

Microprocessor Based Portable Universal Circular Chart SUPERECORDER[®]

CTXL Series



NEW FEATURES!

- ✓ 3 Models Available
 - Temperature and Relative Humidity
 - Dual Thermocouple Input
 - · Dual Process Input
- Convenient Keypad **Programming from** the Front Panel
- Chart Rescaling **Through PC Interface**
- High and Low Audio and Visual Alarms
- 2 Built-In Relay Contacts
- Chart Data is Stored in **Non-Volatile Memory**
- Data Storage
- ✓ RS232 PC Interface Allows the User to Download **Recorded Data**



CTXL-TRH, £535, shown smaller than actual size

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

STANDARD FEATURES

- Available in Off-White or Charcoal Grey
- Ranges of -17 to 49°C and 2 to 98% RH (CTXL-TRH)
- ✓ Powered by 4 "D" Cell **Batteries or a Universal AC Adaptor**
- ✓ 200 mm Chart for 1-, 7-, or 32-Day Recording
- Large, Bright, Dual Backlit Display
- Monitors Min/Max/Avq Values
- Benchtop or Wall Mount with Built-In Chart Lights
- Versatile Remote Temperature/Humidity Sensor Probe Up to 12 m
- Patented Double-Sided **Chart Paper and** Magnetic Hub
- ✓ 1-, 2-, 3-Year Extended Warranties Include Extra Pens, Paper, and Batteries

MODELS COME WITH:

Sensor Probe (-TRH) and Clip 120 Assorted Double-Sided Charts 2 Sets of Pens, Extra Chart Light **Universal AC Adaptor** 4 "D" Cell Alkaline Batteries 1.8 m Extension Cable **RS232 Cable and Adaptor Wall Mounting Kit** 2-Year Warranty **Operator's Manual**



SUPERECORDER™ CTXL SERIES

Retaining the proven CT-485 design, the CTXL Series comprises state-of-the-art circular chart recorders, available in 3 models—CTXL-TRH, CTXL-DTC, and CTXL-DPR.

The CTXL-TRH is a temperature/ relative humidity chart recorder with a temperature range of -17 to 49°C and a humidity range of 2 to 98%. The CTXL-DTC is a dual thermocouple input chart recorder that accepts J, K, or T Type thermocouple probes. The CTXL-DPR is a dual-process input chart recorder that accepts 0 to 1 Vdc, 0 to 5 Vdc, 0 to 10 Vdc, 0 to 20 mA, and 4 to 20 mA inputs.

All models have dual-display backlit LCDs that show 2 inputs in real time. The charted data is stored in non-volatile memory and can be downloaded to a PC for printout. Functions include audiovisual alarms with built-in relay contacts; real-time clock; monitoring of the minimum, maximum, and average values; 1-, 7-, or 32-day recording; and chart rescaling.

The high and low alarm setpoints for the 2 channels are configurable through the front-panel keypad. There are 2 built-in relays for high alarms, and 2 additional voltage outputs power external mechanical relays for low-alarm conditions.

Patented features include doublesided chart paper and the magnetic hub. And the linear pen and chart drives make it easy to understand the charts. All models come with a stabilising arm for benchtop operation and a decorative foot cover for wall-mount applications.

For greater security, a hidden key (white box) enables/disables access to the front keypad. This will prevent unauthorised users from changing the recorder settings.

Note: Temperature/Humidity Sensor Probe Not Recommended for Use in Corrosive Environments

OMEGACARE™ extended warranty programme is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE™ covers parts, labour and equivalent loan unit.



Temperature:

Range: -17 to 49°C Accuracy: 1°C

Display Resolution: 0.1°

Relative Humidity: Range: 2 to 98% RH Accuracy: 3% RH (@ 15 to 90% RH)

Display Resolution: 1% RH Distance for Remote Probe:

12.2 m maximum

Display: Custom-made, 4-digit,

dual LCD with backlight

Display Data Sampling Rate: Once per 2 seconds

Display Modes: Max, min, avg,

T1 – T2 **Display °C**♠ **•°F Key:** Switches

between °C and °F

Display Clock: Displays the time

and date for 3 seconds

Chart Speed: 1, 7, or 32 days **Chart Response Time:**

0.5, 3.5, 16 min for 1, 7, and 32 days, respectively



Keypad Response: 350 ms **Chart Paper:** 203 mm 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

