ez90

Three-Channel Pulse Data Logger

The ez90 is a versatile data logger designed for counting and recording digital pulses or switch contact closures. It has two input channels, each with three selectable frequency ranges. Data can be displayed in custom engineering units using the simple equation editor in the software. It also has one internal channel for recording ambient temperature.

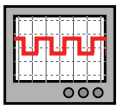
APPLICATIONS

Food process verification, pharmaceutical and/or laboratory storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

GENERAL SPECIFICATIONS

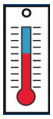
Size:	107mm x 74mm x 22mm
Weight:	110 g
Case Material:	Plastic
Battery:	3.6 volt Lithium
Resolution:	8-bit (1 part in 256)
Mounting:	Magnetic backing or locking eyelet
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	Continuous (First-in First-out), Stop When Full (Fill-then-stop)
Operating Limits:	-40°C to 70°C and 0 to 95% RH (non-condensing)
PC Requirements:	Windows PC with at least one free USB or serial port (depending on interface)
Software Requirements:	Compatible with Windows XP SP3, Windows Vista SP2 & Windows 7 (32 bit & 64 bit)
Memory Size:	32 KB (capable of storing up to 32,767 readings)
Sampling Rates:	User selectable rates from 8 seconds to 5 days in 4-second increments
Number of Channels:	Three (One for internal temperature sensor and two external inputs for pulse signals or dry switch contact closures) NOTE: For "switch status" logging, see ez80

SENSOR SPECIFICATIONS



Internal Temperature Sensor

Type:	NTC Thermistor - 10,000 Ohm @ 25°C
Range:	-40°C to 70°C
Accuracy:	±0.2°C over the range of 0°C to 70°C
Resolution:	0.4°C @ 25°C; better than 1°C between -25°C and 70°C; better than 2.0°C between -40°C and -25°C



External Inputs

Switch Contact Type:	Uncommitted switch or relay contacts
Logic Input Type:	Active logic signals
Ranges:	32 pulses/second 64 pulses/second 128 pulses/second
Minimum Pulse Width:	4 milliseconds
Input Voltage:	Low = 0 to 0.5 volts DC High = 4.5 to 24 volts DC
Input Impedance:	750K Ohm

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