



Benchtop Datalogger

With PID Control

FEATURES:

- Portable, Rugged Design, NEMA 4 Optional
- Touchscreen Graphic User Interface
- Fully Customizable Graphics
- Logs up to 16 Channels
- Optional PID Loops
- Ethernet/IP, Modbus 485 Communications
- Interfaces with National Instruments' Labview®
- Optional Expansion up to 64 channels

Zesta's Benchtop Datalogger is designed for precision measurement and data collection. Its compact and rugged design allows for portability and toughness in the most demanding environments.

The Benchtop Datalogger's touchscreen GUI offers easy viewing and access to all channels simultaneously. Screen graphics are fully customizable, allowing users to view data graphically, tailored to their specific system setup and orientation.

The Benchtop Datalogger is offered in 4, 8, 12, & 16 channel configurations. Input types include thermocouple, RTD, thermistor, and process signals (4-20mA, 0-10VDC, etc). Internal modular units allow for multiple input types, making the Zesta Benchtop Datalogger fully customizable for your specific application.

Data is stored on board, and is exportable through a USB port.

BENEFITS:

- Suitable for the Harshest Environments
- Easy to Setup and Operate
- View the Exact Data You Want in Real-time
- Versatile Range of Inputs
- Control the Process you are Monitoring
- Monitor/Control Unit Remotely Through VNC
- Easy Integration into Existing Networks
- Fully Customizable and Versatile

Communications are available in the following protocols:

- EIA 232/485, Modbus® RTU
- EtherNet/IP™, Modbus® TCP, 10 BASE-T/100 BASE-TX
- DeviceNet™
- PROFIBUS DP
- Watlow Standard Bus®

Integration with National Instruments' popular Labview® software is also available. Labview® drivers are available in a free download.

Custom Benchtop Dataloggers are also available, which are expandable up to 64+ channels. Please consult a Zesta sales representative for details.



1-800-755-5418
www.zesta.com

SPECIFICATIONS

Power

- 120V (90-125 VAC), 50/60Hz
- 5ft power cord c/w 15A, 125VAC plug

Signal Input

Thermocouple, grounded or ungrounded:

- Universal Jacks - accepts all standard size and miniature male connectors.
- Type J: -184 to 1832°F (-120 to 1000°C)
- Type K: -328 to 2498°F (-200 to 1370°C)
- Type T: -418 to 752°F (-250 to 400°C)

RTD, 2-wire or 3-wire:

- PT100(DIN) -210°C to 700°C (-346° to 1292°F)
- PT100(JIS) -200°C to 600°C (-328°F to 1112°F)
- 0-1000Ω

Thermistor:

- 0-40kΩ, 0-20kΩ, 0-10kΩ, 0-5kΩ
- 2.252kΩ and 10kΩ base at 77°F (25°C)
- Linearization curves built in

Universal Process:

- Process, 0-20mA @ 100Ω, or 0-10VDC @ 20kΩ input impedance; scalable, 0-50mV, 0-1000Ω
- Process: -1999 to 9999 units

Operator Interface

- Touch Screen Operator Interface Terminal
- 6.1 x 3.4 in. (154 x 87 mm)
- User customizable graphics

PID Control Output (optional)

- Solid state relay, zero cross, fast cycle times
- 12A, 125VAC receptacle (NEMA 5-15R)
- Resistive loads only
- 12A total or combined (15A fast acting fuse)
- Profiling up to 40 steps

Limit/Alarm Output (optional)

- Mechanical Relay, 5A, Form C

Environmental

- Operating ambient temperature: 0°C to 40°C
- NEMA Type 1 Enclosure
- NEMA 4 (optional)

Agency Approval

- CSA/UL508 NRTL/C, File No.LR91385



ORDERING INFORMATION

To order, complete the code number to the right with the information below:

Z C P D

Number of Channels:

- 1 = 4 Channels
- 2 = 8 Channels
- 3 = 12 Channels
- 4 = 16 Channels

Input Type:

- J = Type J Thermocouple
- K = Type K Thermocouple
- T = Type T Thermocouple
- 2 = 2 Wire RTD (PT100 DIN or JIS)
- 3 = 3 Wire RTD (PT100 DIN or JIS)
- 4 = 4-20 mA
- 5 = 0-10 VDC
- X = Other (T/C types B,E,N,R/S,PtII, or Thermistor)
- Z = Other Process signal - Current or Volts
- M = Mixed Inputs (consult factory)

PID Control Loop(s):

- 0 = None
- 1 = 1 PID Control Loops (with Profiling)
- 2 = 2 PID Control Loops (with Profiling)

Limit/Alarm Output(s):

- 0 = None
- 1 = 1 Mechanical Limit/Alarm Output
- 2 = 2 Mechanical Limit/Alarm Outputs

Communications:

- 0 = None
- 2 = EIA 232/485, Modbus® RTU
- X = Custom (consult factory)

Enclosure/Custom Options:

- 1 = NEMA 1, General Purpose
- 4 = NEMA 4, Water Resistant, Heavy Duty
- X = Custom (consult factory)

Benchtop Series:

- D = Datalogger



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