# TEMPERATURE/RELATIVE HUMIDITY RECORDER MICROPROCESSOR BASED

CT485B Series

Starts at

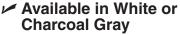
For additional features and models, please consult Sales or visit omega.com











- ✓ Remote Mounting Sensor
- Convenient Front-Panel **Programming**
- ∠ 200 mm (8") Chart for 1-, 7-, or 32-Day Recording
- Microprocessor Based
- Benchtop or Wall Mounted
- Alarm Contact
- ✓ 1-, 2-, or 3-Year Warranty Includes Extra Pens, Paper, and Batteries
- Companion Pressure and pH Recorder Available

DISCONTINUED The CT485B self-contained temperature/relative humidity recorder is microprocessor based for accurate measurement and recordina.

This rugged unit features alarms containing a single relay contact that closes in response to an alarm condition. High and low alarm points for temperature and relative humidity are user selectable. When the present values exceed the preset values, the 2 A relay closes and an alarm sounds.

The power switch and control functions are behind a lockable front-panel door. Here the use m select 1-, 7-, or 32-day operation; switch between °C and °F recording;

CT485B-110V-W-AL, \$650, shown smaller than actual size.

PATENTED Covered by U.S. and International patents and pending applications

or calibrate digital alarm settings with the push of a button.

A 3-position switch next to the display selects °C, °F, or %RH readout. The chart drive is stepper controlled, and a magnetic retaining knob prevents paper tear.

With its stabilizing foot, the CT485B is easily mountable on a benchtop.

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mounting the sensor. A sensor holding clip is also provided.

These recorders come with a 110 or 220 Vac (depending on model) adaptor for long-term use, along with 4 "D" cell batteries for backup power or field use. Units also come with 2 chart light bulbs for easy viewing in dimly lit conditions. (This feature works / w th AC power.)

# TEMPERATURE/ RELATIVE HUMIDITY RECORDER

#### CT485B-220V-W-AL, \$670, shown **Benchtop** smaller than actual size. Available in ( Wal mount d

#### **SPECIFICATIONS**

Measurement Inputs: Temperature and humidity, with plug-in sensor, remote 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/°F

Humidity

Range: 2 to 98% RH

**Accuracy:** ±3% @ 25°C (77°F), between 20 and 90% of range [(±5% below 20% and above 90% @

25°C (77°F)]

Sensor: Resistive polymer:

not recommended for use in corrosive

environments

Response Time: 5 minutes for a

30 to 80% step change **Display Resolution: 1% RH** 

**Display** 

Type: 2½ digit, 12.7 mm (0.5"), backlit

LCD; low-battery indicator

Display Modes: Front-panel switchable between °C, °F and %RH for continuous digital display; max/min storage for both temperature and humidity; 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, line 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 during chart change

or power interruption

Penlift: Automatic on door opening: pens are door mounted and swin of the chart when door opens

Pen Arms: Clear plastic to allow tull

chart viewing





# TEMPERATURE/RELATIVE HUMIDITY RECORDER.

**Operating Conditions** 

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

Operating Conditions (Sensor Remote)

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 A, 30 Vdc normally open; single pole,

single throw (SPST)

**Backlite display** feature on all models.

Power: 4 "D" cell batteries and 110 Vac, 50/60 Hz (both included); 220 Vac adaptor with applicable models

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 with chart lights on (the light bulbs drain 200 mA of current)

DC Power Jack Voltage:

8.3 to 12.4 Vdc (nominal 9 Vdc),

1 A max

Mechanical

Dimensions: 33.5 H x 27.1 W x 6.7 cm D

(13% x 101% x 2%")

Weight: Approx. 3.2 kg (7 lb) with batteries

tir y; foo co

e. Rugged

**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 k $\Omega$  min Input Connections: Banana jacks,

19 mm (0.75") spacing Cable Length: 305 mm (12")

OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE™ covers

parts, labor and equivalent loaners.



For companion recorders, search omega.com.



than actual size.

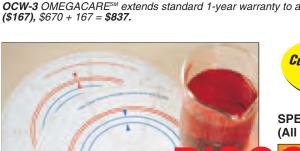
#### MOST POPULAR MODELS HIGHLIGHTED!

To Urder (Specify Model Number)				
MODEL NO.	PRICE	DESCRIPTION		
CT485B-110V-G-AL	\$642	Gray, 110 Vac, with alarms and relay contacts		
CT485B-110V-W-AL	650	White 10 Mac, with alarms and relay contacts		
CT485B-220V-G-AL	662	White 110 Yec, with alarms and relay contacts  Live 20 Vac, with the larm and real contacts		
CT485B-220V-W-AL	670	White, 220 Vac, with alarms and relay contacts		

Comes with complete operator's manual, batteries, AC adaptor, 120 assorted double-sided charts, 2 sets of pens, remote sensor cable, wall mounting kit and cal-lock kit.

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

**OCW-3** OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years,



### **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	\$19.00	100 charts, 1 day am/pm, °F
CT485-CDC	19.00	100 charts, 1 day am/pm, °C
CT485-C24F	10.00	20 charts, 24-hour clock, °F
CT485-C24C	10.00	20 cha s, 24-hou clo k
CT485-CWF	19.00	100 charts, 7 day, °F
CT485-CWC	19.00	100 charts, 7 day, °C
CT485-CMF	19.00	100 charts, 32 day, °F
CT485-CMC	19.00	100 charts, 32 day, °C
CT485-CSP	19.00	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-6 600 double-sided charts, 7 days, wit measurements, \$87.50.



SPECIALTY PAPER (All Double-Sided, Packages of 20 Charts)

1 TO 1 TO 1	YR C I	N SOR FA'ON
CT 8: -M\ /(*)	2	Museum 3/a galleries, 7 days (in °C or °F) 18.3 to 22.2°C (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	Labs, clean rooms, 7 days (in °C or °F) 20 to 23.9°C (68 to 75°F), 40 to 55% RH
CT485-LM(*)	20	Labs, 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

shown smaller than actual size

Ordering Example: CT485-MWC specialty paper for museums and art galleries,

#### ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION	
CT485-CABLE-6W	\$23.75	2 m (6') remote sensor cable, white	
CT485-CABLE-6G	23.75	23.75 2 m (6') remote sensor cable, gray	
CT485B-CAL-LABEL	5.00	Calibration lockout cover labels (sheet of 10)	
CT485B-CLIP-KIT	5.00	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	10.00	Pen set, red and blue, package of 1 each	
CT485-PS-6	52.00	Pen set, red and blue, package of 6 each	
CT485B-CAL-KIT	75.00	Calibration kit	
CAL-3-HU	125.00	NIST-traceable calibration	
CT485B-PP.W	<b>80.00</b>	White replacement probe	
CT/ B E P- i	8 0.0	Gray rer acement probe	

<sup>\*</sup> Insert C (for °C) or F (for °F).

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