



Specifications

Temperature Ranges	User selectable: -20°F to 120°F, 40°F to 110°F, -20°C to 50°C, 5°C to 40°C
Temperature Accuracy	±1.8°F (±1.0°C)
Humidity Range	0 to 95% (non-condensing)
Humidity Accuracy	±2% between 0 and 60% RH, ±3% between 61 and 95% RH (at 73°F, 23°C)
Display Resolution	1°F (1°C), 1% RH
Chart Size	8" diameter (203 mm)
Temperature Sensor	Thermistor
Humidity Sensor	Thin film capacitor
Recording Time	User-selectable, 1-, 7-, and 31-day
Power	120 VAC adapter with four D batteries for backup power
Body Dimensions	10.5" x 13.2" x 2.8" (267 x 335 x 71 mm)
Probe Dimensions	0.92" dia. x 5.9" long (23.4 x 150 mm)
Weight	Approx. 7 lb. (3.2 kg)
Mounting	Portable or wall mountable
Calibration	1-point NIST-traceable calibration included
Alarms	Audio/visual high and low alarms
Response Time	Temperature: 30 seconds for a 63% step change at 1 cfm, RH: 20 seconds for a 63% step change at 1 cfm
Operating Range (Body)	10% RH to 90% RH, 32°F to 122°F (0°C to 50°C)

Lab Humidity/Temp Recorder

Model 5109

Document lab conditions for quality audits

Note current RH and temperature for your cal certificates

Calibrate the detachable probe in Hart's 5110 RH calibrator

Need an excellent eight-inch chart recorder for collecting data on lab humidity and temperature? The Model 5109 Chart Recorder from Dickson gets the job done for you at a reasonable price.

The Model 5109 records humidity and temperature, or temperature and dew point. It's a microprocessor-based unit with a battery backup so you don't lose important data if the power fails. Read the temperature and humidity directly from the digital display without having to look at the circular chart.

Change the readout from °F to °C, set high/low alarms, and change the recording times to 1-, 7- or 31-day intervals from the front panel. The humidity sensor is easily recalibrated with a Model 5110 Humidity Calibrator (shown on page 145).

Each recorder comes with two pens, an AC adapter, and a box of charts containing the range -20°F to 120°F for seven-day intervals. There's an optional

10-foot extension cable for locating the sensor away from the recorder or to assist in calibrating the sensor. Longer cables, up to 100 feet, are also available.

The Model 5109 is accurate to ±1.0°C and ±2% between 0 and 60% RH and 3% between 61 and 95% RH.

Ordering Information

5109	RH/Temp Recorder
5109-220	RH/Temp Recorder, 220 V
5311-001	10 ft. Probe Cable
5311-002	Pens, pkg. of 6
5311-003	AC Adapter, 220 V
5311-005	50 ft. Probe Cable
5311-006	100 ft. Probe Cable
5311-XXXX	Charts <i>See table at right.</i>
1980	Calibration by Hart, see page 158

Replace XXXX in Model 5311-XXXX with code from this table (60 charts per package):

Temperature Range	24-Hour Chart	7-Day Chart	31-Day Chart
-20 to 120°F	C415	C417	C480
40 to 110°F	C476	C477	C481
-20 to 50°C	C472	C473	C482
5 to 40°C	C478	C479	C483