



Temperature/Relative Humidity (RH) Data Logger

Part # U14-001

Important Info:

HOBO data loggers require HOBOWare software (USB interface cable included w/CD purchase) and a communications device. See compatible items below.

Overview

HOBO U14 data logger menampilkan, merekam, dan memberikan pemberitahuan alarm tentang kondisi suhu dan kelembaban. Menerima pemberitahuan alarm dari luar dengan Auto Dialer opsional atau Remote Audible Alarm. Alat ini sangat cocok digunakan di lingkungan manufaktur, pemrosesan, dan penyimpanan dimana pemantauan dan dokumentasi yang dapat diandalkan mengenai kondisi relatif suhu dan kelembaban relatif yang kritis.

Highlighted Features

- Waktu download data USB lebih cepat
- Resolusi sensor suhu / resolusi debu yang lebih baik
- Tampilan Real-time Temperature dan Relative Humidity
- Tampilan dan output alarm memastikan laporan tepat waktu mengenai kondisi out-of-range
- Dua model yang bisa dipilih - Suhu Internal / Kelembaban Relatif Suhu eksternal atau Temperatur / Kelembaban Relatif
- Opsional Remote Alarm dan Autodialer
- Kasus pelindung opsional untuk lingkungan basah atau kondensasi
- Kompatibel dengan software HOBOWare dan HOBOWare Pro untuk setup logger, grafik dan analisis

Spesifikasi

Environmental

Operating temperature range -20°C to +50°C, (-4°F to +122°F) , 0 to 100% RH non-condensing
Operating relative humidity range 0 to 95%, non-condensing, noncorrosive environment
Logger Capabilities

Capacity:

Temp and RH: 21,500 measurements
Temp Only: 43,000 measurements
Software-selectable sampling intervals: 1 second up to 18 hours, recording times up to 1 year
Programmable start time/date
Recording modes: Stop when full
Launch Modes: Immediate, Delayed
Nonvolatile EEPROM memory retains data even if batteries fail

LCD

Size: 33 x 50.8 mm (1.3 x 2 inches)
Displays temperature and relative humidity simultaneously
Displays °C or °F (selectable within host software)
Displays memory remaining and battery level
Displays flashing ALERT for out-of-limits conditions (selectable within host software) and stops flashing on offload or return to normal range.

Alarms

High and low set points for both temperature and relative humidity
Selectable delays for each set point
Alert conditions reset on offload or return to normal range.
Selectable Contact Relay: Normally Closed or Normally Open
Contact rating: 48VDC, 1A max
Contact resistance: less than 1 Ohm
Wire size range is 22AWG to 14AWG
0% Low Battery Range Communications
Offloads data to PC or U-Shuttle via USB cable
Readout full logger (64K) in less than 30 seconds

Timekeeping

Time accuracy: ±1 minute per month at 20°C (68°F).

Power

3 AAA Alkaline batteries, user-replaceable
Size/Weight
125 x 92 x 31 mm (4.9 x 3.6 x 1.2 inches)
170 g (6.0 oz) with batteries
Internal 12-Bit Temperature Sensor

Measurement range: -20°C to 50°C (-4°F to 122°F)
Accuracy: ±0.21°C from 0° to 50°C (±0.38°F from 32° to 122°F); ±0.13°C (0.24°F) typical
Resolution: 0.02°C @ 25°C (0.04°F @ 77°F)
Response time: 15 minutes (to 90% in airflow of 1 m/sec)
Temperature Accuracy Drift: Negligible
Internal 12-Bit Relative Humidity Sensor

User replaceable

Measurement range: 0-100% RH, -20 to 50°C (-4 to 122°F)
Accuracy: ±2.5% from 10% to 90% RH typical to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical
Resolution: 0.05% RH
Response time to 90%: 2 minutes (to 90% in airflow of 1 m/sec)
Accuracy Drift: <1% per year typical
Hysteresis: 1% typical