



Pulse Datalogger

Pulse101A



Pulse101A Pulse Datalogger



Features

- 10 Year Battery Life
- 1 Second Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 500,000 Reading Storage Capacity
- Memory Wrap
- Battery Life Indicator
- Optional Password Protection
- N.I.S.T. Traceable
- Field Upgradeable

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Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

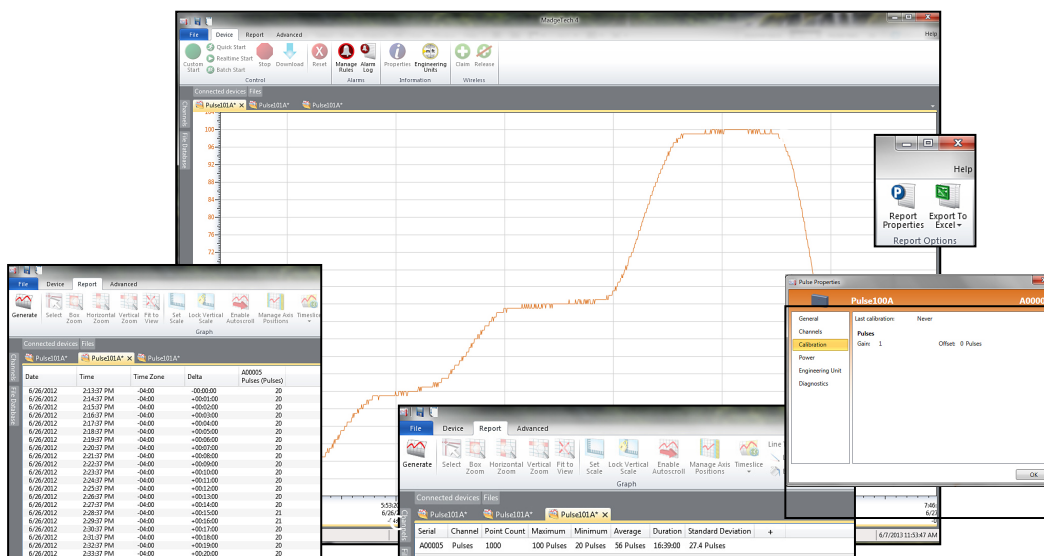
- Compatible with Dry Contact Closures
- Flow Rate Recording
- Gas and Water Metering
- Traffic Studies
- Frequency Recording
- Air Speed Indicators
- General Purpose Pulse Recording

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SOFTWARE



Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

PULSE101A SPECIFICATIONS

Input Connection: Removable screw terminal

Maximum Pulse Rate: 10KHz

Input Range: 0 to 30VDC continuous

Input Low: < 0.4 V

Input High: > 2.8 V

Internal Weak Pull-Up: <60µA

Input Impedance: >60kΩ

Minimum Pulse Width: ≥ 10 microseconds

Contact Closure Duration:

Reading Rate: 1 reading every second to 1 every 24 hours

Memory: 500,000 readings; software configurable memory wrap
250,000 readings in multiple start/stop mode

Wrap Around: Yes

Start Modes:

- Immediate start
- Delay start up to 18 months
- Multiple pushbutton start/stop

Stop Modes:

- Manual through software
- Timed (specific date and time)

Multiple Start/Stop Mode: Start and stop the device multiple times without having to download data or communicate with a PC

Multiple Start/Stop Mode To start the device:

Activation: Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging.

To stop the device:

Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging.

Real Time Recording: The device may be used with PC to monitor and record data in real-time

LED Functionality: Green LED blinks:

10 second rate to indicate logging
15 second rate to indicate delay start mode

Red LED blinks:

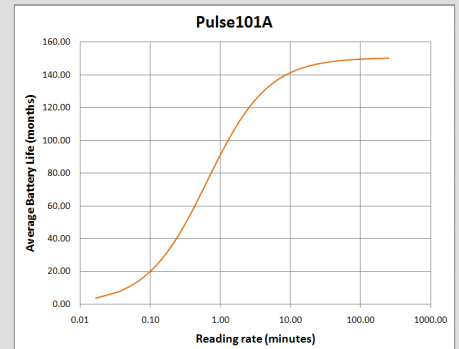
10 second rate to indicate low battery and/or full memory

Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.

Engineering Units: Native measurement units can be scaled to display measurement units of another type. This is useful when monitoring outputs from different types of sensors such as flow rate, wind speed and more

Battery Type: 3.6V lithium battery included; user replaceable

Battery Life: 10 years typical, dependent upon frequency and duty cycle



Graph display of the device recording in a 25°C environment.

Time Accuracy: ±1 minute/month (at 20°C/68°F, stand alone data logging)

Computer Interface: USB (interface cable required); 115,200 baud

Software: XP SP3/Vista/Windows 7

Operating -40°C to +80°C (-40°F to +176°F), 0%RH to
Environment: 95%RH non-condensing

Dimensions: 1.4" x 2.5" x 0.6" (36mm x 64mm x 16mm)

Weight: 0.9 oz (24 g)

Materials: ABS Plastic

Approvals: CE

BATTERY WARNING: WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80°C (176°F).

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY.

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