

# CTR-25



PORTABLE LIQUID  
CALIBRATION BATH  
(-25°C TO 140°C)

The Kaye CTR-25 is the latest addition to our complete line of advanced calibration dry blocks and baths designed to address the specific needs of thermal validation.

The CTR-25 was designed to address portability, capacity, speed and accuracy requirements not normally found in competitive liquid baths.

The CTR-25 is ideally suited for verifications of up to 10 Kaye ValProbe or ValProbe RT loggers as well as various sized process sensors.

Onboard firmware enables automatic real-time verification of RT (real-time) ValProbe Loggers or manual verifications of standard ValProbe loggers.

Having a portable, rugged, accurate liquid bath allows customers to easily perform periodic verifications of their loggers which greatly minimizes risk associated with waiting for yearly factory calibrations.

## FEATURES & BENEFITS

- Wide temperature range from -25°C to 140°C
- Excellent stability of 0.01°C/uniformity of up to 0.02°C
- Fast heating and cooling times
- Verification of up to 10 rigid ValProbe loggers or any kind of data loggers
- Firmware supports automatic/manual verifications of ValProbe loggers
- Comes with a special designed fixture to easily hold 10 loggers and one IRTD
- Compact, portable design for easy carrying or shipping (20kg/44lbs)
- Compressor free unit – operates with modern Peltier technology
- Stainless steel casing withstands harsh sterilizing chemicals
- Universal power supply 110/240 VAC – 50/60 Hz
- Large front panel display with intuitive controls
- Large 2.5l tank with up to 6" (15,24cm) depth can accommodate wide range of sensor types

# Calibrate more sensors at a time!

The CTR-25's broad temperature range allows it to be used for calibration or verification of validation or process sensors for a wide variety of applications:

- steam-in-place process (122 °C to 140 °C)
- autoclave sterilization (121 °C to 135 °C)
- pharmaceutical bioreactors (-10 °C to 100 °C)
- storage freezers (-25 °C)

## EASY TO USE AND MAINTAIN

The CTR-25 features a large color display that indicates date and time, bath fluid temperature, setpoint temperature, control indicator when the fluid is at setpoint, and heating status. A ready indicator changes color to green, giving you clear visual indication when the bath fluid has reached its setpoint temperature and is ready for you to start making measurements.

Rugged durable carrying handle and stainless steel gasketed transport cover make the CTR-25 easy to transport and move between processes. Fluid spills create mess and potential safety hazards.

The CTR-25 includes an overflow tube that directs excess bath fluid into an overflow container for expanding bath fluid. A drain tube makes it easy to remove bath fluid for replacement or transport. The included ValProbe logger fixture provides maximum capacity (10) and easy handling of loggers.



# CTR-25 Specifications

## TEMPERATURE SPECIFICATIONS

Range (at 25°C ambient temperature)	-25°C to 140°C (closed cover)
Display accuracy	0.1°C
Display resolution	0.01°C
Stability	0.01°C
Typical uniformity	0.02°C
Repeatability	0.04°C
Typical heating time	-25° to 25°C: 35 minutes 25°C to 140°C: 55 minutes
Typical cooling time	140°C to 25°C: 45 minutes 25°C to -25°C: 75 minutes
Typical settling time	10 minutes

## GENERAL SPECIFICATIONS

Size	Height: 382mm (15 in) Width: 242mm (9.5 in) Depth: 400mm (15.7 in)
Weight	20 kg (44 lb)
Fluid volume	2.5 liters (0.66 gallons)
Fluid working area	75mm x 75mm (3 in x 3 in)
Maximum fluid depth	154mm (6.1 in)
Factory calibration	NVLAP accredited calibration certificate
Remote Interface	RS-232 port./USB 2.0 device port/USB 2.0 host port
Supply Voltage	115V - 50 or 60 Hz/ 230V - 50 or 60Hz
Power consumption	Max 1150 W



## CTR-25

### PART NUMBER

X0410 (115V)  
X0410-E (230V)

### DESCRIPTION

- Portable calibration bath, -25 °C to 140 °C
- Fixture for 10 rigid ValProbe Loggers
- Fluid overflow tank
- Access cover-no holes
- Access cover-with probe holes
- Kaye firmware supporting automated calibration
- Communication cable
- Power cord
- Calibration certificate
- User manual



## ACCESSORIES

412-3068

Stainless steel transport cover



412-3069

Stainless steel Probe access cover



412-3070

Adjustable Probe holding fixture



412-3071

Single Probe Clamp Kit



441-1062

Transportation case



V0835

Silicone oil (3.8l) -25 °C to 140°C



### Kaye Representative contact:

[www.kayeinstruments.com/en/contact](http://www.kayeinstruments.com/en/contact)

### Request a demo:

[www.kayeinstruments.com/en/demo](http://www.kayeinstruments.com/en/demo)

#### EUROPE, MIDDLE EAST, AFRICA AND ASIA

Amphenol Advanced Sensors Germany GmbH  
Sinsheimer Strasse 6  
D-75179 Pforzheim  
T: +49 (0) 7231-14 335 0  
F: +49 (0) 7231-14335 29  
Email: [kaye@amphenol-sensors.com](mailto:kaye@amphenol-sensors.com)

#### USA/AMERICAS

Amphenol Thermometrics, Inc.  
967 Windfall Road  
St. Marys, PA 15857  
T: +1(814) 834-9140  
F: +1(814) 781-7969  
Email: [kaye-us@amphenol-sensors.com](mailto:kaye-us@amphenol-sensors.com)

#### INDIA

Amphenol Interconnect India Pvt Ltd.  
Plot no. 6, Survey No.64 | Software Units layout  
MAHAVEER TECHNO PARK  
HITECH CITY, Madhapur | Hyderabad,  
Telangana – 500081 | T: +91 40 33147100  
Email: [kaye-india@amphenol-sensors.com](mailto:kaye-india@amphenol-sensors.com)

#### CHINA

Amphenol (Changzhou) Connector  
Systems Co., Ltd, Building 10,  
Jintong Industrial Park, No. 8 Xihu Road,  
Wujin High-Tech Development Zone,  
Changzhou, Jiangsu 213164  
T: 0086-519-83055197

# KAYE

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[www.kayeinstruments.com](http://www.kayeinstruments.com)

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