



## Electronic Multi-Channel Datalogger



measuring  
•  
monitoring  
•  
analysing

### ZLS



- Graphic LC-Display, backlight
- Input:  
4 ... 20 mA, Pt 100, Pt 500, Pt 1000
- 8 channel input
- 2 Switching outputs
- Four presentation modes
- Interface RS 485, Modbus RTU
- Sensor power supply
- Free scaling



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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 (Pt100, Pt500, Pt1000) 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-channel input
- Input: 0(4)-20 mA or resistance
- Data memory: 500 000 data recordings
- Digital input
- 2 switching output
- Interface: RS485, Modbus RTU
- USB Host port for flash data storage (option)

### Technical Details

Display:	graphic LCD (128x64 points), with backlight
Measuring range:	±9999 plus decimal point (current input) -100,0 ... +600,0 °C (temperature input)
Measuring inputs:	1-, 4- or 8-channel 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) 8 MB (2 000 000 data recording, ZLS-...UW4P)
Recording interval:	1 s ... 1 h
Additional inputs:	1x digital input 24 V <sub>DC</sub> (option: USB)
Switching outputs:	2 elektronical N/C contacts 24 V <sub>AC/DC</sub> , max. 200 mA, short-circuit proof
Power supply voltage:	19-50 V <sub>DC</sub> / 16-35 V <sub>AC</sub> or 85-260 V <sub>AC/DC</sub>
Power consumption:	typical: 7 VA max. 12 VA
Sensors supply:	24 V <sub>DC</sub> ±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:	-10 ... +70 °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
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) IP 20 rear side
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	Pt100, Pt500, Pt1000			
1	ZLS-11A..	ZLS-11P..	0 = 85-260 V <sub>AC/DC</sub> 3 = 19-50 V <sub>DC</sub>	DW4 = 1x digital	P = front IP 40 G = front IP 65
4	ZLS-14A..	ZLS-14P..			
8	ZLS-18A..	ZLS-18P..		UW4 = USB (front) and 1x digital	P = front IP 20

**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  
**Model: ZLS-Z USB RS4**
- Converter module RS 232 - RS 485  
**Model: ZLS-Z RS2 RS4**
- Transparent door with lock for DIN housing  
Protection IP 42  
**Model: ZLS-Z DK42**

**Dimensions**

