

Features

- Multiple transmitter configurations
- Memory wrap around
- Software configurable
- Real-time operation
- Programmable start time
- Miniature size
- User-friendly
- N.I.S.T. traceable

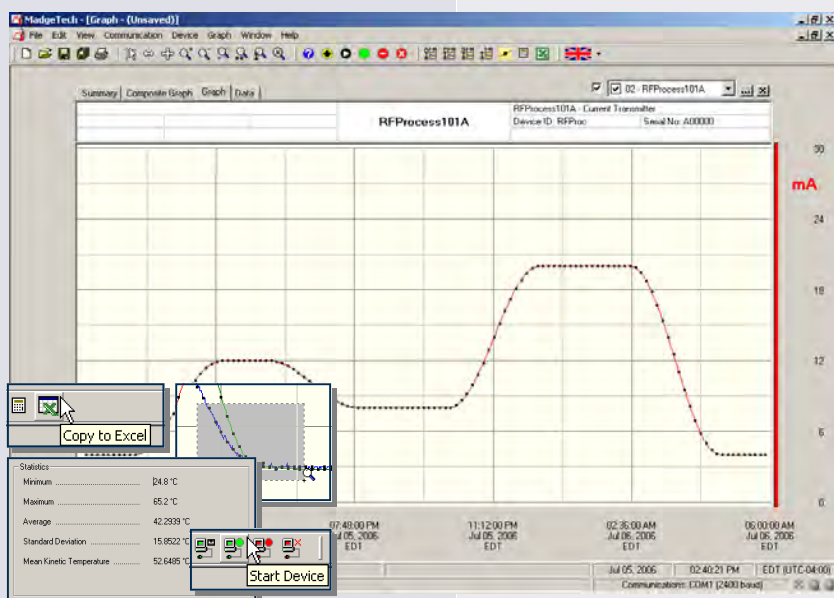
Applications

- 4 to 20 mA recording
- pH recording
- Low level signal monitoring
- Battery studies
- Photovoltaic studies
- Biological sensor monitoring
- Replace costly strip chart recorders
- Environmental studies
- Remote data logging



The RFProcess101A is a battery powered current recorder and wireless transmitter. This is an all-in-one compact, portable, easy to use device that will measure and record up to 8,191 measurements. The RFProcess101A combines the features from the standard product line and adds the convenience of a wireless transmitter. When enabled, the wireless transmitter will transmit readings back to the host computer where the data can be analyzed in real time. These readings are also logged to the device's memory for added data security. The convenient slide switch allows the transmitter to be turned on or off without affecting the operation of the device.

The device can be started, stopped and configured directly from your computer. Its small size allows it to fit almost anywhere. In addition to the wireless communications, the RFProcess101A makes data retrieval quick and easy. Simply plug the device into an empty COM port and our user-friendly software will handle the rest.



Data Recorder Software

displays current data in an easy to use graph.

The Windows®-based software package 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.

RFPROCESS101A SPECIFICATIONS*

Nominal Range:	$\pm 1\text{mA}$	$\pm 25\text{mA}$	$\pm 100\text{mA}$
Measurement Range:	$\pm 1.25\text{mA}$	$\pm 30\text{mA}$	$\pm 120\text{mA}$
+/- Input Voltage Range:	0 to 2.5V	0 to 2.5V	0 to 2.5V
Resolution:	0.05 μA	1 μA	5 μA
Calibrated Accuracy:	$\pm 0.5\%\text{FSR}$	$\pm 0.1\%\text{FSR}$	$\pm 0.1\%\text{FSR}$
Input Impedance:	50 Ω	10 Ω	2 Ω
Overload Protection:	$\pm 20\text{mA}$	$\pm 100\text{mA}$	$\pm 125\text{mA}$

Input Connection: Removable screw terminal
Analog Conversion Time: 133ms
Frequency Rejection: 60Hz
Temperature Coefficient: < 100ppm/°C; < 50ppm/°C typical
Specified Accuracy Range: Nominal range @ 25°C

Engineering Units: User may define units up to 10 characters in length. This value is stored within the device.

Scale Factor: User may program any desired scaling factor from $\pm 1.000\text{E}-31$ to $\pm 9.999\text{E}+31$. The scaling factor is stored within the device.

Memory: 8,191 readings; software configurable memory wrap

Reading Rate: 1 reading every 30 seconds to 1 every 12 hours

Calibration: Digital calibration through software

Data Format: Date and time stamped A, mA, μA , engineering units specified through software

Time Accuracy: ± 1 minute/month (at 20 to 30°C)

Computer Interface: PC serial or RS232C COM (interface cable required); 57,600 baud

RF Carrier Frequency: $418 \pm 0.075\text{MHz}$

RF Baud Rate: 4,800 baud

Output Power: <0dBm typical (<1mW)

Receiver Sensitivity (RFC101A): -90dBm typical

Range: Line-of-sight: up to 120 ft., Urban: up to 40 ft.

Approvals: US (FCC), CA (IC)

Battery Type: 3.6V lithium battery included; **user replaceable**

Battery Life: 1 year typical (1 min reading rate @ 25 °C)

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

Operating Environment: -30 °C to +70 °C, 0 to 95 %RH non-condensing

Dimensions: 1.7" x 2.7" x 0.8" (42mm x 68mm x 20mm)

Weight: 2 oz (60 g)

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

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 quickly

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: Automatically calculate and store calibration parameters

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 select configuration

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

ORDERING INFORMATION

Model	Description
RFPROCESS101A-1	$\pm 1\text{mA}$ Current Recorder and Wireless Transmitter
RFPROCESS101A-25	$\pm 25\text{mA}$ Current Recorder and Wireless Transmitter
RFPROCESS101A-100	$\pm 100\text{mA}$ Current Recorder and Wireless Transmitter
RFC101A	Software, manual, wireless receiver, power supply and RS232 interface cable
RFC200A	Software, manual, wireless receiver, power supply and USB interface cable
NIST	N.I.S.T. Calibration Certificate
LTC-7PN	Replacement battery for RFProcess101A

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Pulse/Event/State
Humidity	Low Level Current
Pressure	Low Level Voltage
pH	RF Transmitters
Level	Intrinsically Safe
Shock	Spectral Vibration
LCD Display	

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