Electronic Multi-Channel Datalogger

for Current or Temperature Inputs



measuring

monitoring

analyzing

ZLS



- Graphic LCD 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
- Fully Scalable



Order from: C A Briggs Company

622 Mary Street; Suite 101; Warminster, PA 18974 Phone: 267-673-8117 - 800-352-6265; Fax: 267-673-8118

Sales@cabriggs.com - www.cabriggs.com

KOBOLD Instruments, Inc. 1801 Parkway View Drive Pittsburgh, PA 15205

Electronic Multi-Channel Datalogger Model ZLS



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) or current (4-20 mA standard) inputs and one digital input for controlling the recording process. It has a 2 MB memory, provides a maximum of 500,000 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.



1, 4 or 8 Channel Input

Input: 4-20 mA or Resistance

Data Memory: 500,000 Data Recordings

Digital Input

2 Switching Outputs

• Interface: RS 485, Modbus RTU

USB Host Port for Flash Data Storage (Optional)

Technical Details

Display: Graphic LCD (128x64 Points),

with Backlight

Measuring Range: ±9999 plus Decimal Point

(Current Input) -148...1,112 °F (Temperature Input) 1, 4, or 8 Channel

Measuring Inputs: 1, 4, or 8 Channel Pt 100, Pt 500, Pt 1000

(2- and 3-wire Connection) or 4 -20 mA Inputs, Common Grounding

Current Input

Resistance: 100Ω Memory Capacity: 2 MB

(500,000 Data Recordings)

8 MB

(2,000,000 Data Recordings,

ZLS-..UW4P)

Recording Interval: 1s...1h



Additional Inputs: 1x Digital Input 24 VDC

(Optional: USB)

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} / 16-35 V_{AC} or

85-260 VAC/DC Typical: 7 VA

Power Consumption: Typical: 7 VA

Max. 12 VA

Sensor Supply: 24 Vpc ±5 % / 200 mA,

(Not Separated from Measuring)

Communication

Interface: RS 485, Galvanically Separated

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: 3.53" x 3.53"

Installation Depth: Minimum of approx. 4.0"

Board Thickness: Max. 0.20"

Case: Board

Case Material: Plastic

Protection: Front Side IP 40, IP 65 (Optional)

IP20 (with USB Connection)
IP42 (USB when Door is Installed, see Accessory Model ZLS-ZDK42)

IP20 Rear Side

Connection: Screw Terminal
Weight: Approx. 0.88 lbs



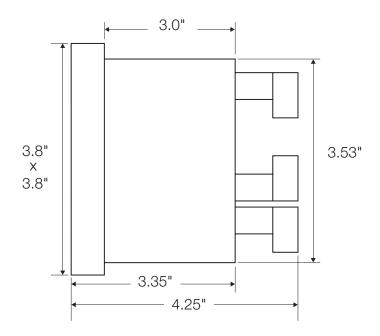
Order Details (Example: ZLS-1 1 A 10 DW4 P)

Model	Number of Channe	ls Input Signal	Power Supply	Additional Input Signal	Housing Version/ Protection
ZLS-1	1 = 1 Channel4 = 4 Channels8 = 8 Channels	A = 4-20 mA P = Pt100, Pt500, Pt1000	10 = 85-260 VAC/DC 13 = 19-50 VDC 16-35 VAC	DW4 = 1x Digital	P = Front IP40 G = Front IP65
				UW4 = 1x Digital and USB	P = Front IP20
Accessories					
ZLS-Z USB RS4 A		Converter Module USB-RS 485			
ZLS-Z RS2 RS4		Converter Module RS 232 - RS 485			
ZLS-Z DK 42		Transparent Door with Lock for DIN Housing (Protection IP 42)			

Software Included

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

Dimensions



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