PHTEMP101
PH & TEMPERATURE DATA LOGGER

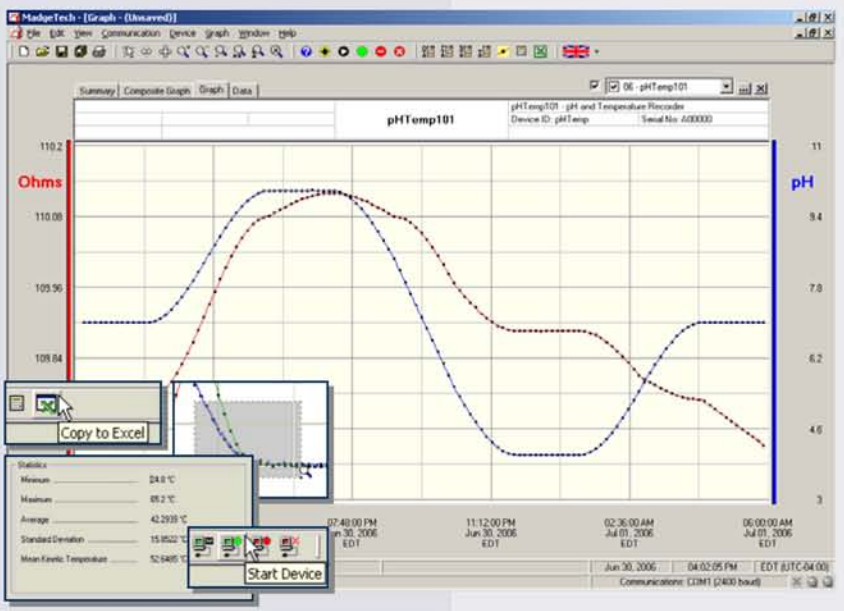
Features

- Low cost
- Miniature size
- User-friendly
- Automatic temperature compensation
- Programmable start time
- Real-time operation
- Programmable engineering units
- N.I.S.T. traceable

Applications

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

The pHTemp101 is a miniature, battery powered, stand alone pH and temperature recorder. 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 pHTemp101 will directly connect to many commonly used pH electrodes, in addition, the pHTemp101 will also directly connect to many ORP electrodes. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The PHTemp101 makes data retrieval quick and easy. Simply plug it into an empty com port and our user-friendly software does the rest.



DATA LOGGER 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.

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PHTEMP101 SPECIFICATIONS*

Temperature**

Measurement Range:	-200 to +850°C (0 to +500Ω)
Resolution:	0.01°C (0.001Ω)
Calibrated Accuracy:	±0.1°C @ 25°C ambient (±0.015Ω)***
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} Ω typical
Start Modes:	Software programmable immediate start or delay start up to six months in advance
Real Time Recording:	May be used with PC to monitor and record data in real time

**Temperature specifications based on ideal 100 Ω Pt RTD compliant with IEC 751 (1983) and ITS-90, 5000 Ω FSR(accuracy based on 36" lead wire RTD with 4 wire configuration)

***Calibrated accuracies based on standard MadgeTech calibrations for 0 to 200Ω range.

****100 Ohm, 2 or 4 wire RTD probes are recommended for the most accurate performance. Most 100 Ohm, 3 wire RTD probes will work, but MadgeTech cannot guarantee the accuracy. To determine whether or not the 3-wire RTD probe will work, the resistance between the two same colored wires should be less than 1 Ohm. *(Note: Please contact the manufacturer of the RTD probe for questions on the resistance)*

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

Memory:	13,107 readings per channel; 26,214 total readings
Reading Rate:	1 reading every 2 seconds to 1 every 12 hours
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Battery Type:	9V lithium or alkaline battery included; **user replaceable**
Battery Life:	1 year typical with lithium battery at 25°C
Data Format:	Date and time stamped °C, °F, K, °R, Ω; pH, V, mV, engineering units specified through software
Time Accuracy:	±1 minute/month (at 25 °C; RS232 cable not in use)
Computer Interface:	PC serial or USB (interface cable required); 2,400 baud
Software:	XP SP3/VIsta/Windows 7
Operating Environment:	-5 to +50°C, 0 to 95%RH (non-condensing)
Dimensions:	4.5" x 2.4" x 1.0" x (115mm x 61mm x 26mm)
Weight:	4 oz (120 g)

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
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 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
Printing:	Automatically print graphical or tabular data

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

ORDERING INFORMATION

Model	Description
PHTEMP101	pH and Temperature Recorder
IFC200	Software, manual and USB interface cable
NIST	N.I.S.T. Calibration Certificate

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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