

ValProbe® RM - Wireless System

RELIABLE, SCALABLE, GXP-READY WIRELESS
DATA LOGGER PLATFORM WITH FLEXIBLE DIGITAL
SENSORS AND ROBUST DATA PROTECTION

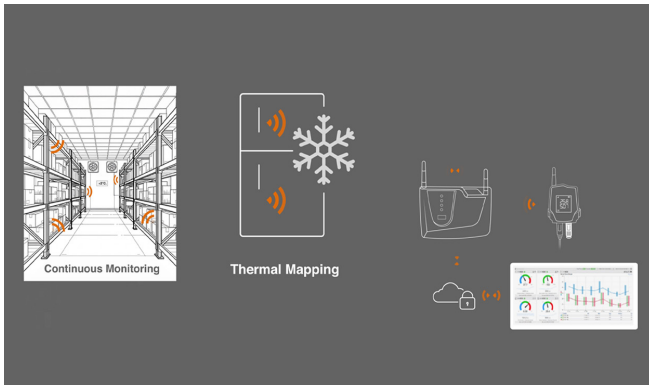


The Kaye ValProbe RM system is a 2.4 GHz, real-time wireless data-logger platform purpose-built to meet the stringent environmental monitoring, data integrity, and regulatory demands of pharmaceutical and biotech facilities. The compact ValProbe RM logger accepts two digital sensor modules for flexible multi-parameter monitoring (temperature, humidity, etc.), provides a large local buffer that preserves up to ~69 days of samples per sensor at 1 minute intervals, and supports automatic mains to battery switchover to maintain uninterrupted

operation during power loss. Built on a proprietary dual antenna star network with Ethernet networked gateways, the platform scales across facilities and integrates with Kaye LabWatch IoT for centralized archiving, alarms, and management. Per sensor calibration offsets, automatic sensor change detection with eSignature capture, tamper evident controls, and end to end encryption simplify maintenance and support GxP compliance, while an RM-B (display free) variant offers a cost effective option where a local display is not required.

KEY FEATURES

- 2.4 GHz ValProbe platform with proprietary dual-antenna star-network architecture.
- Single base station supports up to 50 loggers; ~900 ft (300 m) line-of-sight range per logger (actual range depends on environment).
- Two digital sensor ports per logger for temperature, humidity, and other digital sensor modules.
- Local data buffering: up to 100,000 samples per sensor (~69 days at 1 minute intervals); gateway retains an additional 30 days.
- Mains operation with automatic battery switchover; logger and gateway protect data during power or network interruptions.
- Per-sensor calibration offsets stored on the sensor module; hot-swap replacement detected automatically.
- e-signature capture and tamper-evident / tamper-resistant controls to support GxP workflows.
- End-to-end data protection: encryption in transit and at rest, device authentication, secure key management, and configurable access control.
- Integration-ready: Ethernet-networked gateways and LabWatch IoT compatibility; selected RF approvals for major markets.
- Product variants: ValProbe RM (with display) & RM-B (display-free, lower cost).



The perfect solution for continuous monitoring or thermal mapping

BENEFITS

- Regulatory readiness: Designed to support GxP data integrity (traceability, non repudiation) and auditability.
- High availability and data resilience: Large local buffers, gateway retention, and automatic power fallback minimize data loss.
- Accurate, maintainable measurements: Digital sensors with stored calibration offsets enable fast, no downtime swaps and consistent accuracy.
- Facility scale coverage: Ethernet-connected gateways and robust RF design simplify scaling across production and storage areas.
- Improved security and access control: Strong encryption, authentication, and audit trails protect sensitive monitoring data.
- Lower operating cost and simple serviceability: RM-B option and modular sensors reduce capital and maintenance expense; ISO/IEC 17025 recalibration available.
- Faster compliance and maintenance workflows: Automatic sensor-change detection plus e-signatures streamline documentation and regulatory review.

APPLICATIONS

- Environmental chambers
- Warehouses
- Freezers
- Refrigerators

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Request a demo:

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