

# Kaye LabWatch™

## Multi Temperature Channel RF ValProbe®

The Kaye RF ValProbe integrates the powerful RF Wireless Mesh Technology with the well established LabWatch facilities and environmental monitoring software solution from GE Sensing.

The Kaye RF ValProbe system is intended for the monitoring of environmental chambers and storage areas (i.e. stability chambers, freezers, refrigerators, warehouses etc). The RF ValProbe system utilizes a 2.4 GHz RF Mesh network, and multiple-redundant data storage capability to provide ultra-reliable and robust communications and storage of critical facility data. Additional safeguards and encryption guarantee data integrity, storage and compliance with regulatory requirements.

When integrated with the Kaye LabWatch system, the RF ValProbe provides the complete sensor hardware solution comprising RF wireless loggers and RF base station. Wireless loggers will act as automatic RF wireless routers.



### Features

- RF Wireless Mesh Networking technology provides reliable real-time process data, using the global 2.4 GHz RF frequency band.
- Provides high reliability RF transmission and data storage and redundancy should the PC or RF communication network fail.
- Provides connection for up to five 3-wire or 4-wire 100Ω RTDs.
- Long battery life supplied by, easily replaceable, standard Lithium AA batteries.
- OPC Server supports automatic detection and configuration of wirelessly connected sensors.
- Up to 0.1°C temperature accuracy, depending on RTD specifications, cable length and calibration points.



# RF ValProbe Specifications

## Environmental

- Body: -40°C to 60°C (-72°F to 140°F)  
0 to 95%RH non condensing
- Probe: Up to five 4-wire or 3-wire 100Ω RTD  
from -200°C to 260°C. See Ordering Information.
- Dimensions: 190 mm x 127 mm x 45 mm  
(7.5 in x 5 in x 1.75 in)

## Temperature

(Depending on Calibration)

Range	0°C to 60°C :	0.1°C
	-22°C to 0°C:	0.2°C
	-80°C to -22°C:	0.5°C
	-196°C:	2.0°C

## Battery Life (Varies ±10%)

1 min sample rate: 8000 hours

## Ordering Information

X2575M	RF ValProbe with connections for up to 5 RTD sensors
237-062M-15	Multi-Logger Temp Probe 15ft long -45°C to 260°C
237-062M-30	Multi-Logger Temp Probe 30ft long -45°C to 260°C
237-063M-15	Multi-Logger Temp Probe 15ft long -200°C to 260°C Low Temp Probe
237-063M-30	Multi-Logger Temp Probe 30ft long -200°C to 260°C Low Temp Probe
X2558M	RF ValProbe base station, connects the PC via Ethernet or USB to the RF wireless mesh network

*If different size probes are required, please consult with the factory.*

## LabWatch Integration

The Kaye LabWatch software provides a user friendly and compliant interface to all the RF ValProbe sensor hardware, including the 5 channel version.

The software supports a number of features critical to regulatory compliant monitoring applications:

- Secure, tamperproof data files enabling compliance with 21 CFR Part 11
- Onscreen calibration utilities, optional traceable calibration of sensor hardware prior to installation
- Real time battery monitoring and alarming on low battery conditions
- Automatic configuration via provided OPC server of connected sensor hardware for all RF ValProbe types

## Services

GE Sensing provides a complete range of services for the Kaye LabWatch and RF ValProbe product range:

- Factory and onsite configuration of LabWatch including sensor hardware
- Onsite installation, commissioning and validation of LabWatch installation
- Factory and onsite calibration
- Operator training and technical support
- Maintenance agreements including onsite calibration and repair
- Rental services



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