The CTXL Series circular chart recorders from OMEGA combine form and function in an easy to use two-channel circular chart recorder with a large, 200 mm (8") diameter chart, and dual channel LCD readout. Depending on your application, the CTXL is available to measure ambient temperature and humidity (with an available wireless option capable of up to 90 m (300') (line of sight), dual thermocouple, dual process (1 V, 5 V, 10 V, or 0/4 to 20 mA), or pH/temperature. The CTXL has a custom LCD readout that displays the current values of both channels, and can indicate the min, max or average input values as well. The display also indicates the chart speed (1, 7 or 32 day), battery status, high and low alarm indication, keypad lockout status, and battery life. Additional features of the CTXL include dual relays with contact closures for high alarms, and dual voltage outputs for low alarms to drive external relays. A built-in audible buzzer also informs the user of an alarm condition. A hidden key (White Box) can lockout unauthorized access to the front keypad, preventing changes to the recorder settings. The CTXL features a rugged, ABS enclosure, suitable for industrial environments, but it’s also intended to fit right in to other environments, such as museums, art galleries, computer rooms, labs, clean rooms, even hospitals. The CTXL is designed for both benchtop and wall mount operation; a convenient base rotates out of the way, and is hidden by a decorative foot cover for wall mount use. Each unit comes complete with 120 assorted double-sided charts, 2 pen sets, extra chart light, universal ac adaptor, 4 “D” cell alkaline batteries, RS232 cable and adaptor, wall mounting kit, and quick start manual. CTXL-TRH models are also supplied with sensor probe and clip, and 1.8 m (6’) probe extension cable.

† Refer to accessories chart for NIST calibration ordering information.
Temperature/Relative Humidity Recorder

MODEL #1
CTXL-TRH

-17 to 49°C (2 to 120°F) and 2 to 98% RH Ranges
Detachable Sensor Probe for Direct Attachment or Remote Mounting
Available Wireless Sensor Model
Windows-Based PC Data Logging Software Available Online
Specialty Chart Papers Available for Custom Applications
Benchtop or Wall Mount with Built-In Chart Lights
RoHS 2 Compliant

The CTXL–TRH recorder is designed for both local and remote monitoring of temperature and relative humidity. The standard sensor probe clips to the side of the unit, or may be detached and mounted up to 12 m (40') away, using available extension cables. For even longer distances, the recorder is available with a wireless probe, which can be placed up to 90 m (300') line of sight, or 33 m (110') indoors away from the recorder. Simply plug-in the wireless receiver in place of the probe into the recorder, and you’re ready to go.

The CTXL-TRH is available with specialty paper charts, with optimal ranges marked right on the chart, so you can easily see from a distance that the temperature and humidity readings are within range.

A Windows-based application program allows the user to monitor the temperature and relative humidity using their PC (software is available online). You can log the data to a file, as well as display the information on a custom on-screen chart; set the alarms on the recorder, and display their status on-screen. You can also re-scale the recorder chart paper, setting temperature and %RH limits anywhere within the range of the unit. This allows you to use the 8" chart to display narrow temperature and humidity bands, for greater resolution.

Specifications
(See Common Specifications on Page 8)
Temperature:
Range: -17.7 to 49°C (0 to 120°F)
Display Accuracy: ±1°C (2°F)
Chart Accuracy: ±1.5°C (3°F)
Display Resolution: 0.1° (F or C)

Relative Humidity:
Range: 0 to 98% RH
Display Accuracy: ±3% RH, 15 to 90% RH @ room temperature; ±5% RH, <15 or > 90% RH @ room temperature
Chart Accuracy: ±4% RH, 15 to 90% RH, ±6% RH, <15 or >90% RH
Display Resolution: 1% RH
Remote Probe:
12.2 m (40') max distance
Temperature/Humidity Sensor:
Digital sensor
Probe Disconnect: Pens will go to the Home position; Display will show “Prb Err”. Chart motor will continue to run
Alarm Set Point Resolution:
Temperature: 0.5°C or °F
Humidity: 1%RH
Alarm Deadband:
Temperature: 0.5°C or °F
Humidity: 3% RH
† Refer to accessories chart for NIST calibration ordering information.
Specifications
(See Common Specifications on Page 8)

