

Kaye ValProbe RT 5-Channel Datalogger with Bendable Sensors

MAXIMIZED EFFICIENCY WITH 5-CHANNEL TECHNOLOGY AND FLEXIBLE SENSORS



The real-time Kaye ValProbe RT data loggers, obtainable in one and two sensor versions, are now also available with five sensors in conjunction with bendable probes.

The advanced electronics of the loggers, in combination with the PT-1000 Sensors, achieve an accuracy of up to 0.10°C, while also facilitating extended battery life. This logger supports up to 100,000 samples per measurement channel, thus allowing for a total of up to half a million data points per device.

Retaining the proven dual antenna technology already used throughout the Kaye ValProbe RT series ensures seamless data transfer. This applies even under difficult

measuring conditions, such as in a closed stainless-steel container.

This newly developed 5-channel real-time data logger can be used for all applications from 0°C to 400°C. Combined with an equally optimized insulating canister that uses vacuum technology, it can also be used for applications over 140°C. This establishes it as the ideal data logger for usage in hot air tunnels, catering to those who prefer not to compromise on real-time data, even in such applications. Thus, the time-consuming and admittedly cumbersome installation and updating of, for example, thermocouples as measurement sensors is eliminated. The expansion to 5 measurement channels per logger

also reduces the introduction of disturbing mass into the sterilization tunnel by the measuring equipment itself. This has the additional side effect of significant cost savings, as fewer data loggers and canisters are needed. Of course, this is accomplished without compromising the accuracy of measurements.

The additionally reduced sensor diameter of the flexible sensor of only 1.6mm (0.063") offers a balanced mix of flexibility and stability. This ensures optimal insertion and secure positioning of the sensor tip even in small vials.

TECHNICAL SPECIFICATIONS

- 5-Channel Data Logger
- 100,000 records per channel
- Temperature range: 0 – 400°C
- Measurement accuracy:
 - 0-140°C: 0.1°C
 - 140-400°C: 0.25°C
- Cable Diameter: 1.6mm (0.063")
- Probe tip Diameter: 2.0mm (0.078")
- Standard probe length: 61cm (24")
- Supported from Kaye ValProbe RT Software version 1.2 and onwards

APPLICATIONS

In addition to the previously mentioned application in hot air tunnels, the wide temperature range combined with 5 measurement channels per data logger enables cost-optimized applications in other areas. The properties already mentioned, such as introducing less disturbing mass in connection with the 5-channel technology are also advantageous in the qualification of hot air cabinets or high temperature ovens.

The qualification of CO₂ incubator sterilization at 180°C also benefits from these qualities, cost optimization through a reduced number of necessary data loggers and the secure transmission of measured real-time data. The application in the area of cleaning unit qualification (Washer Disinfectors) is also possible, as is its use in a small sterilizer.

- Sterilization Tunnels
- Hot air cabinets/ High-temperature ovens
- CO₂ Incubators
- Water-Cascade Autoclaves
- Steam Sterilizer
- Cleaning and Disinfection equipment
- Fermenters
- Drying Ovens
- Climate Chambers



Kaye representative contact:

Request a demo:

EUROPE, MIDDLE EAST, AFRICA AND ASIA
 Amphenol Advanced Sensors Germany GmbH
 Sinzheimer 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



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