Electronic
Multi-Channel Datalogger

KOBOLD

ZLS

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- Graphic LC-Display, backlight

- Input:
  4-20 mA, Pt 100, Pt 500, Pt 1000

- 8 channel input

- Four presentation modes

- Interface RS 485
  Modbus RTU

- Sensor power supply

- Free scaling

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Model:
ZLS

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Description

The KOBOLD-Logger model ZLS is designed to record and display current values as well as to present technological parameters in the form of graphs. The device is equipped with 8 temperature (Pt 100, Pt 500, Pt 1000) or current (in the 0/4-20 mA standard) inputs and one impulsive (digital) input for controlling the recording process. The device has the memory capacity of 2 MB which gives max. 500 000 data recordings altogether.

The internal analogue-digital converter has a 12 bit resolution, which provides high recording resolution results. Additionally, individual alphanumeric description (text) of each of the recorded channels is possible.

The menu assisted with full text description makes the unit configuration process quite easy. However, due to a significant number of configured parameters, it is advised to use the attached configuration software for PCs.

Functions

- 1-, 4- or 8-chanel input
- Input: 0(4)-20 mA or resistance
- Data memory: 500 000 data recordings
- Digital input
- Interface: RS485 Modbus RTU
- USB Host port for flash data storage (option)

Technical Details

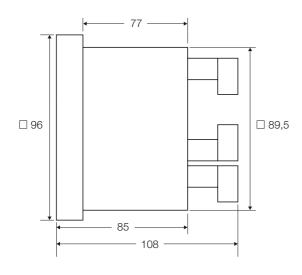|	
Display:	graphic LCD (128 x 64 points), with backlight
Measuring range:	±9999 plus decimal point
Measuring inputs:	1-, 4- or 8 Pt 100, Pt 500, Pt 1000 (2- and 3-wire connection) or 0(4)-20 mA inputs, common earthing
Current input resistance:	100 Ω
Memory capacity:	2 MB (500 000 data recording)
Additional inputs:	1 x digital input 24 V_{DC} USB (option)
Power supply voltage:	19-50 V_{DC} / 16-35 V_{AC} or 85-260 $V_{AC/DC}$
Power consumption:	typical: 7 VA max. 12 VA
Sensors supply:	24 V_{DC} ±5 % / 200 mA, not separated from measuring
Communication interface:	RS 485, galvanically separated
Transmission protocol:	MODBUS RTU
Transmission speed:	1200-115 200 bit/s
Working temperature:	0...+60 °C
Storage temperature:	-15...+80 °C
Humidity:	up to 90 % without condensation
Case dimensions:	96 x 96 x 100 mm (W x H x D)
Panel cut-out dimensions:	90.5 x 90.5 mm
Installation depth:	min. 102 mm
Board thickness:	max. 5 mm
Case:	board
Case material:	plastic
Type of protection:	front side: IP 40 / IP 65 (option) IP 20 (with USB connection) IP 42 (USB when door is installed, see accessory model: ZLS-ZDK42) 20 (with USB connection)
Connection:	screw terminal
Weight:	approx. 400 g

Order Details (Example: **ZLS-11A 0 DW4 P**)

Canals	Input		Power supply	Additional input	Housing version/ protection
	0(4)-20 mA	Pt 100, Pt 500 Pt 1000			
1	ZLS-11A...	ZLS-11P...	**0** = 85-260 V$_{AC/DC}$	**DW4** = 1 x digital	**P** = front IP 40 **G** = front IP 65
4	ZLS-14A...	ZLS-14P...	**3** = 19-50 V$_{DC}$	**UW4** = USB and 1 x digital	**P** = front IP 20
8	ZLS-18A...	ZLS-18P...			

Software included

● »Toolkit«, PC software for data logger easy configuring

● »Loggy Soft«, PC software for moving, reporting, archiving and displaying recorded data

Accessories

● Converter module USB-RS 485 **Type: ZLS-Z USB RS4**

● Converter module RS 232-RS 485 Type: **ZLS-Z RS2 RS4**

● Transparent door with lock for DIN housing Protection IP 42 Type: **ZLS-Z DK42**

Dimensions