Transmitter
Transmit Sample Rate:
2 sec up to 2 min
Radio Frequency:
ISM 915 MHz or ISM 868 MHz
Approvals:
CTXL-TRH-(*)-W9: FCC, Class A
RF Link Range:
Outdoor Line of Sight: Up to 90 m (300')
Indoor/Urban: Up to 33.5 m (110')
Computer Interface:
USB, to change transmit interval, frequency and channel ID
Operating Ambient:
-18 to 49°C (0 to 120°F), 2 to 98% RH
LED Indicators:
Red LED for Low Battery and other communication error indications; Green LED for transmit indication
Power:
One 3.6 Vdc “AA” Lithium Battery, 2400 mAH capacity, or optional ac adaptor, UNI-AC-100/240-5V
Battery Life: 1 year typical, at 1 minute transmission rate

Receiver
Computer Interface:
USB, to change receive interval, frequency and channel ID
Operating Ambient:
-18 to 49°C (0 to 120°F), 2 to 98% RH
LED Indicators:
Red LED for comm. error indications, Green LED for receive indication
Power:
From the CTXL recorder through the round DIN connector
† Refer to accessories chart for NIST calibration ordering information.

Application Software Available Online!
• Monitors Temperature and Humidity
• Line Graph and Store of Readings in Real Time and Download of Recorded Data
• Set the Line Graph Scales to Auto, Logarithmic, or Manual
• Re-Scale the Recorder Chart Paper
• Print Line Graphs to a Printer

Record Temperature/ Humidity with Remote Wireless Probe
RF Range 90 m (300') Line of Sight and 33 m (108') Indoors
1, 7 or 32 Day Recording
Easy to Read Dual Channel Backlit LCD Readout
Convenient Front Panel Programming/Operation
Monitor Min/Max/Avg Values
High/Low Audible/ Visual Alarms
Dual High Alarm Relays, Dual Low Alarm Voltage Outputs
Double Sided Charts with Magnetic Mount Hub
Benchtop or Wall Mount with Built-In Chart Lights
Powered by 4 “D” Batteries or Universal AC Adaptor
RoHS 2 Compliant

Choice of White or Gray to Meet Your Needs!

PATENTS PENDING

Remote wireless temperature/humidity transmitter, included, shown smaller than actual size.

CTXL-TRH-W-W9 temperature/humidity recorder with remote wireless transmitter, shown smaller than actual size.

LED indicators: Red LED for comm. error indications, Green LED for receive indication

Wireless Transmitter—Up to 90 m (300') from Recorder

† Refer to accessories chart for NIST calibration ordering information.

Large 200 mm (8”) 2-Sided Chart

Choice of White or Gray to Meet Your Needs!

Patents Pending
CTXL-TRH Units Include 120 Double-Sided Charts FREE! (20 each of 1-day, °F; 1-day, °C; 7-day, °F; 7-day, °C; 32-day, °F; 32-day °C). Additional charts can be ordered as 1 pack of 100 or 6 packs of 100 (see “Charts” table below left).

Double-Sided Specialty Charts (pkg of 20)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Color</th>
<th>Wireless</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT485-CDF</td>
<td>100 charts, 1 day (am/pm), °F</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-CDC</td>
<td>100 charts, 1 day (am/pm), °C</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-C24F</td>
<td>100 charts, 1 day (24 hr), °F</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-C24C</td>
<td>100 charts, 1 day (24 hr), °C</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-CWF</td>
<td>100 charts, 7 day, °F</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-CWC</td>
<td>100 charts, 7 day, °C</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-CMF</td>
<td>100 charts, 32 day, °F</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-CMC</td>
<td>100 charts, 32 day, °C</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>CT485-CSP</td>
<td>120 charts, 20 each, 1 day (am/pm), 7 day, 32 day, °F and °C (one included with unit)</td>
<td></td>
<td>—</td>
</tr>
</tbody>
</table>

