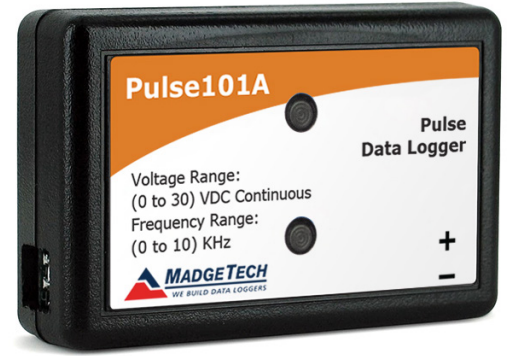# Pulse101A
Pulse Data Logger

The Pulse101A is a compact data logger compatible with many switches, meters and transducers. This multipurpose pulse recording device is designed to accurately monitor and record events occurring within a specified time frame.

The Pulse101A can be used for flow rate, gas and water metering, or can also be used in conjunction with an anemometer to track air speed. This versatile low cost device is compatible with dry contact closures and has many general purpose uses such as frequency monitoring and traffic studies.

The Pulse101A has a maximum pulse rate of 10 KHz to capture rapid events for a wide range of applications. With a ten year battery life and the ability to store over 1,000,000 readings, the Pulse101A can be deployed for long term assignments and configured to start and stop logging as specified by the user.
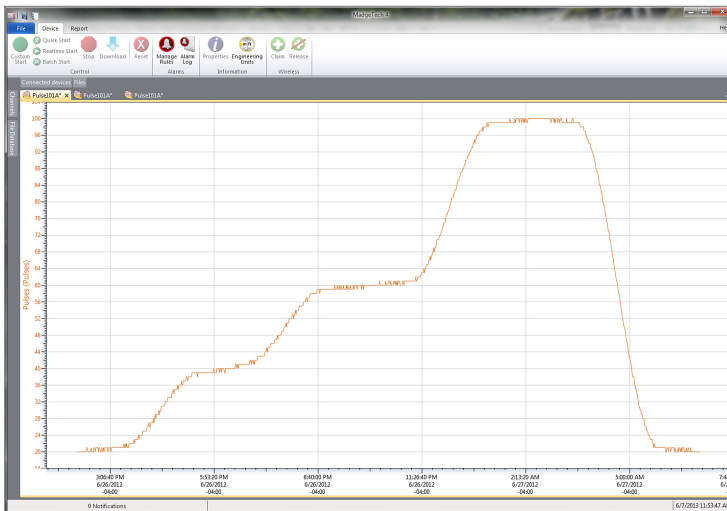
Features

- 10 Year Battery Life
- 1 Second Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 1,047,552 Reading Storage Capacity
- Memory Wrap
- Battery Life Indicator
- Optional Password Protection
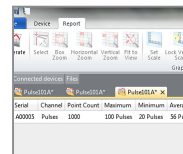- Field Upgradeable

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

MadgeTech 4 Software Features

Graph View
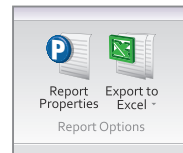

Statistics

Export to Excel

Tabular Data View

Automation

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
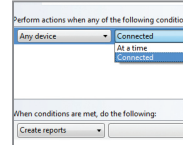- Min./Max./Average lines
- Summary view

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to **madgetech.com** for details.

MEASUREMENT

Input Connection	Removable screw terminal
Maximum Pulse Rate	10 KHz
Input Range	0 to 30 VDC continuous
Input Low	< 0.4 V
Input High	> 2.8 V
Internal Weak Pull-Up	< 60 µA
Input Impedance	> 60 kΩ
Minimum Pulse Width/ Contact Closure Duration	≥ 10 microseconds
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

GENERAL

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
Real Time Recording	May be used with PC to monitor and record data in real time
Password Protection	An optional password may be programmed into the device to restrict access to configuration options. Data may be read without the password.
Memory	1,047,552 readings; software configurable memory wrap 349,184 readings in multiple start/stop mode
Wrap Around	Yes
Reading Rate	1 reading every second up to 1 reading every 24 hours
Alarm	Programmable high and low limits; alarm is activated when recording environment reaches or exceeds set limits
LEDs	2 status LEDs
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	3.6 V lithium battery included; user replaceable
Battery Life	10 years typical, dependent upon frequency and duty cycle
Data Format	Date and time stamped uA, mA, A
Time Accuracy	±1 minute/month at 25 ºC (77 ºF) – Stand alone data logging
Computer Interface	USB (interface cable required); 115,200 baud
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version 2.03.06 or later Secure Software version 4.1.3.0 or later
Operating Environment	-40 ºC to +80 ºC (-40 °F to +176 °F) 0 %RH to 95 %RH non-condensing
Dimensions	1.4 in x 2.1 in x 0.6 in (35 mm x 54 mm x 15 mm)
Weight	0.8 oz (24 g)
Material	Polycarbonate
Approvals	CE

BATTERY WARNING: FIRE, EXPLOSION AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 100 °C (212 °F), INCINERATE, CRUSH, OR EXPOSE CONTENTS TO WATER.

Ordering Information

Pulse101A	PN 901312-00	Pulse Data Logger
IFC200	PN 900298-00	USB interface cable
LTC-7PN	PN 900352-00	Replacement battery for the Pulse101A

For Quantity Discounts call (603) 456-2011 or email **sales@madgetech.com**