RECORDING CONCENTRATOR

Digital for Modbus networks

Automatic Systems T. 962 448 450 www.disai.net

DataLogN

- ♦ The DataLogN is a recording concentrator, which can be associated with many kinds of applications:
- Remote telemetering, supervised by a PC or a PLC.
- To increase the speed of exchanges between a supervisor and the various instruments of a network.
- To increase the number of instruments connected on the Modbus network.
- Convertion and uniformisation of the format of the measures in mode concentrator.

It is equipped in input with an RS485 serial port, which allows centralising and recording up to 32 distinct instruments (max. memory 4Mo, or 262035 time dated savings), and with an RS485 output to unload the recorded data for explotation on standard format (like Excel). The programming and the savings are recorded in case of power supply cut.



The DataLogN is programmed by PC software and has :

- 2 independent programmable recording processes.
- 2 relay outputs (for memory overloads, or detection of setpoint passes).
- Launching of the recordings by internal time dating, or by external signal applied to a logic input (2 logic inputs).

Insulation at 2kV between the 2 serial ports

- 2 relay outputs
- 2 logic inputs

General data

♦ Software for configuration and data explotation

The supplied software allows unloading the memory in a standard computer format, such as Excel, as well as reading and/or modifying the various programming parameters. The connection between a PC and the concentrator is made on the terminal of the output serial port, either with an RS485/RS232 converter, or with a specific RS485/RS232 interface cable, or with a mini DIN cable.

◆ RS485 communication ports

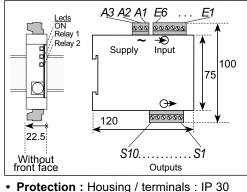
The **input port** operates in mode MODBUS master and slave, and can question up to 32 distinct slaves.

The **output port** operates in mode MODBUS slave and can be questionned by a PC, a PLC or a modem.

• **Housing**: Self-extinguishing casing of black UL94VO ABS for latching on symmetrical DIN rail (mount the cases vertically, and provide a 5 mm space between each). Plug-off connectors for screwed connectings (2.5mm², flexible or rigid).

• Standards: Complies with standards IEC 61000-6-4 on rejections and IEC 61000-6-2; immunity (in industrial environment IEC 61000-4-2 level. 3, IEC 61000-4-3 lev. 3, IEC 61000-4-4 lev. 4, IEC 61000-4-6 lev. 3. (© marking according to the EMC Directive 89-336.

Description



- Dimensions : 75x22.5x120mm (HxLxD)
- Operating T°:
 -10°C to +50°C.
- Storage T°: -20°C to +70°C.
- Relative dampness: 80% annual average.

Functions

♦ 2 management modes :

Mode master on the input port : The instrument can question up to 32 slaves.

Mode lave on the input port : A PLC (master) writes and records its measures on the instrument (32 measures possible).

◆ 2 recording processes (mode master) :

- Detection of 2 soft alarms with alarm on the value, or on the variation of a measure : start up of a process, speed up of the process recording speed, or dialing from a modem to a supervising PC.

Energy tariffs management mode for each process: cut out in 30min. sequences of 8 types of days with max. 8 counters (night tariff hours, day tariff hours, winter, summer...). Data storage: during 100 years.

♦ Recording memory :

capacity from 1 Mo (65508 savings) to 4 Mo (optional) (262035 savings) divided into 16 recording files. In case of memory overload, the recordings can either be blocked, or start again on the beginning of the same file, or another one, deleting the eldest recordings.

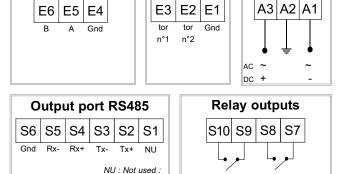
• **Weight**: 230g (with packaging)

Features

Name **Features** Type Relay 2 independently programmable setpoint relays outp. NO-NC contact: 8A - 250V on resistive load. Serial ports Input serial port: Output serial port : Type: RS485 2 or 4 wire Input Type: RS485 2 wire Without parity; even or odd Output RS232 with interface Format: 1 start bit, 1 stop bit, 8 cable data bits (without parity) or 9 bits Without parity (even or odd parity) Format: 1 start bit. 1 Internal 120 Ω termination and stop bit, 8 data bits. 470 Ω polarisation resistors, Transmission speed: configurable by jumpers from 1200 to 115200 Transmission speed: from 1200 bauds to 38400 bauds Memory 1 Mo standard Option S 4 Mo optional High voltage (2): 90 to 270 Vac and 88 to 350 Vdc Power supply Low voltage (3): 20 to 40 Vac and 20 to 64 Vdc Option 2 or 3

Wiring

Input port RS485



Logic

Power supply

Relay 2

Insulation: 2 kV 50Hz 1min. between supply / RS485 input / RS485 output / relay output / Logic input.

do not connect anything

Relay 1

This instrument is dedicated to industrial apllications. It has to be mounted in an electrical switchbox, or equivalent.

Applications