Model No. Description Optimal Band Range
CT485-MW(*) Museum/art gallery, 7 day 18.3 to 22.2°C (65 to 72°F), 40 to 50% RH
CT485-MM(*) Museum/art gallery, 32 day 18.3 to 22.2°C (65 to 72°F), 40 to 50% RH
CT485-HW(*) Hospital, 7 day 20 to 23.3°C (68 to 74°F), 40 to 50% RH
CT485-HM(*) Hospital, 32 day 20 to 23.3°C (68 to 74°F), 40 to 50% RH
CT485-LW(*) Lab/clean room, 7 day 20 to 23.9°C (68 to 75°F), 40 to 55% RH
CT485-LM(*) Lab/clean room, 32 day 20 to 23.9°C (68 to 75°F), 40 to 55% RH
CT485-PW(*) Computer room/office, 7 day 18.3 to 23.9°C (65 to 75°F), 45 to 60% RH
CT485-PM(*) Computer room/office, 32 day 18.3 to 23.9°C (65 to 75°F), 45 to 60% RH

* Specify temperature units, °C for °C or °F for °F.

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Optimal Band Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTXL-PT-(*)</td>
<td>Wireless Temperature/Humidity probe transmitter, to retrofit a CTXL-TRH unit</td>
<td></td>
</tr>
<tr>
<td>CTXL-PR-(*)</td>
<td>Wireless Temperature/Humidity receiver, to retrofit a CTXL-TRH unit</td>
<td></td>
</tr>
<tr>
<td>UNI-AC-100/240-5V</td>
<td>Universal (110/240 Vac, 50/60 Hz) 5 Vdc adaptor, to power CTXL-PT externally</td>
<td></td>
</tr>
<tr>
<td>UNIV-AC-100/240</td>
<td>Universal (110/240 Vac, 50/60 Hz) 9 Vdc adaptor</td>
<td></td>
</tr>
<tr>
<td>CTXL-CABLE-6</td>
<td>1.8 m (6') sensor extension cable (replacement)</td>
<td></td>
</tr>
<tr>
<td>CTXL-CABLE-10</td>
<td>3 m (10') sensor extension cable</td>
<td></td>
</tr>
<tr>
<td>CTXL-CABLE-25</td>
<td>7.6 m (25') sensor extension cable</td>
<td></td>
</tr>
<tr>
<td>CTXL-CABLE-6-S</td>
<td>3 m (10') sensor extension cable</td>
<td></td>
</tr>
<tr>
<td>CT485B-CAL-KIT</td>
<td>RH calibration kit, 33 and 75% RH salt solutions</td>
<td></td>
</tr>
<tr>
<td>CAL-3-CTXL†</td>
<td>NIST-traceable calibration</td>
<td></td>
</tr>
<tr>
<td>CT485B-MAG</td>
<td>Chart magnetic hub</td>
<td></td>
</tr>
<tr>
<td>CT485-PS</td>
<td>Pen set, one each red and blue pens</td>
<td></td>
</tr>
<tr>
<td>CT485-PS-6</td>
<td>Six pen sets, six each red and blue pens</td>
<td></td>
</tr>
<tr>
<td>CTXL-RP-W-CAL-3</td>
<td>Temperature/humidity sensor probe (white) with CAL-3 certificate</td>
<td></td>
</tr>
<tr>
<td>CTXL-RP-G-CAL-3</td>
<td>Temperature/humidity sensor probe (gray) with CAL-3 certificate</td>
<td></td>
</tr>
<tr>
<td>CTXL-RP-W</td>
<td>Temperature/Humidity sensor probe (white)</td>
<td></td>
</tr>
<tr>
<td>CTXL-RP-G</td>
<td>Temperature/Humidity sensor probe (gray)</td>
<td></td>
</tr>
<tr>
<td>CT485B-CLIP-KIT</td>
<td>Sensor clip kit</td>
<td></td>
</tr>
<tr>
<td>OM-NOMAD-BATT</td>
<td>3.6V “AA” lithium replacement battery for CTXL-PT wireless transmitter</td>
<td></td>
</tr>
</tbody>
</table>

* Specify wireless type: “W9” for USA/Canada (915 MHz) or “W8” for Europe (868 MHz). To retrofit a CTXL-TRH recorder with wireless capability, one transmitter (CTXL-PT) and one receiver (CTXL-PR) are required.

