

PULSE101 Pulse Recorder

FEATURES

- Up to 100Hz input
- User programmable time bins
- Programmable engineering units
- Interfaces to pulse output flow meters and contact closures
- * Real time operation
- Miniature size
- User-friendly
- Reusable
- Low cost

Applications

- Remote monitoring of contact closures
- · Remote counting and totalizing
- Flow rate recording
- · Gas and water metering
- Traffic studies
- Frequency recording
- Speedometer/rotational speed indicator

The Pulse101 is a miniature, low-cost recording device which senses pulse inputs or contact closures from external sources such as transducers and/or pulse initiators. It can collect as many as 100 pulses per second and store up to



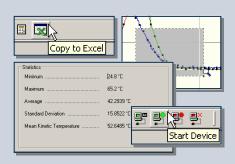
16,383 totalized pulse counts in its non-volatile memory. The device can be started and stopped directly from a computer and its small size allows it to fit almost anywhere.

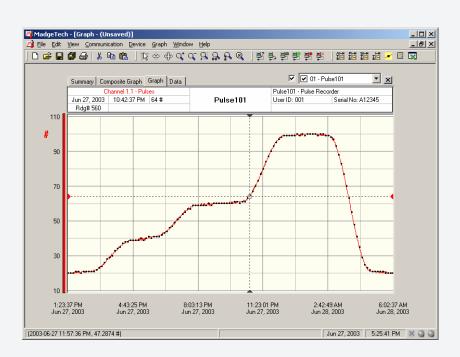
A common application for the Pulse101 is to measure the flow rate or total volume of a pipeline. With programmable engineering units available, the user has the ability to scale the data collected into useable units, such as gallons per minute. This unique option enables the user to easily linearize and scale most any transducer that provides a pulse or contact closure output to the user required units.

The MadgeTech software will effortlessly show statistical information based upon the type of unit stored in the device. If additional analysis is necessary, one click of a button will export the data into an MS Excel® spreadsheet for further analysis.

SOFTWARE

MadgeTech's Data Recorder
Software is an easy to use
Windows-based software package
that allows the user to effortlessly
collect, display and analyze data.
A variety of powerful tools allow
you to examine, export, and print
professional looking data with just
a click of the mouse.





Demo our software at www.madgetech.com

PULSE101 SPECIFICATIONS

Input Connection: Removable screw terminal

Input Low: < 0.4 V Input High: > 2.7 V

Input Range: 0 to 12VDC continuous

(0 to 30VDC peak)

Input Impedance: >1 kΩ

Minimum Pulse Width/

Contact Closure Time: 1 millisecond

Maximum Pulse Rate: 100 per second (10 ms)

Engineering Units: Software programmable. User may

program any desired units up to 10

characters. Value is stored in device.

Scale Factor: Software programmable. User may

program any desired scaling factor from ±1.0000E-31 to ±9.9999E+31. The factor is stored in the device.

Offset Value: Software Programmable. User may

program any desired offset value from ±1.0000E-31 to ±9.9999E+31. The factor is stored in the device.

Real Time Recording: May be used with PC to monitor and

record data in real time.

Start Time: Software programmable start time and date, up

to six months in advance.

Memory: 16,383 readings, software configurable memory wrap

Reading Interval: 1 reading every second to 1 every 12 hours

Visual Indicator: LED flashes at selected reading rate.

Power: 3.6V lithium battery included

User Replaceable Battery: 1 year typical

Data Format: Date and time stamped V, mV, µV, user defined

engineering units.

Time Accuracy: ±1 minute/month at 20 °C (RS232 cable not in

use)

Computer Interface: PC serial or RS232C COM (Interface cable

required); 2,400 baud

Software: Windows 95/98/ME/NT/2000/XP based software

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

Dimensions: 1.4" x 2.6" x 0.6" (36mm x 66mm x 16mm)

Weight: 0.9 oz (24 g)
Materials: ABS plastic
Approvals: CE compliant

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

SOFTWARE FEATURES

Multiple Graphs: Simultaneously analyze data from

several units or deployments; easily

switch to a single data series

Real-Time Recording: Collect and display data in real-time

while continuing to log

Graphical Cursor: One click displays readings by time,

value, parameter or sample number

Data Table: Instantly access tabular view for

detailed dates, times, values, and annotations

Scaling Options: Autoscale function fits data to the

screen, or allows user to manually

enter their own values

Formatting Options: Change colors, line styles, plotting

options, show or hide channels in an

instant

Statistics: Calculate averages, min, max, standard

deviation, and mean kinetic temperature with the

touch of a button

Export Data: Export data in a variety of common formats, or

switch to Excel with a single click

Calibration: Fully digital calibration function automatically

stores parameters in device

Logger Configuration: Easy set up and launch of data loggers with

immediate or delayed start, preferred sample

rate, and device ID

Communications: Automatically sets up communications port, or

lets user set configuration

Printing: Automatically print graphical or tabular data

*Specifications are subject to change without notice. Specific warranty and remedy limitations apply. Call 1-603-456-2011 or go to www.madgetech.com for details.

ORDERING INFORMATION

Model Description

PULSE101 Pulse Recorder

IFC110 Software, Manual & 9 pin Computer

Interface Cable

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature Voltage
Humidity Current
Pressure Submersible
pH Intrinsically Safe
Level RF Transmitters
Shock/Vibration Multi-parameter

Pulse/Event



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