



Description

The CDL Data-Logger is a mobile system that records measured values from networks independent of mains power supply. The evaluation is carried out by a PC and the CDLWin software, which is available from Sensus.

Application

- Network management
- Recording of consumption patterns
- Recording of reservoir levels
- Recording of flow rate and pressure
- Recording of temperature deviation

Special Features

- Recording of analogue values (pressure) and flow simultaneously
- Up to 4 sensors may be connected simultaneously (CDL - 4U)
- Inputs may be used for either digital or analogue sensing devices
- 3 independent memories (day, hour and events)
- Data logging of positive and negative values
- LC-Display for current values; switchable by reed switch
- Alarm contact
- Compact design
- Battery powered (Independent of the mains power supply)
- Separate battery enclosure for standard cells (LR 6)

LC-Display

- Programming data
- Momentary values
- Extreme values
- Battery voltage

Available Options

CDL Data-Logger in aluminium cast casing with alphanumeric LC-display

Robust and watertight (IP 68)

CDL - 1U 1 input Order No. 18 20 35

CDL - 2U 2 inputs Order No. 18 20 33

CDL - 4U 4 inputs Order No. 18 20 31

Accessories

Evaluation software CDLWin,
for CDL Data-Logger Order No. 18 14 26

CDL/PC-connection cable Order No. 11 46 52

To use the CDL effectively at least one copy of the software and one connecting cable is required.

Appropriate

CDL-pressure sensors,

CDL-current interfaces,

CDL-temperature interfaces etc.

are available.

Technical Data

Type	CDL - 1U; CDL - 2U ; CDL - 4U
Inputs:	1, 2 or 4 (programmable analogue/pulse)
Memory:	separated memory blocks for day, hour and events CDL - 4U : 512 kB CDL - 2U : 256 kB CDL - 1U : 128 kB
LC-display:	2 x 16 characters, alphanumeric
Protection:	IP 68
Casing:	cast aluminium
Dimensions:	220 x 105 x 70 mm
Weight:	app. 1200 g
Operating temp.:	0 ... 50 °C
Storage temp.:	-10 ... +70 °C
Battery:	6 x Mignon LR 6 (9V) alkaline cells
Battery life time:	1/2 ... 2 years (depending on application)
Battery warning:	at 6.3 V
System clock:	real time (deviation < 10 ⁻⁴ at 10 °C ≤ T ≤ 30 °C)
Output:	V.24 / RS 232 - compatible data interface to connect to the PC All socket connectors are waterproof IP 68
Alarm contact:	FET open drain, I max 100 mA; V max 50 V

Pulse input

Input frequencies: (programmable)	High resolution $f \leq 10$ Hz (with internal pre-scaler $f \leq 50$ Hz)
Pulser:	1. mechanical contact: e.g. REED switch Resistance, closed: $R \leq 10$ kOhm ($I < 5$ mA) Resistance, open: $R \geq 4.7$ MOhm 2. Open collector pulser Resistance, closed: $V \leq 0.2$ V ($I < 5$ mA) 3. Pulser with external power source $4V \leq V_h \leq 12V$ / $0V \leq V_L \leq 0.2V$ Cable length: max. 50 m

Analogue Input

A/D converter:	12 bit, 0 ... 4096 digit
Measuring interval:	0.1 sec. ... 1 day
Unit:	programmable (bar, °C etc..)
Threshold value:	0 ... 4096 digit



Certified according to ISO 9001
Quality Management System OQS Reg.no. 3496/0

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