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Find the *OMEGA CT485B* at our website: *Click HERE*

Microprocessor-Based Temperature/Relative Humidity Recorder

CT485B Series

$642
Basic Unit includes 120 double sided charts

MADE IN USA | CE All 220 Vac Models | 1 YEAR WARRANTY | OMEGACARE Extended Warranty Program | & EMC SERVICES

Shown smaller than actual size

For additional features and models, please consult sales or visit omega.com



All 220 Vac Models are CE Labeled

- Available in Computer Room White or Charcoal Gray
- Versatile Remote Mounting Sensor
- Convenient Front Panel Programming
- 200 mm (8") Chart for 1, 7, or 32-Day Recording
- Fully Electronic Microprocessor Control
- Benchtop or Wall Mounted
- Alarm Contact Standard
- 1,2,3 Year Extended Warranty Comes with Extra Pens, Paper, Batteries
- Sensors Not Recommended for Use in a Corrosive Environment
- Companion Pressure and pH Recorder Available

Complete with 120 Assorted Double-Sided Charts, 2 Sets of Pens, 1.8 m (6') Remote Sensor Cable, Wall Mounting Kit, Cal-Lock Kit, Batteries, and ac Adaptor

Covered by U.S. and international patents and pending applications

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 recording °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 or 220 Vac (depending on model ordered) power adaptor is supplied for continuous long-term operation, along with four D-cell batteries for backup power or field use. Each unit includes 1.8 m (6') 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.

OMEGACARE℠ extended warranty program is available for this model. Ask your sales representative for full details when placing an order. OMEGACARE℠ covers parts, labor and equipment loaners.

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Specifications

Measurement Inputs: Temperature and humidity, with plug-in external sensor, removable for remote location, 2 m (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, backlit LCD

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, backlit, 12.7 mm (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: 203 mm (8") circular, linear radial divisions, double sided; 1, 7 and 32 days, °C and °F scales

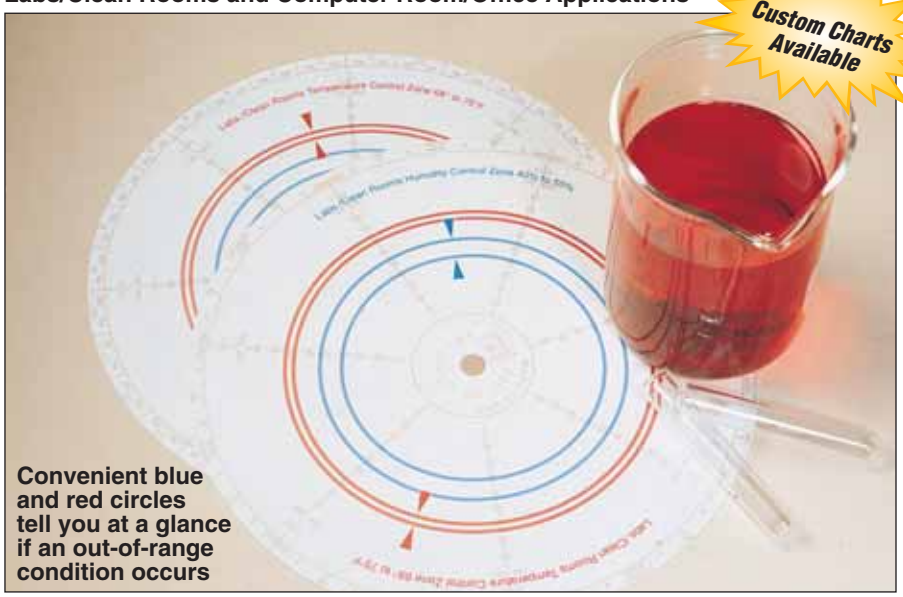
CHART DRIVE
Type: Stepper motor
Ranges: 1, 7 and 32 day, selectable
Accuracy: 1% of rotation
Chart Hold Down: magnetic hub lock

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



Specialty Charts for Museum/Art Gallery, Hospitals, Labs/Clean Rooms and Computer Room/Office Applications



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

OPERATING CONDITIONS (SENSOR REMOTE)
Sensors not recommended for use in a corrosive environment
Temperature: -17 to 49°C (2 to 120°F)
Humidity: 0 to 98% RH

ALARMS
Alarms: User-selectable for high or low temperature and humidity
Audible Alarm: Integral piezoelectric beeper
Alarm Relay Contacts:
1 Amp, 30 Vdc normally open, single pole, single throw (SPST)

