

CTR-25



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

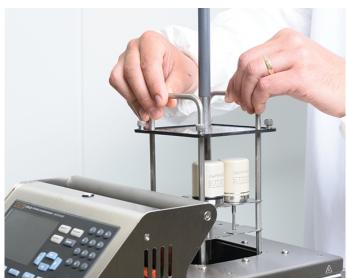
TEMPERATURE SPECIFICATIONS

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°: 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 (3.8I) -25 °C to 140°C







Kaye Representative contact:

Request a 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

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

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

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



Warranty and disclaimer: The information mentioned on documents are based on our current tests, knowledge and experience. Because of the effect of possible influences in an application of the product, they do not exempt the user from their own tests, checks and trials. A guarantee of certain properties or a guarantee for the proper suitability of the product for a specific, especially permanent application can not be derived from our data. Liability is therefore excluded to that extent permitted by law. Any proprietary rights of third parties as well as existing laws and regulations must be observed by the recipient of the product on his own responsibility.