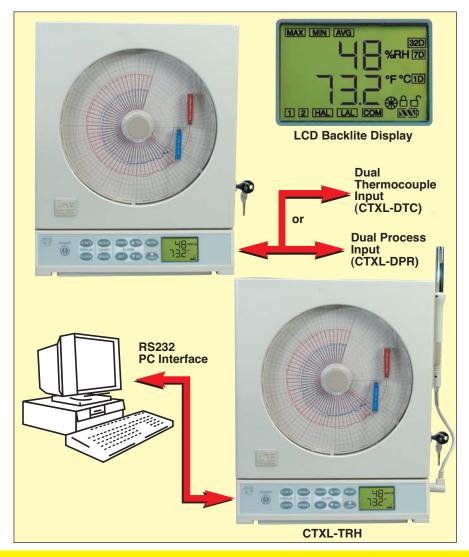
door opens

Configuration Modes: High Alarm: Channel 1

(temperature)

Low Alarm: Channel 1

(temperature)





Clock Battery Backup: Holds clock information for 14 days when main power is removed

Audible Alarm: Piezoelectric beeper Alarm Outputs: 2 separate relay contacts and 2 voltage outputs Relay Contacts: 2 A @ 30 Vdc

(high alarm)

Voltage Output: 100 mA to drive an external relay (low alarm)

Alarm Deadband: Temperature: 0.3°C Humidity: 2% RH

Operating Temperature:

0 to 49°C

Operating Relative Humidity: 2 to 98% RH

Power: 4 "D" alkaline batteries and

DC adaptor (included)

Battery Life: 3 months under

normal conditions

AC Adaptor: 100 to 240 Vac input,

9 Vdc @ 1.7 A output

Low-Battery Indicator: Icon on LCD **Serial PC Communications:** RS232, 2-way, 9600 baud

Memory: 256K EEPROM (2.8 times

worth of chart 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 benchtop use

Case: Rugged ABS Plastic

Dimensions:

33.5 H x 27.1 W x 6.7 cm D Weight: Approx. 3.2 kg with

batteries

SPECIFICATIONS (Dual-Process Input CTXL-DPR)

Inputs: 0 to 1 V, 0 to 5 V, 0 to 10 V,

4 to 20 mA, 0 to 20 mA

Input Connection: Wire connection

Under- or Over-Range Input:

Display

will show "----" for current input Standard Chart Scale: 0 to 100% SPECIFICATIONS (Dual Thermocouple Input CTXL-DTC)

Display Range:

Type K: -100 to 1000°C Type J: -100 to 700°C **Type T:** -100 to 300°C

Display Accuracy:

Type K: 2°C Type J: 1.5°C Type T: 1.5°C

Standard Chart Scale:

Type K: -40 to 560°C **Type J:** -40 to 260°C **Type T:** -40 to 160°C

Input Connection: Universal

connector

T/C Break Indication: Display will

show "Prb Err'

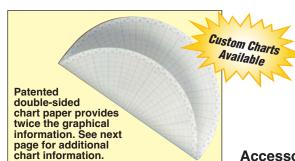
Display Modes: Max, min, avg, T1 – T2

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)					
Model Number	Price	Description			
CTXL-TRH-W	£535	White temperature/relative humidity recorder with 2 built-in relays			
CTXL-TRH-G	535	Grey temperature/relative humidity recorder with 2 built-in relays			
CTXL-DTC-W	535	White dual thermocouple input recorder with 2 built-in relays			
CTXL-DTC-G	535	Grey dual thermocouple input recorder with 2 built-in relays			
CTXL-DPR-W	535	White dual process input recorder with 2 built-in relays			
CTXL-DPR-G	535	Grey dual process input recorder with 2 built-in relays			

Complete with 120 assorted double-sided charts, 2 sets of pens, 1.8 m remote sensor cable, wall mounting kit, 4 "D" cell batteries and 9 V universal AC adaptor.

Ordering Example: CTXL-TRH-W, white temperature/relative humidity chart recorder (£535), and CT485-CWF, package of 100, 7-day, °F temperature charts (£12.75), £535 + 12.75 = £547.75. OCW-3 OMEGACARE™ extends standard 2-year warranty to a total of 5 years (£135), £547.75 + 135 = £682.75.



