

DIGITAL RECORDING CONCENTRATOR FOR MODBUS NETWORKS

DATALOGN/μLOG100



ARDETEM

- ♦ The DataLogN / μLog100 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.
 - Conversion 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 exploitation on standard format (like Excel).

The programming and the savings are recorded in case of power supply cut.

SFERE



The DataLogN / μLog100 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).

Isolation at 2kV between the 2 serial ports

2 relay outputs
2 logic inputs

Connexion to an RTC or GSM modem (by callback in mode Voice or direct in mode Data*)

* acc. to the possibilities of the GSM operator

General data

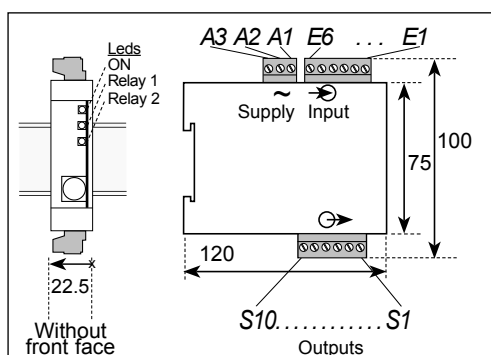
♦ Software for configuration and data exploitation

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 questioned by a PC, a PLC or a modem.

Description



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

- **Protection:** Housing / terminals : IP 30
- **Weight:** 230g (with packaging)

Functions

♦ 2 management modes:

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

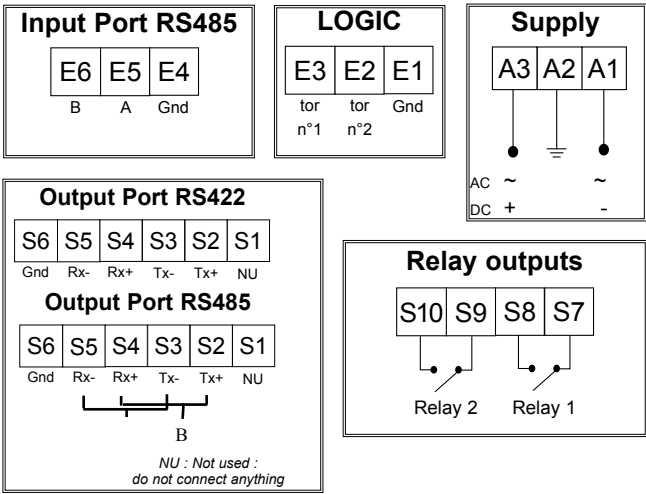
- capacity from 1 Mo (65508 savings) to 4 Mo (optional) (262035 savings) divided into 16 recording files. In case of memory overload, the recordings can either be blocked, or start again on the beginning of the same file, or another one, deleting the eldest recordings.



Features

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

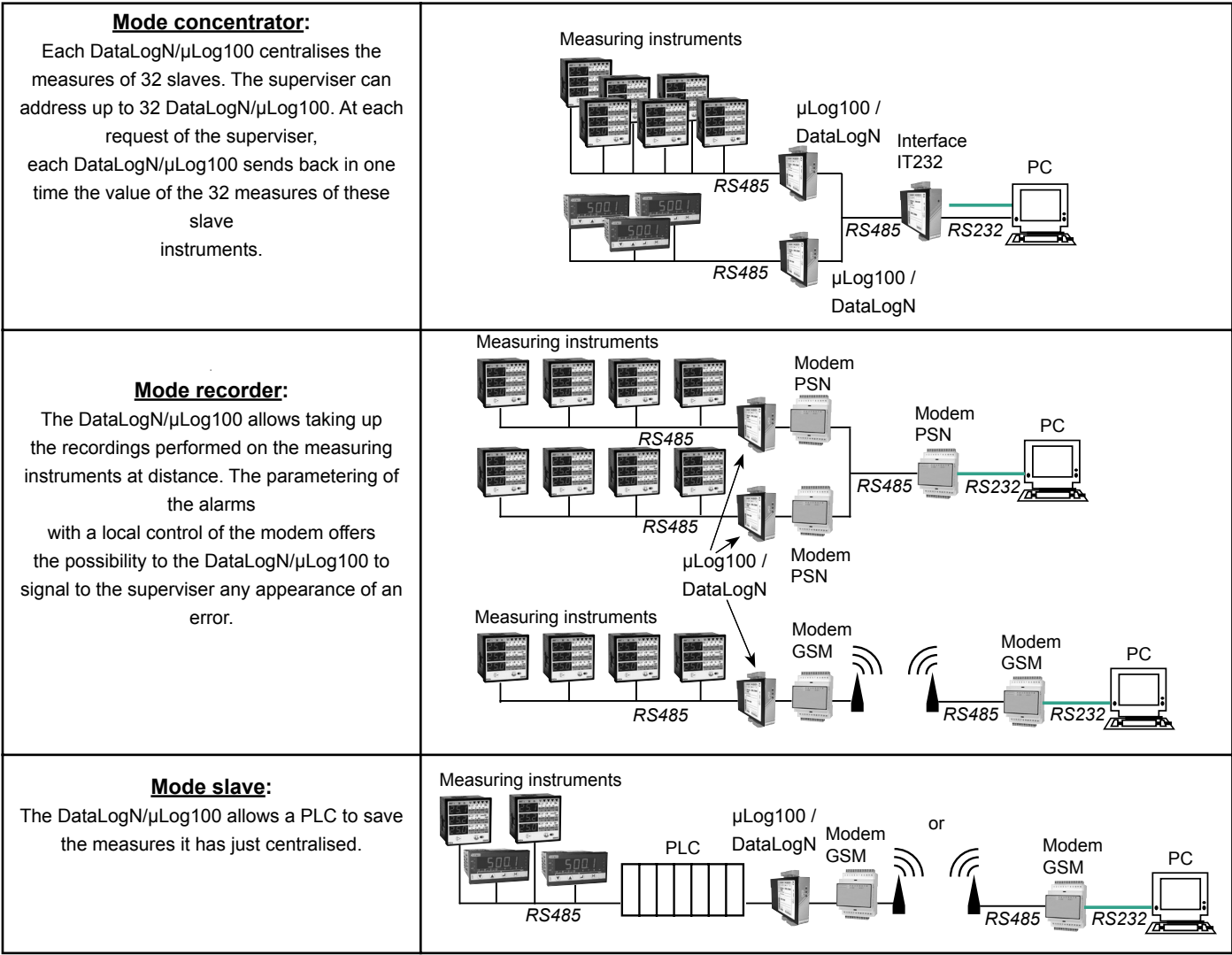
Wiring



Insulation : 2 kV 50Hz 1min. between supply / RS485 input / RS485 output / relay output / logic input (TOR).

This appliance is designed for industrial applications. It has to be installed in an electrical cabinet, or equivalent.

Applications



CA CO2016/35 - A 12/16 - Any data in this documentation may be modified without prior notice.



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