The new Model CT485B completely self-contained temperature/relative humidity recorder is microprocessor based to accurately measure, indicate and record temperature and relative humidity.

This rugged unit comes standard with alarms. They contain a single, integral relay contact which closes in response to an alarm condition. Simultaneous high and low alarm points for temperature and relative humidity are user selectable. When the current conditions exceed any of the preset values, the 2 Amp relay contact closes and an audible alarm sounds.

Flipping open a hinged front panel door permits access to the power switch and controlling functions of the recorder. The door comes with a locking mechanism. The user may select 1, 7 or 32 day operation, program the instrument to record in °C or °F, and access alarm and calibration controls or max/min functions.

A separate 3-position switch next to the digital display selects a °C, °F or %RH readout. The chart drive is stepper controlled for precision, and a unique magnetic retaining knob eliminates the possibility of paper tear.

Calibration of alarm models is digital, and a user may make calibration adjustments in the field using the convenient panel pushbuttons. An optional calibration lockout cover prevents unauthorized changing of calibration codes. A stabilizing arm provides added stability for benchtop use. The arm conveniently rotates under the unit for wall mounting. Recessed rear mounting slots and a wall template enable easy wall mounting. A decorative cover for the stabilizing arm is supplied for wall mount use. A standard 110 Vac power adaptor is supplied for continuous long-term operation, along with four D-cell batteries for backup power or field use. Each unit includes 6 feet of cable for remotely mounting the sensor. A sensor holder clip is provided.

Units come standard with two chart light bulbs. When using the ac power adaptor, these bulbs provide easy viewing of the chart in dimly lit conditions. A switch is provided to allow the chart lights to be turned on or off.
Specifications
Measurement Inputs: Temperature and humidity, with plug-in external sensor, removable for remote location, 6’ extension cable included; 0.02 to 1.20 Vdc signal with voltage input adaptor

Temperature
Range: -17 to 49°C (2 to 120°F)
Accuracy: ±1°C
Sensor: Solid state
Response Time: 5 minutes for 63% step change
Display Resolution: 1°C/1°F

Humidity
Range: 2 to 98% RH
Accuracy: ±3% @25°C, between 20 and 90% of range (±5% below 20% and above 90% @25°C)
Sensor: resistive polymer. Not recommended for use in corrosive air environments
Response Time: 5 minutes for a 30 to 80% step change
Display Resolution: 1% RH
2½ digit LCD, 0.5" high; low battery
Display Modes: Front panel switchable between °C, °F and %RH for continuous digital display; max/min storage for both temperature and humidity or flashing to indicate alarm condition

Electronics
Type: Microprocessor-controlled and linearized high and low peak hold for both temperature and humidity, re-initializes position at every chart change

Chart
Type: 8" circular, linear radial divisions, double sided; 1, 7 and 32 days, °C and °F scales

Chart Drive
Type: Stepper motor
Ranges: 1, 7 and 32 day, selectable
Accuracy: 1% of rotation
Chart Hold Down: magnetic hub lock

Recording Pens
Type: Disposable fiber tip, red for temperature, blue for humidity

Pen Drives
Type: Motorized linear screw drive
Deadband: 1°F, 1% RH
Zero: Automatic zero during chart change or power interruption
Penlift: Automatic on door opening; pens are door mounted and swing clear of the chart when door opens
Pen Arms: Clear plastic to allow full chart viewing

NEW! Wine Charts Available!
**Companion pH and Pressure Recorders for WHITE BOX®**

**Operating Conditions**

*Recorder*
- **Temperature:** 0 to 49°C (32 to 120°F)
- **Humidity:** 0 to 90% RH, non-condensing

*Sensor Remote*
- **Temperature:** -17 to 49°C (2 to 120°F)
- **Humidity:** 0 to 98% RH

**Alarms**
- User-selectable for high or low temperature and humidity

**Audible Alarm**
- Integral piezoelectric beeper

**Alarm Relay Contacts**
- 30 Vdc Normally open, single pole, single throw (SPST)

**Power (Recorder)**
- Four D cells (included) or 9Vdc/110, 50/60 Hz power adaptor (supplied); 220 Vac power adaptor supplied where applicable
- **Battery Life:** more than 1 month continuous operation in 32-day mode (average conditions)

**Power Requirements**
- 300 mA “normal” during pen movement for battery (dc) power
- 500 mA “normal” during pen movement for ac power

