

Electronic Multi-Channel Datalogger

for Current, Voltage, or Temperature Inputs



measuring
•
monitoring
•
analyzing

ZLS-2



- Graphic LCD Display, Backlight
- Input: 4...20 mA, 0 - 5 (10)V, Pt 100, Pt 500, Pt 1000
- 8 Channel Input
- 2 Switching Outputs
- Four Presentation Modes
- Interface RS 485, Modbus RTU, USB
- Sensor Power Supply
- Fully Scalable



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Description

The KOBOLD model ZLS is designed to record and display current values and technological parameters in the form of graphs. The device is equipped with 8 temperature (Pt100, Pt500, Pt1000) , current 4 - 20mA, 0 - 5 (10)V inputs and one digital input for controlling the recording process. It has a 8 MB memory, provides a maximum of 3000000 data recordings. The internal analog-digital converter has a 12 bit resolution, which provides high recording resolutions. Additionally, individual alphanumeric description (text) of each of the recorded channels is possible. The menu with full text description makes the unit easy to configure. However, due to a significant number of configured parameters, it is advisable to use the attached configuration software for PCs.



Functions

- 1, 4 or 8 Channel Input
- Input: TC + RTD or mA + V
- Data Memory: 3,000,000 Data Recordings
- Digital Input
- 2 Switching Outputs
- Interface: RS485, Modbus RTU
- USB Front Port for Flash Data Storage

Technical Details

| | |
|----------------------------------|---|
| Display: | Graphic LCD (128x64 Points), with Backlight |
| Measuring Range: | ±9999 plus Decimal Point (Current Input) -148...1,112 °F (Temperature Input) |
| Measuring Inputs: | 1, 4, or 8 Channel Pt 100, Pt 500, Pt 1000 (2- and 3-wire Connection) or 4 -20 mA, 0 - 5 (10)V Inputs, Common Grounding |
| 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 pen drives are not supported by the ZLS because of different controllers. Memory sticks approved by KOBOLD are available on request.

Switching Outputs: 2 Electronic N/C Contacts
24 V_{AC/DC}, Max. 200 mA,
Short-circuit Proof

Supply Voltage: 19-50 V_{DC} or
85-260 V_{AC/DC}

Power Consumption: Typical: 7 VA
Max. 12 VA

Sensor Supply: 24 V_{DC} ±5% / 200 mA,
(Not Separated from Measuring)

Communication Interface: RS485, Galvanically Separated +
USB

Transmission Protocol: Modbus RTU

Transmission Speed: 1,200 - 115, 200 bit/s

Working Temperature: 32...140 °F

Storage Temperature: 14...158 °F

Humidity: Up to 90% without Condensation

Case Dimensions: 3.8" x 3.8" x 4.25" (W x H x D)

Panel Cut-out Dimensions: 3.56" x 3.56"

Installation Depth: Minimum of approx. 4.0"

Board Thickness: Max. 0.20"

Case: Board

Case Material: Plastic

Protection: IP40
IP54 (when Door is Installed,
Accessory Model ZLS - ZOK42)
IP20 Rear Side

Connection: Screw Terminal

Weight: Approx. 0.88 lbs



Order Details (Example: **ZLS-21A0UW4P**)

| Model | Number of Channels | Input Signal | Power Supply | Additional Input Signal | Housing Version/Protection |
|-----------------|---|--|--|------------------------------|----------------------------|
| ZLS-2.. | ..1.. = 1 Channel ..4.. = 4 Channels ..8.. = 8 Channels | ..A.. = 4-20 mA, 0-5(10) V ..P.. = Pt100, Pt500, Pt1000 | ..0.. = 85-260 V _{AC/DC} ..3.. = 19-50 V _{DC} | ..UW4.. = 1x Digital and USB | ..P = Front IP40 |
| Accessories | | | | | |
| ZLS-Z USB RS4 A | Converter Module USB-RS485, Weight: 0.29 lbs | | | | |
| ZLS-Z RS2 RS4 | Converter Module RS232 - RS485, Weight: 0.44 lbs | | | | |
| ZLS-Z DK42 | Transparent Door with Lock for DIN Housing (Protection IP54) | | | | |

Software Included

- **Toolkit:** PC software for data logger, easy configuring
- **Loggy Soft:** PC software for moving, reporting, archiving and displaying recorded data

Following Options are Available on Request:

- USB Host Port on Read Side
- IP65 Protection Class
- Extended Working Temperature Range from -4...122 °F

Dimensions

