Microprocessor-Based Temperature/Relative Humidity Recorder

Shown smaller

Basic Unit includes 120 double sided charts



Available in Computer Room White or Charcoal Grey

Versatile Remote Mounting Sensor

Convenient Front Panel Programming

✓ 200 mm 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 Remote Sensor Cable, Wall Mounting Kit, Cal-Lock Kit, Batteries, and ac Adaptor

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 stabilising 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 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.

OMEGACARESM extended warranty programme is available for this model. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labour and equipment loan unit.



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

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

CT485B Series

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 unauthorised changing of calibration codes. A stabilising arm provides added stability for benchtop

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 211/42 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 linearised high and low peak hold for both temperature and humidity, re-initializes position at every chart change

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

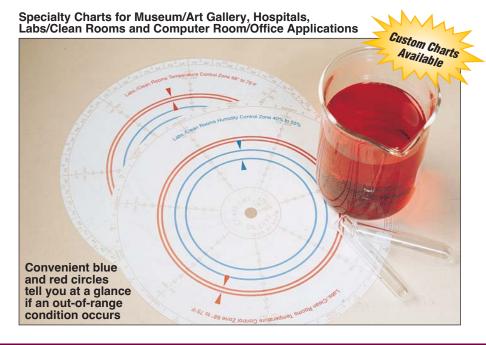
Zero: Automatic zero during chart change or power interruption

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





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

(133/16 x 1011/16 x 25/8")

Weight: Approx. 3.2 kg (7 lb) including

Mounting: "Keyhole" slots for wall mounting; foot cover for benchtop use

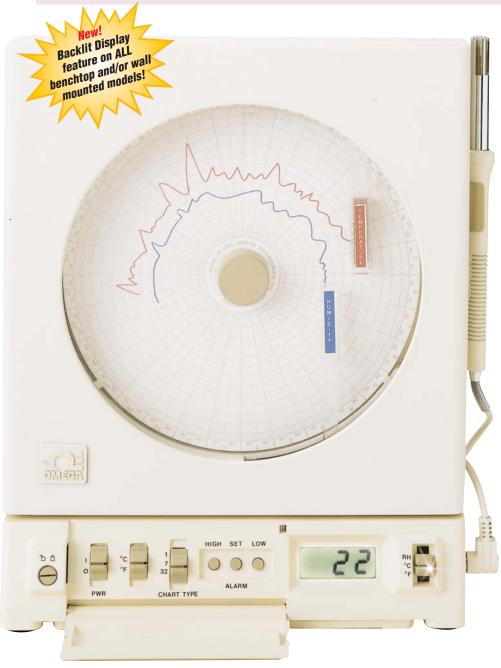
Case: Rugged ABS plastic

ANALOGUE 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 omega.co.uk







55

ALL MODELS AVAILABLE FOR FAST DELIVERY!

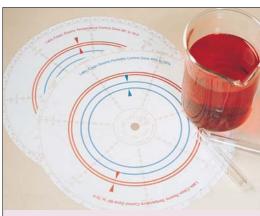
To Order (Specify Model Number)			
	Description		
	Grey, 110 Vac, with alarms and relay contacts		
	White, 110 Vac, with alarms and relay contacts		
	Grey, 220 Vac, with alarms and relay contacts		
	White, 220 Vac, with alarms and relay contacts		
	Model		

^{*110} Vac models are not CE compliant

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, and CT485-CWC, package of 100, 7 day, °C (celsius) temperature measurement charts

OCW-3 OMEGACARE SM 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.	Description
CT485-CDF	100 Charts, 1 day am/pm, °F
CT485-CDC	100 Charts, 1 day am/pm, °C
CT485-C24F	20 Charts, 24 hour clock, °F
CT485-C24C	20 Charts, 24 hour clock, °C
CT485-CWF	100 Charts, 7 day, °F
CT485-CWC	100 Charts, 7 day, °C
CT485-CMF	100 Charts, 32 day, °F
CT485-CMC	100 Charts, 32 day, °C
CT485-CSP	120 Charts, 20 of each style
CT485-CDF-6	600 Charts, 1 day, °F
CT485-CDC-6	600 Charts, 1 day, °C
CT485-CWF-6	600 Charts, 7 day, °F
CT485-CWC-6	600 Charts, 7 day, °C
CT485-CMF-6	600 Charts, 32 day, °F
CT485-CMC-6	 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,



Specialty Paper

(All double-sided, packages of 20 charts)

(All double-sided, packages of 20 charts)				
Model Number		Description		
CT485-MW(*)		Museums/art galleries, 7 days (in °C or °F) 18.3 to 22.2 (65 to 72°F), 40 to 50% RH		
CT485-MM(*)		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(*)		Hospitals, 7 days (in °C or °F) 20 to 23.3°C (68 to 74°F), 40 to 50% RH		
CT485-HM(*)		Hospitals, 32 days (in °C or °F) 20 to 23.3°C (68 to 74°F), 40 to 50% RH		
CT485-LW(*)		Lab, clean rooms, 7 days (in °C or °F) 20 to 23.9°C (68 to 75°F), 40 to 55% RH		
CT485-LM(*)		Lab, clean rooms, 32 days (in °C or °F) 20 to 23.9°C (68 to 75°F), 40 to 55% RH		
CT485-PW(*)		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(*)		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		Wine storage 32 days, 10 to 15.6°C, 60 to 70% RH		
CT485-WMF		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, 7 days, with °C (celsius) temperature measurements,

Accessories

Model Number	Description
CT485-CABLE-6W	2 m (6') remote sensor cable, white
CT485-CABLE-6G	2 m (6') remote sensor cable, grey
CT485B-CAL-LABEL	Calibration lockout cover labels (sheet of 10)
CT485B-CLIP-KIT	Sensor clip kit
CT485-AMV-W	Analogue voltage input adaptor (cable), white
CT485-AMV-G	Analogue voltage input adaptor (cable), grey
CT485-PS	Pen set, red and blue, package of 1 each
CT485-PS-6	Pen set, red and blue, package of 6 each
CT485B-CAL-KIT	Calibration kit
CAL-3-HU	Traceable Calibration Certificate
CT485B-RP-W	White replacement probe
CT485B-RP-G	Gray replacement probe

^{*}Insert C (for °C) or F (for °F)

omega.co.uk®

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488

International +44(0) 161 777 6622

Fax +44(0) 161 777 6622

Sales@omega.co.uk

www.omega.co.uk



UNITED STATES

www.omega.com 1-800-TC-OMEGA Stamford, CT.

CANADA

www.omega.ca Laval(Quebec) 1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www. omega.co.uk Manchester, England 0800-488-488

FRANCE

www.omega.fr 088-466-342

CZECH REPUBLIC

www.omegaeng.cz Karviná, Czech Republic 596-311-899

BENELUX

www.omega.nl 0800-099-33-44



More than 100,000 Products Available!

Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

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, Pressure Transmitters, Strain Gauges, 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