

TEMPERATURE/RELATIVE HUMIDITY RECORDER

MICROPROCESSOR BASED

DISCONTINUED

CT485B Series

Starts at
\$642

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



DISCONTINUED

- ✓ Available in White or Charcoal Gray
- ✓ 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 recording.

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 user may select 1-, 7-, or 32-day operation, switch between °C and °F recording,

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. The recorder has a heavy-duty mounting bracket. Each unit includes 1.8 m (6') of cable for remotely

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 only with AC power.)

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

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

DISCONTINUED

TEMPERATURE/ RELATIVE HUMIDITY RECORDER

DISCONTINUED

CT485B-220V-W-AL, \$670, shown smaller than actual size. Available in white or charcoal gray.

**Benchtop
wall
mounted**

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 swing clear of the chart when door opens

Pen Arms: Clear plastic to allow full chart viewing



NEW BACKLITE DISPLAY FEATURE ON AC POWER!

CE-labeled 220 Vac model, shown with ferrite core noise suppressor (included on CE models).

DISCONTINUED

DISCONTINUED

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

Custom Charts Available



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Convenient, full-size red and blue pens indicate an out-of-range condition.

TEMPERATURE/RELATIVE HUMIDITY RECORDER

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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)

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 (1 3/8 x 10 1/16 x 2 5/8")

Weight: Approx. 3.2 kg (7 lb) with 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 kΩ min

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

Cable Length: 305 mm (12")

OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

DISCONTINUED

For companion recorders, search omega.com.

New!
Backlite display feature on all models.



DISCONTINUED

DISCONTINUED



CTPH, pH recorder, \$970, shown smaller than actual size.



C158, pressure/temperature recorder, \$700, shown smaller than actual size.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (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, 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, 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 OMEGACARESM extends standard 1-year warranty to a total of 4 years, (\$167), \$670 + 167 = \$837.



CT485B-XXXX-XX-XXXX, shown smaller than actual size.

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	\$19.00	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 charts, 24-hour clock, °C
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, package of 600 double-sided charts, 7 days, with °C temperature measurements, \$87.50.

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

MODEL NO.	PRICE	DESCRIPTION
CT485-MM(*)	20	Museums/art galleries, 7 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

* Insert C (for °C) or F (for °F).

Ordering Example: CT485-MWC, specialty paper for museums and art galleries, 32 days, with °C temperature measurements, \$40.

ACCESSORIES

MODEL NO.	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	5.00	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-REP-W	80.00	White replacement probe
CT485B-REP-G	80.00	Gray replacement probe



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