8 CHANNEL DATA LOGGER

FOR TEMPERATURE, PRESSURE, DIFFERENTIAL PRESSURE, HUMIDITY, VACUUM APPLICATIONS

Model AI-800 Series

Applications :

To Measure & Record various parameters like vacuum, pressure, Temperature, humidity & differential pressure in a single instrument

Capabilities:

1)The instrument can at a time measure 8 inputs on its 8 channels. These inputs can be all 8 of one type (say all 8 of vacuum or Pressure or Temperature etc.) Or of different types   (Eg: Channel 1 for Humidity, Channel 2 for Temperature Channel 3 for Differential Pressure & so on)

2)Alternatively, the instrument can be used to read & record any 1 Input, on any 1 Channel & the remaining channels can be disabled using the Front keys. Similarly any number of channels can be enabled & Disabled to render the instrument as a   1 Channel/ 2 Channel/ 3 Channel / 4 Channel/ 5 Channel / 6 Channel / 7 Channel / 8 Channel Instrument.

3)Scanner: The instrument can be used as a plane scanner where in the only purpose of the instrument is to display the input value from the sensors.

4)Scanner with Memory (Data Logger): The instrument can be Provided with 5000 Readings Memory Built In for each of the 8 Channels & provided with any standard communication port   (RS 232 or RS485) for Computer connectivity. The fully loaded   Data Logger comes with Parallel Printer Port for direct print-ing   onto 80/132 column Dot Matrix Printer, 5000 Readings Memory &   any one communication port of your choice

5)Scanner With Printer Port : The instrument can be provided with a Parallel printer port for printing directly onto a 80/132 Channel Printer Without using a computer. The print interval (time gap between Successive Printouts) can be programmed using the front keys..

SPECIFICATIONS

Input Type	:	8 Nos. of Vacuum / Pressure / Humidity (4-20 mA), Temperature (4-20 mA) RTD Pt-100 Sensors, 0 -1/ 0-5 / 0-10 V DC, Any Standard Thermocouple (To be specified at time of ordering)
Display	:	1 Digit for Channel No.; 4 Digits for Process Variable
Accuracy	:	+/- 0.25 % of Full Scale
Memory	:	5000 Records of Each of the 8 Channels
Modes	:	Channel Skip , Hold & Auto Modes
Scan Time	:	1 to 59 seconds (User Programmable)
Calibration	:	Software Based for Individual Channel
Relay/ Alarm	:	2 Relay Contacts for Alarm & Trip
Size	:	96 (W) x 96 (H) x 175 (D) mm
Power Supply	:	230 V.A.C., 50 Hz, Single Phase / Optional 24 V.D.C.
Communication	:	RS 232 / RS485 /USB Computer Connectivity Output & Optional Direct 80 Column Dot Matrix Printer Port
Software Standard	:	Datalog V87 Data Viewing & Downloading Software with Charts & Direct Download to Excel Sheet
Software Pharma	:	ACE SOFT 21 CFR Part 11 Compliant Software With Audit Trail Reporting, Online Tabular View & Data Graphing

Sample Printout (User Set Print Interval of 10 minutes onto 80 column printer):

DATE	TIME	CH-01 Deg.C	CH-02 Bar	CH-03 PSI	CH-04 mm.Hg.	CH-05 % R.H.	CH-06 RPM	CH-07 TORR	CH-08 DEG.C
19/01/13	17:01:21	10.0	9.0	197.0	297.0	300.0	275.0	760.0	400.0
19/01/13	17:01:21	10.0	9.0	197.0	297.0	300.0	275.0	760.0	400.0
19/01/13	17:01:21	10.0	9.0	197.0	297.0	300.0	275.0	760.0	400.0