

SEKONIC

Microprocessor-Based Hygro-Thermograph Model ST-50

B0031

**Long-term continuous recording,
Wide range measurement and High reliability**



Just handy of Monitoring both Temperature and Humidity

CE,UL Approved

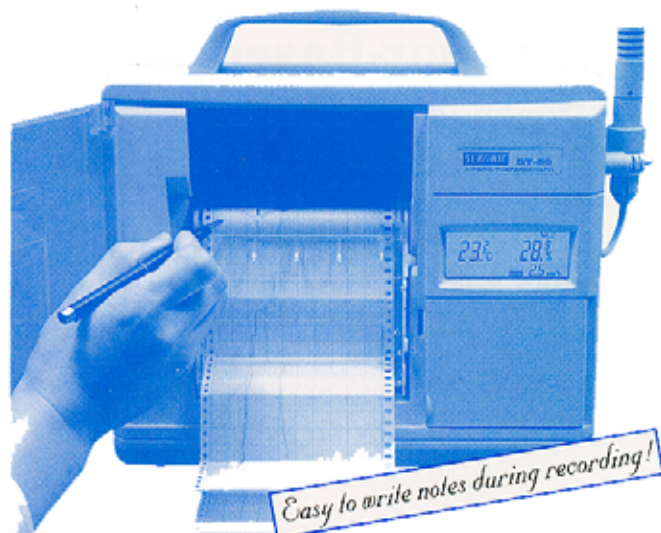
Specifications

- 1 Measurement Methods**
 Temperature : Semiconductor Sensor
 Humidity : High Molecular Electrostatic Capacity Sensor
- 2 Measurement Ranges**
 Temperature : -20°C~50°C / 0°F~120°F
 -20°C~80°C / 0°F~170°F (with Sensot Extension Cable)
 Humidity : 20~90%RH (No Condensation)
 0~100%RH (with Sensor Extension Cable, No Condensation)
- 3 Display (LCD)**
 Temperature : Resolution 0.1°C/0.1°F, 0.1%RH
 -20°C~80°C / 0°F~170°F
 Humidity : 0~100%RH
 Others : Dew point (-80°C~80°C/-112°F~170°F)
 Absolute Humidity (0~290g/m³)
 Battery Checker, Alarm, Chart Speed, Set-Up Mode etc
- 4 Recording**
 Chart Paper : Z-Fold Type, 12m/39.37ft. (L), 113mm/4.44in. (W)
 Working Width : 100mm (3.93in.) (for both Temperature and Humidity)
 Feeding : Sprocket
 Feeding Accuracy : ±3mm/0.12in. (at 12m/39.37ft. Long Recording)

Chart Speed	Recording Period (Reference only)	Battery Service Life (Standard Mode)	Battery Service Life (Energy Saving Mode)
2.5 mm/Hr.	6 months	3 months	6 months
5.0 mm/Hr.	3 months	3 months	3 months
10.0 mm/Hr.	1.5 months	1.5 months	1.5 months
20.0 mm/Hr.	3/4 months	20 days	20 days

※ 2.5 mm (abt.0.10in.), 5.0mm (abt.0.20in.), 10.0mm (abt.0.39in.), 20.0mm (abt.0.79in.)

- 5 Accuracy**
 Temperature : ±1.0°C/±1.8°F at 0°C~50°C/32°F~122°F
 Humidity : ±3%RH (at 25°C/77°F)
 ※ Accuracy guarantee range on humidity is 10~90%RH
- 6 Calibration**
 Temperature : 1 point Humidity : 1 point or 2
- 7 Alarms**
 : Temperature and humidity upper and lower limits can be set.
- 8 Recording Ranges**
 Temp. : User-Selectable among ① ② and ③ with switch
 ① -20°C~80°C/0°F~170°F
 ② 0°C~50°C/30°F~130°F
 ③ ±10°C, ±25°C, ±25°F or 50°F from user-desired central temperature of charts.
 Humidity : ① 0~100%RH
 ② ±10%RH or ±25%RH from user-desired central humidity of charts.
- 9 Environmental Conditions**
 (Ambient Temperature/Humidity)
 : -20°C~50°C/0°F~120°F/20~90%RH (No Condensation)
- 10 Power Supply**
 : Battery (LR20, 1.5V×4)
 AC Adaptor (AC120V/60Hz, AC230V/50Hz)
- 11 Dimensions /Weight**
 : 300 (W)×245 (H)×105 (D) mm/2.1kg
 11.8" (W)×9.6" (H)×4.1" (D)/4.6lbs.
 (without the Batteries)
- 12 Other features**
 : Convenient front panel programming.
 Desktop or wall mount.
 3mm (0.12in.) marking on temperature recording.
 Pen position adjustment with switch.
 Perfect traceability.
- 13 Standard Accessories**
 : 4×Batteries (LR20, 1.5V), 1×Chart Paper
 1 each×Fiber Tip Pen (for Temperature and Humidity),
 1×Operation Manual
- 14 Option Accessories**
 : Alarm Relay Unit for output, Sensor Extension Cable
 5m (16.40ft.), 20m (65.62ft.) and 50m (164.04ft.),
 Dust-Proof Cover, Splash-Proof Cover,
 Calibration Set (Saturated Salt Method)



Features

- ✓ Capability of 6 months continuous recording
- ✓ Wide temperature range -20°C~80°C (0°F~170°F)
- ✓ Remote monitoring as far as 50m away with an optional extension cable
- ✓ Electronic sensors allow accurate measuring for a long time
- ✓ Recording capability of Standard full span, 0°C~50°C (30°F~130°F) and Enlarged range as you desire

Applications

Wherever temperature and humidity control is needed, there are applications.

R&D	Pharmaceutical Industry
Production Control	Semii-conductor Industry
Quality Control	Food processing Industry
Building and Facility administration	Chemical Industry
Field Monitoring	Printing, Paper mill, Film production
Laboratories and clean rooms	Precision machinery
Storage Control	Electric appliances
Freshness Monitoring	Electronic parts/material
	Medical care
	Museum, Fine Arts gallery
	Air conditioning engineering,
	Civil engineering, Building construction
	Agriculture, Fishery, Live stock
	Warehousing and more

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SEKONIC CORPORATION

7-24-14, OIZUMI-GAKUEN-CHO, NERIMA-KU, TOKYO 178-8686 JAPAN
 TEL:+81-3-3978-2335 FAX:+81-3-3978-5229
 e-mail:recorder@dream.ocn.ne.jp



CBC (EUROPE) Ltd.

Ufficio di Milano
 20054 Nova Milanese (MI) Italia, Via E.Majorana, 2
 Tel. +39-0362-365079 www.cbc-europe.it