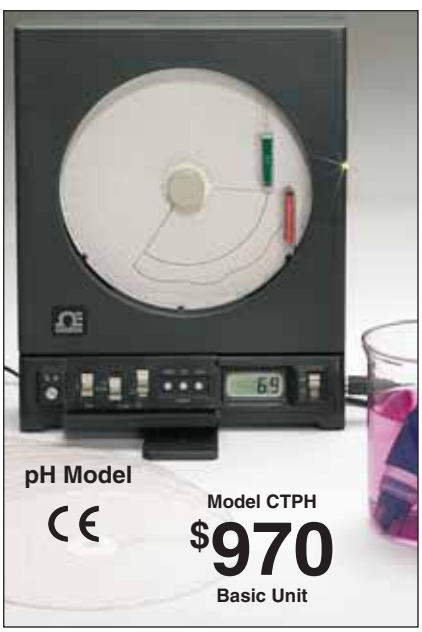
Power (Recorder): Four D cells batteries (included) and 9 Vdc/110, 50/60 Hz power adaptor (supplied); 220 Vac power adaptor supplied where applicable
Battery Life: more than 1 month continuous operation in 32-day mode (average conditions)
Power Requirements: 300 mA "normal" during pen movement for battery (dc) power; 500 mA "normal" during pen movement for ac power using ac adaptor with chart lights on
Note: the light bulbs drain 200 mA of current
DC Power Jack Voltage:
8.3 to 12.4 Vdc (nominal 9 Vdc), 1 Amp max.

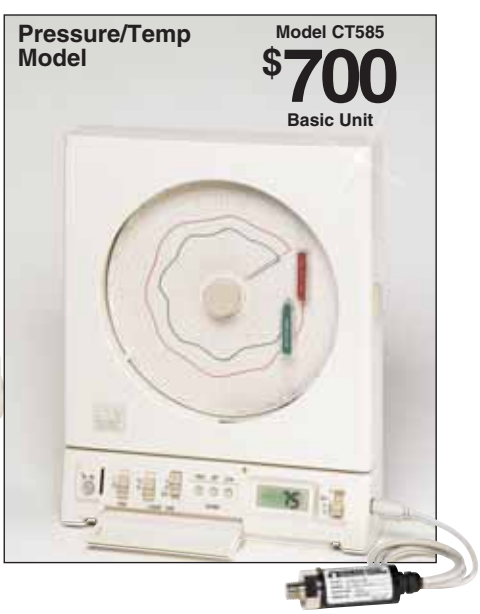
MECHANICAL
Dimensions: 33.5 H x 27.1 W x 6.7 cm D (13⅜ x 10¹¹⁄₁₆ x 2⅝")
Weight: Approx. 3.2 kg (7 lb) including batteries
Mounting: "Keyhole" slots for wall mounting; foot cover for benchtop use
Case: Rugged ABS plastic

ANALOG VOLTAGE INPUT ADAPTOR
Input: 20 mVdc to 1200 mVdc records as -17 to 49°C, (2 to 120°F) input protection up to 20 Vdc or 10 Vac RMS
Input Impedance: 330 Kohms min.
Input Connections: Banana jacks, 19 mm (0.75") spacing
Cable Length: 305 mm (12")

For Companion Recorders, Please see Section S







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ALL MODELS AVAILABLE FOR FAST DELIVERY!

