provided with relay output module)

Open Collector Logic Type	Sinking Logic
Potential Wetting	External
Wetting Voltage Rating	24V DC @ 100mA

Connector: o/c interface: 25 pin type female connector.

Application: Any o/p can be mapped to any channel for alarm

