Electronic Multi-Channel Datalogger

KOBOLD

ZLS-2

Z2

- Graphic LC-Display, backlight
- Input: mA + V or RTD + thermocouple
- 8 channel input
- 2 switching outputs
- Four presentation modes
- Interface RS 485, Modbus RTU, USP PC
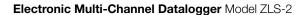- Sensor power supply
- Free scaling

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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 thermocouples or current/voltage (mA, V standard) inputs and one impulsive (digital) input for controlling the recording process. The device has the memory capacity of 8 MB which gives max. 3 000 000 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: TC + RTD or mA + V
- Data memory: 3 000 000 data recordings
- Digital input
- 2 switching output
- Interface: RS 485, Modbus RTU
- USB host port for flash data storage

Technical Details

Display:	graphic LCD (128 x 64 points), with backlight
Measuring range:	±9999 plus decimal point (current/voltage input) -100.0...+600.0 °C with 0.1 °C resolution (RTD input) -200.0...+1820.0 °C with 0.1 °C resolution (thermocouple input)

Measuring inputs:	1-, 4- or 8-channel Pt 100, Pt 500, Pt 1000, thermocouples (2- and 3-wire connection) or 0(4)-20 mA, 0-5(10) V inputs common earthing
Current input resistance:	100 Ω
Memory capacity:	8 MB (3 000 000 data recordings)
Recording interval:	1 s ... 1 h
Additional inputs:	1x digital input 24 V_{DC}

Note: Some USB pendrives are not supported by ZLS because of different controllers. Memory sticks approved by KOBOLD available on request.

Switching outputs:	2 electronical N/C contacts 24 $V_{AC/DC}$, max. 200 mA (only with 0(4)...20 mA version), short-circuit proof
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 (only with 0(4)...20 mA version), not separated from measuring
Communication interface:	RS 485, galvanically separated + USB PC
Transmission protocol:	Modbus RTU
Transmission speed:	1200 - 115 200 bit/s
Working temperature:	0...+50 °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:	IP 40 (front USB version) or IP 54 (when transparent door is installed, see accessory model ZLS-Z DK42) IP 20 rear side
Connection:	screw terminal
Weight:	approx. 400 g

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Order Details (Example: **ZLS-21A 0 UW4 P**)

Canals	Input		Power supply	Additional input	Housing version/ protection
	0-5(10) V/ 0(4)-20 mA	Thermocouple or Pt100, Pt500, Pt1000			
1	ZLS-21A..	ZLS-21P..	**0** = 85-260 $V_{AC/DC}$ **3** = 19-50 V_{DC}	**UW4** = USB (front) and 1x digital	**P** = front IP40
4	ZLS-24A..	ZLS-24P..			
8	ZLS-28A..	ZLS-28P..			

Software included

- »Toolkit«, PC software for data logger easy configuring
- »Logy Soft«, PC software for moving, reporting, archiving and displaying recorded data

Accessories

- Converter module USB-RS 485
  Weight: 130 g
  Model: ZLS-Z USB RS4 A
- Transparent door with lock for DIN housing
  Protection IP54
  Model: ZLS-Z DK42

Following options are available on request:
- USB host port on rear side
- IP65 protection class
- Extended working temperature range from -20...+50°C

Dimensions [mm]

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