Each unit includes one Free sample pack of different charts:

Model No.	Sample Pack Included		
CTXL-TRH	CT485-CSP, 120 charts		
CTXL-DTC	CTXL-CSP-T, 150 charts		
CTXL-DPR	CTXL-CSP-P, 120 charts		



Accessories

Model Number	Price	Description	
CTXL-CABLE-6	£10.00	1.8 m extension cable	
CTXL-CABLE-10	16.75	3 m extension cable	
CTXL-CABLE-25	27.00	7.6 m extension cable	
CTXL-CABLE-6-S	10.00	1.8 m analogue cable, stripped leads	
CALIBRATION	90.00	Traceable calibration	
CT485B-CAL-KIT	50.00	Calibration kit	
CT485-PS	6.70	Pen set, red and blue, pack of 1 each	
CT485-PS-6	35.00	Pen set, red and blue, pack of 6 each	
CT485B-CLIP-KIT	3.40	Sensor clip kit	

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 right)

Charts

Model Number	Price	Description	
CTXL-DTC-R1-CD	£12.75	100 charts, 1 day -40/1040°F (-40/560°C)	
CTXL-DTC-R1-CW	12.75	100 charts, 7 day -40/1040°F (-40/560°C)	
CTXL-DTC-R1-CM	12.75	100 charts, 32 day -40/1040°F (-40/560°C)	
CTXL-DTC-R2-CD	12.75	100 charts, 1 day -40/500°F (-40/260°C)	
CTXL-DTC-R2-CW	12.75	100 charts, 7 day -40/500°F (-40/260°C)	
CTXL-DTC-R2-CM	12.75	100 charts, 32 day -40/500°F (-40/260°C)	
CTXL-DTC-R3-CD	12.75	100 charts, 1 day -40/320°F (-40/160°C)	
CTXL-DTC-R3-CW	12.75	100 charts, 7 day -40/320°F (-40/160°C)	
CTXL-DTC-R3-CM	12.75	100 charts, 32 day -40/320°F (-40/160°C)	
CTXL-DPR-CD	12.75	100 charts, 1 day, 0 to 100%	
CTXL-DPR-CW	12.75	100 charts, 7 day, 0 to 100%	
CTXL-DPR-CM	12.75	100 charts, 32 day, 0 to 100%	
CTXL-BLANK-CD	12.75	100 charts, 1 day, blank scale	
CTXL-BLANK-CW	12.75	100 charts, 7 day, blank scale	
CTXL-BLANK-CM	12.75	100 charts, 32 day, blank scale	
CTXL-CSP-T	12.75	150 charts, sample pack temperature	
CTXL-CSP-P	12.75	120 charts, sample pack process	
CT485-CDF	12.75	100 charts, 1 day am/pm, °F	
CT485-CDC	12.75	100 charts, 1 day am/pm, °C	
CT485-C24F	6.70	20 charts, 24-hour clock, °F	
CT485-C24C	6.70	20 charts, 24-hour clock, °C	
CT485-CWF	12.75	100 charts, 7 day, °F	
CT485-CWC	12.75	100 charts, 7 day, °C	
CT485-CMF	12.75	100 charts, 32 day, °F	
CT485-CMC	12.75	100 charts, 32 day, °C	
CT485-CSP	12.75	120 charts, 20 of each style	
CT485-CDF-6	59.00	600 charts, 1 day, °F	
CT485-CDC-6	59.00	600 charts, 1 day, °C	
CT485-CWF-6	59.00	600 charts, 7 day, °F	
CT485-CWC-6	59.00	600 charts, 7 day, °C	
CT485-CMF-6	59.00	600 charts, 32 day, °F	
CT485-CMC-6	59.00	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, £59.00.

Specialty Paper (All double-sided, packages of 20 charts)

Model No.	Price	Description
CT485-MW(*)	£13.50	Museums/art galleries, 7 days (in °C or °F) 18.3 to 22.2°C (65 to 72°F), 40 to 50% RH
CT485-MM(*)	13.50	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(*)	13.50	Hospitals, 7 days (in °C or °F) 20 to 23.3°C (68 to 74°F), 40 to 50% RH
CT485-HM(*)	13.50	Hospitals, 32 days (in °C or °F) 20 to 23.3°C (68 to 74°F), 40 to 50% RH
CT485-LW(*)	13.50	Labs, clean rooms, 7 days (in °C or °F) 20 to 23.9°C (68 to 75°F), 40 to 55% RH
CT485-LM(*)	13.50	Labs, clean rooms, 32 days (in °C or °F) 20 to 23.9°C (68 to 75°F), 40 to 55% RH
CT485-PW(*)	13.50	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(*)	13.50	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	13.50	Wine storage, 32 days, 10 to 15.6°C, 60 to 70% RH
CT485-WMF	13.50	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 temperature measurements, £13.50.



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