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Kaye ValProbe® RM Wireless Datalogger System

REAL-TIME DATALOGGER SYSTEM FOR GXP-REGULATED ENVIRONMENTS

The Kaye ValProbe RM is a 2.4 GHz real-time wireless data logger platform for pharmaceutical and biotech use. It operates with ValProbe RT devices on a single shared software platform to provide a flexible, scalable validation solution across sites and workflows.

The ValProbe RM and RM-B are wireless, battery-powered loggers built for validation and monitoring in GxP-regulated environments. They accept interchangeable digital sensor modules (temperature, humidity, etc.); sensors are field-replaceable and retain their own calibration data to simplify maintenance and ensure consistent accuracy.
Each logger stores up to 100,000 time stamped readings per sensor, with user-configurable intervals from 10 seconds to 10 minutes and programmable start/stop conditions. All data, calibration parameters, and logger configuration are kept in non volatile memory and retained until a new study is started; when memory is full the device ceases recording but preserves all previous records.

Designed for robust operation, the ValProbe RM family supports real time wireless transmission while also maintaining data in the logger. All data is processed and reported through the ValProbe software platform to meet high standards of data integrity and regulatory compliance.

KEY FEATURES

- **Advanced Wireless Architecture:** Proprietary dual-antenna star network for robust communication
- **Scalable System Design:** One base station supports up to 50 loggers with ~300 m line-of-sight range
- **Flexible Sensor Configuration:** Supports temperature, humidity, and other digital sensor modules
- **High Data Capacity:** Up to 100,000 samples per sensor stored locally
- **Smart Sensor Management:** Calibration data stored directly in each sensor; Automatic sensor recognition with e-signature tracking
- **Maximum Data Reliability:** Large onboard memory, gateway buffering, and power redundancy prevent data loss
- **Cost Optimization:** Modular design and RM-B variant reduce capital and maintenance costs
- **Product Variants:**
  - ValProbe RM: with local display
  - ValProbe RM-B: display-free, cost-optimized

APPLICATONS

- Environmental chambers
- Warehouses
- Cold storage (refrigerators and freezers)
- Stability testing environments

SPECIFICATIONS

- **Base Station Dimensions:** 190 mm (L) x 130 mm (W) x 55 mm (H) / 7.48 in (L) x 5.12 in (W) x 2.17 in (H)
- **Logger Dimensions:** 118 mm (L) x 81 mm (W) x 36 mm (H) / 4.65 in (L) x 3.19 in (W) x 1.42 in (H)
- **Logger Material:** ABS
- **Battery:** Field-replaceable 3.6V lithium battery
- **Sampling Rate:** Starting at 10 sec
- **Data Storage:** 100,000 samples per sensor retained in non-volatile memory
- **Real-Time Clock Accuracy:** < 10 sec/day
- **Calibration:** NVLAP (Lab Code 200913-0) / DAkkS calibration
- **Verification:** Automated user temperature verification
- **Sensing Element:** Precision platinum RTD
- **Environmental Temperature:** -25°C to 60°C
- **Environmental Humidity:** 0–95% non-condensing
- **Regulatory Compliance:** UL and CE
- **RF Range:** Up to 300 meters
- **Max. Sensor Temperature Range:** -196°C to 200°C
- **Samples per Sensor:** Up to 100,000
- **Data Transmission Rate:** 10 seconds to 30 seconds
- **ValProbe System Capacity:** Up to 50 loggers
- **Batteries:** Customer-interchangeable batteries
- **Accuracy:** Up to 0.1°C

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Request a demo:
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