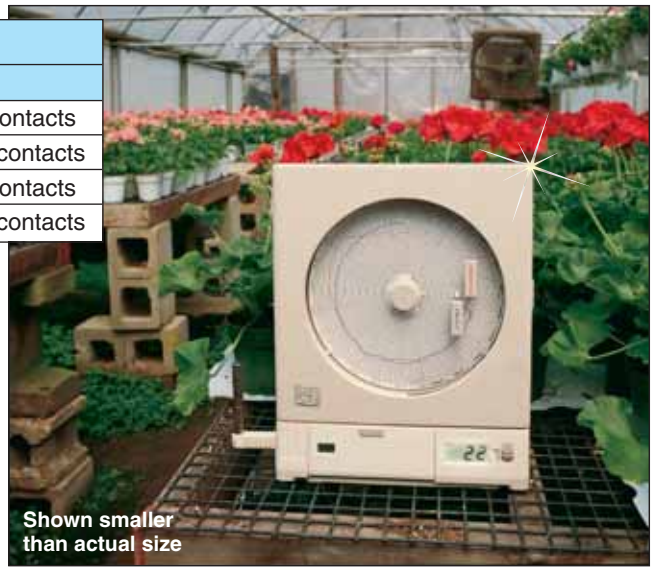
To Order *(Specify Model Number)*

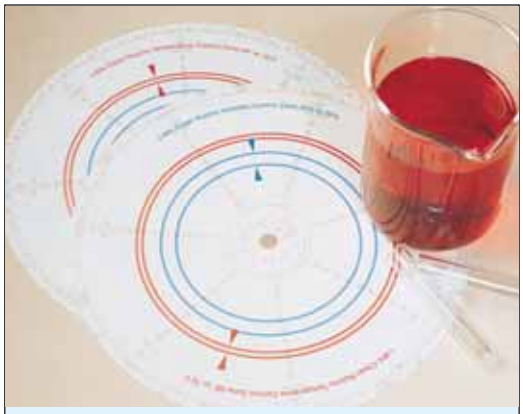
Model Number	Price	Description
CT485B-110V-G-AL	$642	Gray, 110 Vac, with alarms and relay contacts
CT485B-110V-W-AL	650	White, 110 Vac, with alarms and relay contacts
CT485B-220V-G-AL	662	Gray, 220 Vac, with alarms and relay contacts
CT485B-220V-W-AL	670	White, 220 Vac, with alarms and relay contacts

Comes with complete operator's manual, batteries, ac adaptor, assorted charts, pen set, remote sensor cable, and wall mounting kit.

Ordering Example: CT485B-220V-W-AL,** CE labeled white recorder with alarms and relay contacts, 220 V, with 120 double sided charts ($670), and **CT485-CWC,** package of 100, 7 day, °C (celsius) temperature measurement charts ($19), $670 + 19 = **$689.

OCW-3** OMEGACARE℠ extends standard 1-year warranty to a total of 4 years ($167), $670 + 167 = **$837.





Custom Charts Available

Charts–Each Unit Includes:

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 below as 1 pack of 100 or 6 packs of 100

Model No.	Price	Description
CT485-CDF	$19	100 Charts, 1 day am/pm, °F
CT485-CDC	19	100 Charts, 1 day am/pm, °C
CT485-C24F	10	20 Charts, 24 hour clock, °F
CT485-C24C	10	20 Charts, 24 hour clock, °C
CT485-CWF	19	100 Charts, 7 day, °F
CT485-CWC	19	100 Charts, 7 day, °C
CT485-CMF	19	100 Charts, 32 day, °F
CT485-CMC	19	100 Charts, 32 day, °C
CT485-CSP	19	120 Charts, 20 of each style
CT485-CDF-6	87.50	600 Charts, 1 day, °F
CT485-CDC-6	87.50	600 Charts, 1 day, °C
CT485-CWF-6	87.50	600 Charts, 7 day, °F
CT485-CWC-6	87.50	600 Charts, 7 day, °C
CT485-CMF-6	87.50	600 Charts, 32 day, °F
CT485-CMC-6	87.50	600 Charts, 32 day, °C

***Note:** all charts are double sided.*

***Ordering Example: CT485-CWC-6** package of 600 double sided charts, 7 days, with °C (celsius) temperature measurements, **$87.50**.*

Specialty Paper

(All double-sided, packages of 20 charts)

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

**Insert C (for °C) or F (for °F)*

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

Accessories

Model Number	Price	Description
CT485-CABLE-6W	$23.75	2 m (6') remote sensor cable, white
CT485-CABLE-6G	23.75	2 m (6') remote sensor cable, gray
CT485B-CAL-LABEL	5	Calibration lockout cover labels (sheet of 10)
CT485B-CLIP-KIT	5	Sensor clip kit
CT485-AMV-W	22.50	Analog voltage input adaptor (cable), white
CT485-AMV-G	22.50	Analog voltage input adaptor (cable), gray
CT485-PS	10	Pen set, red and blue, package of 1 each
CT485-PS-6	52	Pen set, red and blue, package of 6 each
CT485B-CAL-KIT	75	Calibration kit
CAL-3-HU	125	NIST Traceable Calibration
CT485B-RP-W	80	White replacement probe
CT485B-RP-G	80	Gray replacement probe

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s, Pumps, Rotameters, Turbine and Paddle Wheel
s, Ultrasonic Flowmeters, Valves, Variable Area
s, Vortex Shedding Flowmeters

nd Conductivity

ity Instrumentation, Dissolved Oxygen
tation, Environmental Instrumentation, pH
and Instruments, Water and Soil Analysis
tation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters

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