

Portable Universal Circular Chart Recorder

5 Models Available



PATENTS PENDING

**Choice of White
or Gray to Meet
Your Needs!**

5 Models Available!

- 1 Temperature/Humidity with Wired Probe
- 2 Temperature/Humidity with Remote Wireless Probe
- 3 Dual Process-Voltage or Current
- 4 Dual Thermocouple
- 5 pH/Temperature

CTXL Series



- ✓ Large, 200 mm (8") Scale
- ✓ 1, 7 or 32 Day Recording
- ✓ Easy to Read Dual Channel Backlit LCD Readout
- ✓ Convenient Front Panel Programming/Operation
- ✓ Monitors Min/Max/Avg Values
- ✓ High/Low Audible/Visual Alarms
- ✓ Dual High Alarm Relays, Dual Low Alarm Voltage Outputs
- ✓ Double Sided Charts with Magnetic Mount Hub
- ✓ Benchtop or Wall Mount with Built-In Chart Lights
- ✓ Powered by 4 D Batteries or Universal AC Adaptor
- ✓ Data Logging PC Software Available Online
- ✓ RoHS 2 Compliant



**Large 200 mm
(8") 2-Sided
Chart**

**CTXL-TRH recorder
shown smaller than
actual size.**

The CTXL Series circular chart recorders from OMEGA combine form and function in an easy to use two-channel circular chart recorder with a large, 200 mm (8") diameter chart, and dual channel LCD readout. Depending on your application, the CTXL is available to measure ambient temperature and humidity (with an available wireless option capable of up to 90 m (300') (line of sight), dual thermocouple, dual process (1 V, 5 V, 10 V, or 0/4 to 20 mA), or pH/temperature.

The CTXL has a custom LCD readout that displays the current values of both channels, and can indicate the min, max or average input values as well. The display also indicates the chart speed (1, 7 or 32 day), battery status, high and low alarm indication, keypad lockout status, and battery life. Additional features of the CTXL include dual relays with contact closures for high alarms, and dual voltage outputs for low alarms to drive external relays. A built-in audible

buzzer also informs the user of an alarm condition. A hidden key (White Box) can lockout unauthorized access to the front keypad, preventing changes to the recorder settings.

The CTXL features a rugged, ABS enclosure, suitable for industrial environments, but it's also intended to fit right in to other environments, such as museums, art galleries, computer rooms, labs, clean rooms, even hospitals. The CTXL is designed for both benchtop and wall mount operation; a convenient base rotates out of the way, and is hidden by a decorative foot cover for wall mount use.

Each unit comes complete with 120 assorted double-sided charts, 2 pen sets, extra chart light, universal ac adaptor, 4 "D" cell alkaline batteries, RS232 cable and adaptor, wall mounting kit, and quick start manual. CTXL-TRH models are also supplied with sensor probe and clip, and 1.8 m (6') probe extension cable.

† Refer to accessories chart for NIST calibration ordering information.

Temperature/Relative Humidity Recorder

Choice of White or Gray to Meet Your Needs!

Large 200 mm (8") 2-Sided Chart

MODEL #1 CTXL-TRH



Optional†

- ✓ -17 to 49°C (2 to 120°F) and 2 to 98% RH Ranges
- ✓ Detachable Sensor Probe for Direct Attachment or Remote Mounting
- ✓ Available Wireless Sensor Model
- ✓ Windows-Based PC Data Logging Software Available Online
- ✓ Specialty Chart Papers Available for Custom Applications
- ✓ Benchtop or Wall Mount with Built-In Chart Lights
- ✓ RoHS 2 Compliant



PATENTS PENDING

CTXL-TRH recorder, shown smaller than actual size.

The CTXL-TRH recorder is designed for both local and remote monitoring of temperature and relative humidity. The standard sensor probe clips to the side of the unit, or may be detached and mounted up to 12 m (40') away, using available extension cables. For even longer distances, the recorder is available with a wireless probe, which can be placed up to 90 m (300') line of sight, or 33 m (110') indoors away from the recorder. Simply plug-in the wireless receiver in place of the probe into the recorder, and you're ready to go.

The CTXL-TRH is available with specialty paper charts, with optimal ranges marked right on the chart, so you can easily see from a distance that the temperature and humidity readings are within range.

A Windows-based application program allows the user to monitor

the temperature and relative humidity using their PC (software is available online). You can log the data to a file, as well as display the information on a custom on-screen chart; set the alarms on the recorder, and display their status on-screen. You can also re-scale the recorder chart paper, setting temperature and %RH limits anywhere within the range of the unit. This allows you to use the 8" chart to display narrow temperature and humidity bands, for greater resolution.

Specifications

(See Common Specifications on Page S-44)

Temperature:

Range: -17.7 to 49°C (0 to 120°F)

Display Accuracy: ±1°C (2°F)

Chart Accuracy: ±1.5°C (3°F)

Display Resolution: 0.1° (F or C)

Relative Humidity:

Range: 0 to 98% RH

Display Accuracy: ±3% RH, 15 to 90% RH @ room temperature; ±5% RH, <15 or > 90% RH @ room temperature

Chart Accuracy: ±4% RH, 15 to 90% RH, ±6% RH, <15 or >90% RH

Display Resolution: 1% RH

Remote Probe:

12.2 m (40') max distance

Temperature/Humidity Sensor: Digital sensor

Probe Disconnect: Pens will go to the Home position; Display will show "Prb Err". Chart motor will continue to run

Alarm Set Point Resolution:

Temperature: 0.5°C or °F

Humidity: 1%RH

Alarm Deadband:

Temperature: 0.5°C or °F

Humidity: 3% RH

† Refer to accessories chart for NIST calibration ordering information.