INDUMART Canada
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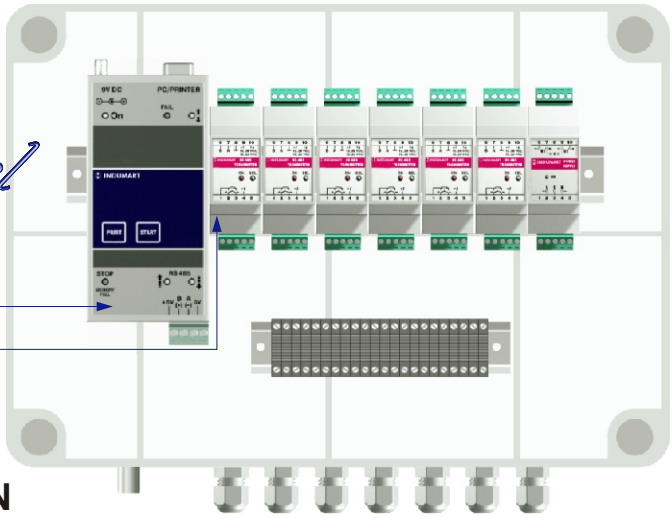
Analogue Input Data Logger with RS232 Output

multi-channel

SERIES: ADL200



- UP TO 32 INPUT CHANNELS
- UNIVERSAL SIGNAL INPUT
- INPUT-OUTPUT-POWER ISOLATION
- EASY CONFIGURATION VIA SOFTWARE
- BUILT-IN PROGRAMMABLE DIGITAL FILTER
- THERMAL PRINTER TO PRINT DATA GRAPHICALLY (OPTION)

INTRODUCTION

Indumart *ADL200 Series* of Analogue Input Data Loggers with RS232 Output are especially designed for multi-point process measurement and data acquisition in a network with up to 32 devices.

A single ADL200 unit can accept up to 32 analogue inputs such as commonly used thermocouple sensors, RTDs, PTCs and current signals. The analogue inputs are first converted to isolated RS485 digital signals using the *RST130* transducer, and then the RS485 signal is sent to the *RSD60* data logger to be stored and upon interrogation, transfer the data to a thermal printer (OT801) with RS232 interface for printing graphically or to a computer with the "InfoPrint" software installed for further data acquisition actions.

A unit of ADL200 categorically consists of five parts: 1) RST130 transducers, 2) RSD60 data logger, 3) 24 VDC/AC power supply 4) 9 VDC power supply, and 5) enclosure. This design gives an advantage of increasing the capacity of the instrument in the field by adding more RST130 transducer in future, and reduces the cost of repair substantially. In case of a malfunction, only one of the parts must replaced and the rest of components are still perfectly operable.

Each analogue to RS485 transducer (RST130) can accept one input. Thus, the number of RST130 units used inside the enclosure depends upon the number of input signal.

One unit of RSD60 data logger can collect data from a net work of up to 32 inputs with RS485 interface. The data collected can be used for printing up to 4 process charts online or up to 8 charts offline. All configuration procedures can be easily programmed with "InfoPrint" software, and may be read with programs such as Excel™, Lotus™, etc. The data logger is equipped with a keyboard and 6 LED indicators for communication and power modes.

A power supply is installed inside the enclosure to feed 24 VDC/AC power to the system. If 24 volt power is available in field, the power supply can be eliminated. The other power supply is a 9 VDC output to feed the RSD60 data logger.

Since the number of RST130 transducers used inside the ADL200 depends on the number of analogue inputs, therefore dimensions of the enclosure would vary as the quantity of analogue inputs changes.

SPECIFICATIONS

Analogue Input	Up to 32; see the table
Output Interface	RS232
Output Function	Connect to PC or serial printer
Output Format	8 (data) + 1 (stop), none parity
Output Baud Rate	9600 maximum
Output Connector	DB-9, female
Memory Capacity	32 kb
Isolation Level	1500 VAC for 1 minute
Measurement Error	0.3% of full scale
Temperature Drift	0.01°C / 1°C
Cold Junct'n Comp.	Automatic
Power to RDT130	12...28 VDC or 10...24 VAC
Power to RDS60	9 VDC/AC; 110 or 230 VAC input adaptor is included
Keyboard	Two membrane keys
Ambient Conditions	0...50°C; 0...80% RH

INPUTS TO ADL200

Input	Range	Min. Range Width
Pt100, 3-wire	-100...+600°C	50°C
Pt1000, 3-wire	-100...+600°C	50°C
PTC 1k @ 25C	-50...+150°C	50°C
PTC 2k @ 25C	-50...+150°C	50°C
Thermocouple "J"	-100...+1000°C	100°C
Thermocouple "K"	-100...+1300°C	100°C
Current	0...20 mA	set
Current	4...20 mA	set

INDICATION

***'On'* LED**	Power Supply ON
***'RS232-Comm'* LED**	Communicating with PC/Printer
***'Fail'* LED**	Failed RS232 Communication
***'Stop/Full'* LED**	RS485 Stopped or Memory Full
***'RS485-Tx'* LED**	Data Transmitting
***'RS485-Rx'* LED**	Data Receiving

ORDER CODE

ADL2 [ ] — [ ] [ ] [ ]

No. of Inputs
Enter the number of Analogue Inputs
(between 01 and 32)

Available Power
1 — 110 VAC
2 — 230 VAC
3 — 110 VAC & 24 VDC/AC
4 — 230 VAC & 24 VDC/AC

Software
"InfoPrint" software + PC Cable
X — Not Required

Thermal Printer
OT801 Thermal Printer with Cable and one Roll of Paper
X — Not Required

(Note: Additional rolls of paper must be ordered separately)

Input Type, Measuring range and unit, and sensor break output must be specified at the time ordering.

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