

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 printing 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 |



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**Store Contact:
Instrukart Holdings**

Phone: +91-40-40262020, +91-7331110506 | Email : info@instrukart.com
Web: www.instrukart.com |#77, Shaktipuram Industrial Estate, Hyderabad-500072, INDIA.