

RELATIVE HUMIDITY/TEMPERATURE

MICRORHTEMP Series are the world's smallest, battery powered, stand alone humidity and temperature recorders. It's ultra-miniature size allows the user the ability to use the device in the smallest spaces.

MICRORHTEMP SERIES SPECIFICATIONS

Temperature Sensor: Semiconductor
Temperature Range: -20 °C to +70 °C
Temperature Resolution: 0.1 °C
Calibrated Accuracy: ±0.5 °C
Accuracy Range: 0 to +50 °C
Humidity Sensor: Semiconductor
Humidity Range: 0 to 100% RH
Humidity Resolution: 0.5% RH ±3%RH
 (±2% RH typical at 25 °C)
Accuracy Range: 10 to 80% RH, +10 to +40°C
Real Time Recording: When used with a PC.
Calibrated Accuracy: 90% change in 60 sec. in slow moving air.
Accuracy Range: 10 to 80% RH, +10 to +40°C



MICRORHTEMP FEATURES

Memory 21,845
Form Factor AA
Battery Factor 3
Battery Life 4 months
Weight 1 oz (30 g)



MICRORHTEMP-EB FEATURES

Memory 21,845
Form Factor AA-1
Battery Factor 5
Battery Life 10 months
Weight 2 oz (60 g)

ORDERING INFORMATION

Item No.	Name	Description
5399-0202	MicroRHTEMP	Miniature RH & Temp. Recorder

ORDERING INFORMATION

Item No.	Name	Description
5399-0208	MicroRHTEMP-EB	Miniature RH & Temp. Recorder

pH/TEMPERATURE

The pHTEMP101 shares all the characteristics of our other Compact data loggers. It will directly connect to many commonly used pH electrodes, and ORP electrodes. Sensor and probe not included.

pHTEMP101 SPECIFICATIONS

Temperature
Measurement Range: -200 to +850 °C (0 to +5000 ohms)
Resolution: 0.01°C (0.001 ohms)
Calibrated Accuracy: ±0.1°C @25 °C ambient
 (±0.015 ohms)
Input Connection: Removable screw terminal; 2, 3 or 4-wire interface for 100 ohm Pt

RTD

Reading Interval: 1 every 2 sec. to 1 every 12 hrs.
Calibration: Digital, through software

pH

Measurement Range: 0.00 to 14.00 pH
 (-1000 to +1000 mV)
Resolution: 0.01 pH (0.1 mV)
Calibrated Accuracy: ±0.1 pH (±1 mV)
Input Connection: Female BNC jack
Input Resistance: 10¹² ohms (typical)
Data Format: Date and time stamped °C, °F, °K, °R, ohms, pH, V, mV, engr. units specified through software
Time Accuracy: ±1 minute/month (at 25 °C; RS232 cable not in use)
Operating Environment: -5 to +50 °C, 5 to 95%RH (non-condensing)



pHTEMP101 FEATURES

Memory 13,107 per channel
Form Factor C-1
Battery Factor 2
Battery Life 1 yr.
Weight 4 oz (120 g)

ORDERING INFORMATION

Item No.	Name	Description
5399-0401	pHTEMP101	pH and Temperature Recorder

VOLT

GENERAL VOLT/CURRENT SPECIFICATIONS

Input Connection: Removable screw terminals.

Model:	100 mV (Diff)	2.5V	15V	30V
Voltage Range:	±100 mVDC	-0.25 to +2.75	-1.0 to +16.0	-2.0 to +32.0
Resolution:	5 µVDC	0.1 mV	0.5 mV	1.0 mV
Calibrated Accuracy:	±0.01% FS	±0.01 %FS	±0.10 % FS	±0.10 %FS
Input Impedance:	>1 Kohm*	>1 Kohm	>10 Kohm	>10 Kohm
Overload Protection:	5 VDC	±5 V	±30 V	±48 V
Temperature Coefficient:	< 25 ppm/°C	< 25 ppm/°C	< 250 ppm/°C	< 250 ppm/°C

User Analog Conversion Time: 133 ms

Frequency Rejection: 60 Hz

Temperature Coefficient: < 25 ppm/°C; <10ppm/°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 in the device.

*1 Mohm during acquisition.

Our Volt Recorders are all miniature, battery-powered, stand alone devices. These all-in-one compact, easy to use devices will measure and record up to 32,767 measurements. The storage is non-volatile, solid state. Each device may be started/stopped from a PC. They all interface with our Windows-compatible software.



VOLT101 FEATURES

Memory 32,767
Form Factor A-1
Battery Factor 1
Battery Life 1 yr.
Weight 1 oz (30 g)
Terminal 2 except 100 Mv is 3 wire

ORDERING INFORMATION

Item No.	Name	Description
5399-0507	VOLT101-100mV	±100 mV Differential Voltage
5399-0509	VOLT101-2.5	2.5 Vdc Voltage Recorder
5399-0510	VOLT101-15	15 Vdc Voltage Recorder
5399-0511	VOLT101-30	30 Vdc Voltage Recorder



VOLT110 FEATURES

Memory 32,767
Form Factor A-3
Battery Factor 1
Battery Life 10 yr.
Weight 2 oz (60 g)
Terminals 2 except 100 mV (3-wire)

ORDERING INFORMATION

Item No.	Name	Description
5399-0508	VOLT110-100mV	±100 mV Differential Voltage
5399-0519	VOLT110-2.5	2.5 Vdc Voltage Recorder
5399-0520	VOLT110-15	15 Vdc Voltage Recorder
5399-0521	VOLT110-30	30 Vdc Voltage Recorder



QUADVOLT FEATURES

Memory 32,767
Form Factor B
Battery Factor 2
Battery Life 1 yr.
Weight 13 oz (370 g)

ORDERING INFORMATION

Item No.	Name	Description
5399-0515	QUADVOLT-2.5	4 channel 2.5Vdc Voltage Recorder
5399-0503	QUADVOLT-15	4 channel 15 Vdc Voltage Recorder
5399-0516	QUADVOLT-30	4 channel 30 Vdc Voltage Recorder

