



## TRH-1000

### Two-Channel Temperature & Relative Humidity Data Logger

The TRH-1000 is a low-cost, easy-to-use temperature and relative humidity data logger. With its precision calibrated internal temperature and relative humidity sensor, simply place the logger in the field and leave it to record. Once the desired information has been recorded, plug the logger into your computer and begin downloading and viewing the logged data with ACR's simple TrendReader® Express software or feature filled TrendReader® 2 software. The TRH-1000 is the ideal data logger for quick and accurate temperature and humidity measurements in a variety of applications.

#### APPLICATIONS

Building comfort monitoring, food process verification, pharmaceutical and laboratory storage monitoring, transportation monitoring, energy management, HVAC system testing and balancing, etc.

#### GENERAL SPECIFICATIONS

Size:	25.4mm x 58.4mm x 81.3mm (1" x 2.3" x 3.2")
Weight:	74 g (2.6 oz)
Case Material:	Cycloyl® (GE Plastics) C120 ABS + Polycarbonate
Battery:	3.6 volt Lithium, 1 Amp-Hour
Resolution:	8-bit (1 part in 256)
Mounting:	Magnetic backing or hidden locking eyelet
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	First-in First-out, Stop When Full, Delay Start, or Spot & Average
Operating Limits:	-40°C to 70°C (-40°F to 185°F)
PC Requirements:	Windows PC with at least one free USB or serial port (depending on interface)
Software Requirements:	TrendReader® Express (Compatible with Windows 2000 SP4, XP SP1 and Vista 32 bit) or TrendReader® 2 (Compatible with Windows XP SP3, Windows Vista SP2 & Windows 7 (32 bit & 64 bit))
Memory Size:	64 KB (capable of storing up to 32,676 readings per channel)
Sampling Rates:	User selectable rates from 8 seconds to 34 minutes
Number of Channels:	Two (one for the internal temperature sensor and one for the internal RH sensor)



#### SENSOR SPECIFICATIONS

Temperature Sensor Type:	CMOSens® (by Sensirion)
Range:	-40°C to 70°C (-40°F to 158°F)
Accuracy:	±0.6°C @ 25°C, ±2°C from -40°C to 70°C (±1°F @ 77°F, ±3.6°F from -40°F to 158°F)
Resolution:	8-bit (1 part in 256)
Relative Humidity Sensor Type:	CMOSens® (by Sensirion)
Range:	0 to 100% RH
Accuracy:	±4% RH between 20 to 80% RH, otherwise ±5%
Calibration:	Factory calibration verification and NIST certificates are available upon special request.

#### ORDERING INFORMATION

Item	Cat#:
TRH-1000-SP Starter Pack*	01-0194
TRH-1000 (Data Logger Only)	01-0198

\*Starter Pack includes:  
 One TRH-1000 Data Logger  
 TrendReader® Express Software CD  
 Serial to USB adapter cable  
 Quick Start Guide

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[www.acrsystems.com](http://www.acrsystems.com)

ISO 9001 Certified

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