

PRHTemp101A Pressure, Humidity and Temperature Data Logger

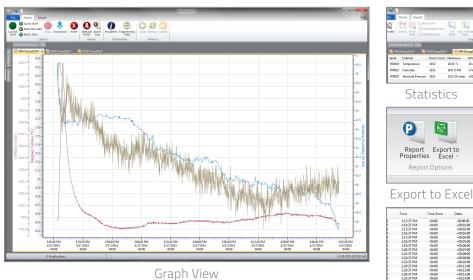
The PRHTemp101A is a pressure, relative humidity and temperature data logger, specifically designed to be compact and portable for use in a variety of applications such as museum and archive preservation, shipping and transportation, warehouse monitoring, HVAC and more.

The PRHTemp101A is MadgeTech's latest addition to the 101A series of low cost, stateof-the-art data loggers. MadgeTech has taken the lead in offering the most advanced, affordable, battery powered data loggers in the world today.

The PRHTemp101A offers a 10 year battery life, 1 second reading rate, multiple start/stop functions, ultra-high speed download capability, optional memory wrap, battery life indicator, optional password protection, programmable high-low alarms and more.

Using the MadgeTech Software, starting, stopping and downloading from the PRHTemp101A is simple and easy for users. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, °R, K, for the temperature channel, %RH, mg/mL, Dew Point, for the humidity channel and mbar, PSI, inHg, mmHg, atm, Torr, Pa, m, kPa, MPa for the pressure channel. The data can also be automatically exported to Excel® for further calculations.

MadgeTech 4 Software Features



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



Features

- 10 Year Battery Life
- Multiple Start/Stop Function
- Ultra High Speed Download
- Memory Wrap
- Battery Life Indicator
- Optional Password Protection
- Programmable High and Low Alarms
- CE Compliant
- Field Upgradeable

Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment
- Compact and Portable

Applications

- Museum, Archive and Gallery Artwork Preservation
- Warehouse Monitoring
- Measuring Barometric Pressure in High-Rise Buildings (Elevators)
- Shipping and Transportation
- HVAC
- Clean Rooms
- Clinical Laboratories
- Altitude Validation and Studies

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	1:15:37 PM	-04:00	+00:02:00
	1:16:37 PM	-04:00	+00:03:00
	1:17:37 PM	-04:00	+00:04:00
	1:18:37 PM	-04:00	+00:05:00
	1:19:37 PM	-04:00	+00:06:00
	1:20:37 PM	-04:00	+00:07:00
	1:21:37 PM	-04:00	+00:08:00
	1:22:37 PM	-04:00	+00:09:00
	1:23:37 PM	-04:00	+00:10:00
	1:24:37 PM	-04:00	+00:11:00
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	1:27:37 PM	-04:00	+00:14:00
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Any device	 Connected
	At a time
	Connected
hen conditions are	met, do the following:

Automation

Time Time Zone Delta

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PRHTemp101A

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply.

PRESSURE	
Pressure Sensor	Piezoresistive
Pressure Range	250 mbar to 1300 mbar
Pressure Resolution	0.02 mbar
Calibrated Accuracy	±10 mbar (0 °C to 55 °C)

НИМІДІТҮ		
Humidity Sensor	Capacitive Polymer	
Humidity Range	0 %RH to 95 %RH	
Humidity Resolution	0.1 %RH	
Calibrated Accuracy	±3.0 %RH	
Specified Accuracy Range	25 %RH to 75 %RH +20 °C to +40 °C Hysteresis Error 1 % typical, 3 % Maximum	

TEMPERATURE		
Temperature Sensor	RTD	
Temperature Range	-40 °C to +80 °C (-40 °F to +176 °F)	
Temperature Resolution	0.01 °C (0.02 °F)	
Calibrated Accuracy		

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	523,776 readings 261,888 readings (manual or trigger 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 (<i>Pressure channel only</i>)	
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 at a 15 minute reading rate	
Data Format	Date and time stamped °C, °F, °R, K, %RH, mg/mL, Dew Point, mbar, PSI, inHg, mmHg, atm, Torr, Pa, kPa, m, MPa units specified through software	
Time Accuracy	±1 minute/month at 25 °C (77 °F)	
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 °C to +80 °C (-40 °F to +176 °F) 0 %RH to 95 %RH non-condensing, 0.002 PSIA to 100 PSIA	
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.

PRHTemp101A PN 901052-00 Pressure, Humidity and Temperature Data Logger IFC200 PN 900298-00 USB interface cable LTC-7PN PN 900352-00 Replacement battery for the PRHTemp101A



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Ordering Information



Telephone +44(0)1929 459 459 Email sales@WPLS.co.uk