Each unit comes complete with sensor probe and clip, 120 assorted double-sided charts, 2 pen sets, 1.8 m (6') remote sensor cable, wall mount kit, 4 “D” cell batteries, RS232 cable and adaptor, universal (110/240 Vac, 50/60 Hz) 9 Vdc adaptor, and quick start manual.  

Ordering Example: CTXL-TRH-W-W9, white temperature/relative humidity recorder with remote/wireless probe, CT485-CWF, chart paper (100 double sided sheets, 7 day, °F).
The CTXL-DPR is a dual input process recorder, available with either voltage or current inputs. Both input channels are set to the same input range; the voltage input model has selectable ranges of 0 to 1, 0 to 5 and 0 to 10V, while the current model is selectable between 0 to 20 and 4 to 20 mA ranges. Standard charts are scaled for 0 to 100%; the user can also scale the chart paper to show a portion of the full range.

Specifications
(See Common Specifications on Page 8)
Input Types: Process voltage (DPR-V) or current (DPR-I)
Input Connection: mini DIN connector
Input Ranges: Both input channels configured to same input range
- CTXL-DPR-V: 0 to 1V, 0 to 5V or 0 to 10V
- CTXL-DPR-I: 4 to 20 mA or 0 to 20 mA
Display Accuracy: ±1.0%FS
Standard Chart Scale: 0 to 100%
Out of Range Input: Display will flash. Chart motor will continue to run
Alarm set point Resolution: 1%
Alarm Deadband: 3%
Excitation Voltage: 15Vdc @ 50 mA

To Order
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Color</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTXL-DPR-W-V</td>
<td>Dual input process recorder</td>
<td>White</td>
<td>Voltage</td>
</tr>
<tr>
<td>CTXL-DPR-G-V</td>
<td>Dual input process recorder</td>
<td>Gray</td>
<td>Voltage</td>
</tr>
<tr>
<td>CTXL-DPR-W-I</td>
<td>Dual input process recorder</td>
<td>White</td>
<td>Current</td>
</tr>
<tr>
<td>CTXL-DPR-G-I</td>
<td>Dual input process recorder</td>
<td>Gray</td>
<td>Current</td>
</tr>
</tbody>
</table>

Double-Sided Charts
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTXL-DPR-CD</td>
<td>100 charts, 1 day (am/pm), 0 to 100%</td>
</tr>
<tr>
<td>CTXL-DPR-CW</td>
<td>100 charts, 7 day, 0 to 100%</td>
</tr>
<tr>
<td>CTXL-DPR-CM</td>
<td>100 charts, 32 day, 0 to 100%</td>
</tr>
<tr>
<td>CTXL-CSP-P</td>
<td>120 charts, sample pack (one included with unit)</td>
</tr>
</tbody>
</table>

Accessories
<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAL-3-CTXL†</td>
<td>NIST-traceable calibration</td>
</tr>
<tr>
<td>UNIV-AC-100/240</td>
<td>Universal 9 Vdc adaptor</td>
</tr>
<tr>
<td>CTXL-CABLE-6-S</td>
<td>1.8 m (6') analog input extension cable, stripped leads termination</td>
</tr>
<tr>
<td>CT485-PS</td>
<td>Pen set, one each red and blue pens</td>
</tr>
<tr>
<td>CT485-PS-6</td>
<td>Six pen sets, six each red and blue pens</td>
</tr>
</tbody>
</table>

Each unit comes complete with 120 assorted double-sided charts, 2 pen sets, 1.8 m (6') input cable, wall mount kit, 4 "D" cell batteries, RS232 cable and adaptor, universal ac adaptor, and quick start manual.

Ordering Example: CTXL-DPR-W-V, white dual voltage input recorder, CTXL-DPR-CW, chart paper (100 double-sided sheets, 7 day, 0 to 100%).
Dual Input Thermocouple Recorder

MODEL #4
CTXL-DTC

确认选择可选
J、K或T型热电偶输入

通用热电偶连接器兼容
标准和微型连接器

至 ±1.5°C (2.7°F)
显示精度

可选双输入
带内置图表灯

数据日志计算机软件

RoHS 2 合格

CTXL-DTC 是一个双输入热电偶记录仪，两个输入
通道的校准相同；用户可以选择
J、K或T型热电偶校准。

输入连接

显示范围

规格

型号 No.  | 描述               | 图纸
----------|--------------------|------
CTXL-DTC-W | 双输入热电偶记录仪 | 白色
CTXL-DTC-G | 双输入热电偶记录仪 | 灰色