**DC Power Jack Voltage**
- 8.3 to 12.4 Vdc (nominal 9 Vdc), 1 Amp max.

**Mechanical**

**Dimensions**
- 33.5 cm H x 27.1 cm W x 6.7 cm D mm (13⅛" x 10⅛" x 2½")

**Weight**
- Approx. 7 lbs including batteries (3.2 Kg)

**Mounting**
- “Keyhole” slots for wall mounting; foot cover for benchtop use

**Case**
- Rugged ABS plastic

**Analog Voltage Input Adaptor**

**Input**
- 20 mVdc to 1200 mVdc records as 2 to 120°F, (-17 to 49°C) input protection up to 20 Vdc or 10 Vac RMS

**Input Impedance**
- 330 Kohms min.

**Input Connections**
- Banana jacks, 19mm (0.75") spacing

**Cable Length**
- 305 mm (12")

Available in Computer White and Gray
To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT485B-110V-G-AL</td>
<td>Gray, 110 Vac, with alarms and relay contacts</td>
</tr>
<tr>
<td>CT485B-110V-W-AL</td>
<td>White, 110 Vac, with alarms and relay contacts</td>
</tr>
<tr>
<td>CT485B-220V-G-AL</td>
<td>Gray, 220 Vac, with alarms and relay contacts</td>
</tr>
<tr>
<td>CT485B-220V-W-AL</td>
<td>White, 220 Vac, with alarms and relay contacts</td>
</tr>
</tbody>
</table>


Specialty Paper
(All double-sided, packages of 20 charts)

<table>
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<tr>
<th>Model Number</th>
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<tbody>
<tr>
<td>CT485-MW(*)</td>
<td>Museums/art galleries, 7 days (in °C or °F) 18.3 to 22.2 (65° to 72°F), 40 to 50% RH</td>
</tr>
<tr>
<td>CT485-MM(*)</td>
<td>Museums/art galleries, 32 days (in °C or °F) 18.3 to 22.2 (65° to 72°F), 40 to 50% RH</td>
</tr>
<tr>
<td>CT485-HW(*)</td>
<td>Hospitals, 7 days (in °C or °F) 20 to 23.3 (68° to 74°F), 40 to 50% RH</td>
</tr>
<tr>
<td>CT485-HM(*)</td>
<td>Hospitals, 32 days (in °C or °F) 20 to 23.3 (68° to 74°F), 40 to 50% RH</td>
</tr>
<tr>
<td>CT485-LW(*)</td>
<td>Lab, clean rooms, 7 days (in °C or °F) 20° to 23.9°C (68° to 75°F), 40 to 55% RH</td>
</tr>
<tr>
<td>CT485-LM(*)</td>
<td>Lab, clean rooms, 32 days (in °C or °F) 20° to 23.9°C (68° to 75°F), 40 to 55% RH</td>
</tr>
<tr>
<td>CT485-PW(*)</td>
<td>Computer rooms/offices, 7 days (in °C or °F) 18.3° to 23.9°C (65° to 75°F), 45 to 60% RH</td>
</tr>
<tr>
<td>CT485-PM(*)</td>
<td>Computer rooms/offices, 32 days (in °C or °F) 18.3° to 23.9°C (65° to 75°F), 45 to 60% RH</td>
</tr>
<tr>
<td>CT485-WMC</td>
<td>Wine storage 32 days, 10 to 15.6°C, 60 to 70% RH</td>
</tr>
<tr>
<td>CT485-WMF</td>
<td>Wine storage 32 days, 50 to 60°F, 60 to 70% RH</td>
</tr>
</tbody>
</table>

*Insert C (for °C) or F (for °F)

Ordering Example: CT485-MWC speciality paper for museums and art galleries, 7 days, with °C (celsius) temperature measurements, $20.

Accessories

<table>
<thead>
<tr>
<th>Model Number</th>
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<tbody>
<tr>
<td>CT485-CABLE-6W</td>
<td>6 ft. (2 meter) remote sensor cable, white</td>
</tr>
<tr>
<td>CT485-CABLE-6G</td>
<td>6 ft. (2 meter) remote sensor cable, gray</td>
</tr>
<tr>
<td>CT485B-CAL-LABEL</td>
<td>Calibration lockout cover labels (sheet of 10)</td>
</tr>
<tr>
<td>CT485B-CLIP-KIT</td>
<td>Sensor clip kit</td>
</tr>
<tr>
<td>CT485-AMV-W</td>
<td>Analog voltage input adaptor (cable), white</td>
</tr>
<tr>
<td>CT485-AMV-G</td>
<td>Analog voltage input adaptor (cable), gray</td>
</tr>
<tr>
<td>CT485-PS</td>
<td>Pen set, red and blue, package of 1 each</td>
</tr>
<tr>
<td>CT485-PS-6</td>
<td>Pen set, red and blue, package of 6 each</td>
</tr>
<tr>
<td>CT485B-CAL-KIT</td>
<td>Calibration kit for 110V or 220V units</td>
</tr>
<tr>
<td>CAL-3-HU</td>
<td>NIST Traceable Calibration</td>
</tr>
<tr>
<td>CT485B-RP-W</td>
<td>White replacement probe</td>
</tr>
<tr>
<td>CT485B-RP-G</td>
<td>Gray replacement probe</td>
</tr>
</tbody>
</table>

Note: all charts are double sided.

Ordering Example: CT485-CWC package of 600 double sided charts, 7 days, with °C (celsius) temperature measurements, $87.50