



## 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 146).

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 exten-

sion 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.

## Ordering Information

5109	RH/Temp Recorder (includes certificate of NIST-traceable calibration and one set of 5311-C417 charts)
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 See table at right.
1980	Calibration by Hart, see page 156

## Specifications

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

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

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°F to 120°F	C415	C417	C480
40°F to 110°F	C476	C477	C481
-20°C to 50°C	C472	C473	C482
5°C to 40°C	C478	C479	C483



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