双面图表

型号 No.  | 描述               | 数量
----------|--------------------|------
CTXL-DTC-(*)-CD | 100 张，1 天 (am/pm) | -
CTXL-DTC-(*)-CW | 100 张，7 天 | -
CTXL-DTC-(*)-CM | 100 张，32 天 | -
CTXL-CSP-T | 样本包 (一个随附) | -

配件

型号 No.  | 描述                        | 数量
----------|------------------------------|------
CAL-3-CTXL† | NIST 可追踪校准 | -
UNIV-AC-100/240 | 9V 直流适配器 | -
CT485-PS | 钢笔套，一套红色和蓝色钢笔 | -
CT485-PS-6 | 六套钢笔，每套两支红色和蓝色钢笔 | -

* 指定图表范围：
“R1”为 -40 到 560°C (-40 到 1040°F)，
“R2”为 -40 到 260°C (-40 到 500°F)，
“R3”为 -40 到 160°C (-40 到 320°F)

每个单位均配有两个 SC-GG-K-30-36-PP 热电偶，120 张
双面图表，2 支钢笔套装，墙装固定套，4 支 D 型电池，RS232 电缆
和适配器，通用交流适配器，及快速开始手册。

订购示例：CTXL-DTC-G，灰色双输入热电偶输入记录仪，
CTXL-DTC-R1-CW，图表纸 [100 张双面图纸，7 天，
-40 到 560°F (-40 到 1040°F) 范围]。
pH/Temperature Recorder

MODEL #5
CTXL-PH

- Record pH with Automatic Temperature Compensation
- Standard BNC pH Electrode Connector
- Pt100 RTD Temperature Sensor ATC
- Benchtop or Wall Mount with Built-In Chart Lights
- Data Logging PC Software Available Online
- RoHS 2 Compliant

The CTXL-PH is a high accuracy pH and temperature recorder, compatible with any standard pH electrode. The CTXL-PH also measures temperature from a pH electrode with built-in Pt100 RTD sensor for automatic temperature compensation for pH measurement. Standard charts feature 0 to 12 pH and 0 to 120°C ranges, while the recorder can display 0 to 14 pH and 0 to 100°C on the digital readout. The user can also scale the chart paper to show a portion of the full ranges, i.e., from 6 to 8 pH and from 50 to 75°C, for greater resolution.

Specifications
(See Common Specifications on Page 8)

pH Input:
- Connection: BNC connector
- Display Range: 0 to 14 pH
- Chart Scale: 0 to 12 pH
- Accuracy: 0.1 pH, chart and display
- Resolution:
  - Chart Paper: 0.1 pH
  - Display: 0.01 pH
- Input Impedance: $10^{12}$ Ω, typical
- Automatic Temperature Compensation: 0 to 100°C (32 to 212°F)

Temperature Input
- Input: Pt100 RTD, 0.00385 curve
- Connection: Terminal block
- Display Range: 0 to 100°C (32 to 212°F), chart and display
- Chart Scale: 0 to 120°C
- Accuracy: 1°C, chart and display
- Resolution:
  - Chart Paper: 1°C
  - Display: 0.1°C

