RFPHTEMP101A

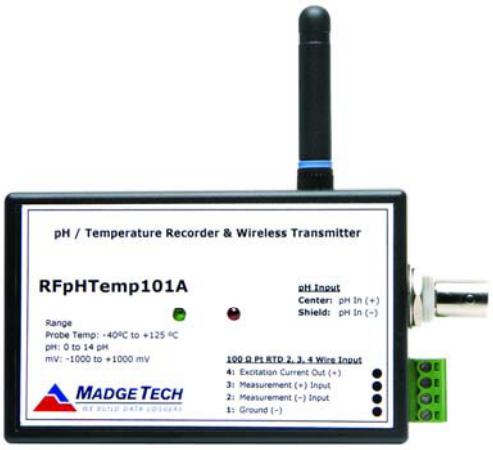
PH & TEMPERATURE DATA LOGGE R & WIRELESS TRANSMITTER

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

- Surface and ground water quality monitoring
- Environmental and wetlands
- Industrial influent/effluent
- Water districts and municipal
- Process water quality
- Recreation and park management
- Pulp and paper industry
- Wastewater monitoring



The RFpHTemp101A is a battery powered pH and temperature recorder with a wireless transmitter. This is an all-in-one compact, portable, easy to use device that will measure and record up to 13,107 measurements per channel. The RFpHTemp101A 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 conv enient slide switch allows the transmitter to be turned on or off without affecting the operation of the device.

The device can be started, stoppe d and configured directly from your computer. Its small size allows it to fit almost anywhere. In addition to the wireless communications, the RFpHTemp101A makes data retrieval quick and easy. Simply plug the device into an empty COM port and our user-friendly software will handle the rest.

MadgeTech Data Recorder Software displays pH and temperature 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.

Click MadgeTech Software for more information or to download the software.

RFPHTemp101A SPECIFICATIONS *

Temperature**

Measurement Range:	-40 to +125ºC (0 to +500 Ω)
Resolution:	0.01ºC (0.001 Ω)
Calibrated Accuracy:	±0.1ºC @25ºC ambient (±0.015 Ω)
Input Connection:	Removable screw terminal; 2,3 or 4-wire interface

pH

Measurement Range:	0.00 to 14.00pH (-1000 to +1000mV)
Resolution:	0.01pH (0.1mV)
Calibrated Accuracy:	±0.1pH (±1mV)
Input Connection:	Female BNC jack
Input Resistance:	$10^{12}\Omega$ typical

Start Time:	Software programmable start time and date, up to six months in advance
Real Time Recording:	May be used with PC to monitor and record data in real time
Memory:	13,107 readings per channel; 26,214 total readings; software configurable memory wrap
Reading Rate:	1 reading every 30 seconds to 1 every 12 hours

**Temperature specifications based on ideal 100 Ω Pt RTD compliant with IEC 751 (1983) and ITS-90, 5000 Ω FSR

***For use in harsh environments, this device must be well protected from weather, steam and harsh chemicals

Calibration:	Digital calibration through software
Data Format:	Date and time stamped ºC, ºF, K, ºR, Ω; pH, V, mV, engineering units specified through software
Time Accuracy:	±1 minute/month (20 to 30 ºC)
Computer Interface:	PC serial or RS232 (interface cable required); 57,600 baud
RF Carrier Frequency:	418 ± 0.075MHz
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:	9V lithium or alkaline battery included; user replaceable
Battery Life:	1 year typical (1 min reading rate @ 25 ºC)
Software:	Windows 95/98/ME/NT/2000/XP/Vista based software
Operating Environment:	-5 to +50 ºC, 5 to 95%RH (non-condensing)
Dimensions:	4.5" x 2.4" x 1.0" + 2.0" antenna (114mm x 61mm x 25mm + 51mm antenna)
Weight:	4 oz (120 g)
Material:	ABS plastic

BATTERY WARNING: DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN. DO NOT DISPOSE OF IN FIRE, RECHARGE, PUT IN BACKWARDS, DISASSEMBLE, OR MIX WITH OTHER BATTERY TYPES. MAY EXPLODE, FLAME, OR LEAK AND CAUSE PERSONAL INJURY.

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.
CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

Model	Description	Price (U.S.)
RFPHTEMP101A	pH and Temperature Recorder and Wireless Transmitter	$449.00
RFC101A	Software, manual, wireless receiver, power supply and RS232 interface cable	$199.00
RFC200A	Software, manual, wireless receiver, power supply and USB interface cable	$249.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
U9VI-J	Replacement battery for RFpHTemp101A	$15.00

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	

MADGETECH
WE BUILD DATA LOGGERS