**To form a complete system, add pH electrode (listed in accessories).**

### Double-Sided Chart

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTPH-CDC</td>
<td>100 charts, 1 day (am/pm), 0 to 12 pH/0 to 120°C</td>
</tr>
<tr>
<td>CTPH-CWC</td>
<td>100 charts, 7 day, 0 to 12 pH/0 to 120°C</td>
</tr>
<tr>
<td>CTPH-CMC</td>
<td>100 charts, 32 day, 0 to 12 pH/0 to 120°C</td>
</tr>
<tr>
<td>CTPH-CSP</td>
<td>120 charts, sample pack (one included with unit)</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE-7352-15-PT100</td>
<td>Heavy-duty pH electrode with Pt100 RTD temperature sensor</td>
</tr>
<tr>
<td>PHE-6510</td>
<td>Submersion pH electrode, CPVC (mounting assembly required), visit omega.com/phe-6510</td>
</tr>
<tr>
<td>PHE-6511</td>
<td>Submersion pH electrode, PVDF (mounting assembly required), visit omega.com/phe-6510</td>
</tr>
<tr>
<td>PHE-1311</td>
<td>General purpose pH electrode</td>
</tr>
<tr>
<td>PHA-4</td>
<td>4 pH buffer solution, 475 ml bottle</td>
</tr>
<tr>
<td>PHA-7</td>
<td>7 pH buffer solution, 475 ml bottle</td>
</tr>
<tr>
<td>PHA-10</td>
<td>10 pH buffer solution, 475 ml bottle</td>
</tr>
<tr>
<td>UNIV-AC-100/240</td>
<td>Universal 9 Vdc adaptor</td>
</tr>
<tr>
<td>CAL-3-CTXL†</td>
<td>NIST-traceable calibration</td>
</tr>
<tr>
<td>CT485-PS</td>
<td>Pen set, one each red and blue pens</td>
</tr>
<tr>
<td>CT485-PS-6</td>
<td>Six pen sets, six each red and blue pens</td>
</tr>
</tbody>
</table>

Each unit comes with 120 assorted double-sided charts, 2 pen sets, wall mount kit, 4 “D” cell batteries, AS232 cable and adaptor, universal ac adaptor, temperature compensation resistor and quick start manual. pH Electrode sold separately.

Ordering Examples: CTXL-PH-W, white pH/temperature recorder, PHE-6510, submersible pH electrode (CPVC) and PHEH-65-10-PT100, mounting assembly with 100 Ω Pt RTD automatic temperature compensation.
Keypad Buttons
Clock – Display Time & Date for 3 seconds
°C ▼►°F – Toggle Temperature Units (Temp units)
Scale – Sets the Chart Scale for °C or °F (Temp units)
Speed – Sets Chart Speed for 1, 7 or 32 Day Operation
Config – Enter Configuration Menu
Set – Enable/Disable Alarms
▲ Yes – Increase Set Value
▼ No – Decrease Set Value
Mode – Display Min, Max, Average; also T1-T2 (thermocouple model)
Light – Chart Light and Display Backlight Switch
White Box – User Lockout

Common Specifications
Display: Custom, 4-digit, dual LCD with backlight
Display Sampling Rate: 2 sec
Display Modes: Max, min, avg, T1 – T2
Chart Response Time: 0.5, 3.5, 16 min for 1, 7, and 32 days, respectively
Keypad Response: 350 ms
Chart Paper: 203 mm (8”) circular, linear radial divisions, double sided
Chart Drive:
  Type: Stepper motor
  Accuracy: 1% rotation
Chart Hold-Down: Magnetic hub
Pen Drive:
  Type: Stepper motor, linear screw drive
  Deadband: 0.5°C or °F and 3% RH
  Pen Lift: Automatic on door opening—pens are door mounted and swing clear of the chart when door opens
Clock: Time (24 hr clock) and date
Clock Battery Backup: Holds clock information for 14 days when main power is removed
Audible Alarm: Piezoelectric beeper
Alarm Outputs:
  Relay Contacts: Two, rated 2 A @ 30 Vdc (high alarm)
  Voltage Output: Two, rated 100 mA to drive an external relay (low alarm)
Operating Ambient: 0 to 49°C (32 to 120°F); 2 to 98% RH
Power: 4 “D” alkaline batteries and ac adaptor (included)
Battery Life: 3 months under normal conditions
AC Adaptor: 100 to 240 Vac input, 9 Vdc @ 1.7 A output
Battery Status: Indicator on LCD; shows 100, 75%

Serial PC Communications: RS232, 2-way, 9600 baud
Memory: 256K EEPROM (2.8 chart revolutions worth of data)
Lock/Unlock (White Box) Key:
Press and hold for 3 seconds to enable/disable; when in lock mode, all keys are inactive except for the power, light, mode, clock and lock/unlock keys

Mounting: Keyhole slots for wall mounting; foot cover for bench top use
Case: ABS plastic
Dimensions: 33.5 H x 27.1 W x 6.7 cm D (13¾ x 10½ x 2½”)
Weight: Approx. 3.2 kg (7 lb) with batteries