Kaye ValProbe®

Cryo Temperature Logger with thin and very flexible sensor

The new Cryo Logger with the very thin and flexible tip is the perfect datalogger for an extended temperature range from -85°C to +140°C. The Logger provides a single solution for a variety of applications, such as cryogenic chambers, Lyophilizers, ultra-low freezers and other deep temperature applications. It is also perfect to be used in autoclaves and other high temperature applications.

It is a single solution that provides significant cost savings and productivity gains. RTD Technology delivers unrivalled measurement accuracy. The new logger design improves the battery life by three times over the existing design and is fully compatible with existing multi channel and single readers operating seamlessly with the ValProbe 1.6 software.

The new flexible Cryo Logger is designed for easy on-site user verification between studies with the traditional IRTD and low temp CTR-80 Bath or LTR-90 dry well.

The small and flexible sensor of the logger allows a usage in most of the Pharma applications and it can also be used in combination with very small vials.

ValProbe satisfies FDA Regulation 21 CFR Part 11 requirements for electronic signatures and records and complies with EN 554 for saturated steam sterilization.

Features

- Temperature range for complete Logger: -85°C to 140°C
- Battery Life: 3x better than standard ValProbe Logger
- 1 m long and 1.8 mm thin robust flexible sensor with 2.2 mm Teflon Tip

Applications

- Cryogenic Vessels
- Freeze Dryer
- Freezers
- Incubators
- Warehouses
- Sterilizers/Autoclaves

Data Loggers Specifications

Sensing Element	Precision Platinum RTD
Measurement Range and Accuracy	0˚C to 140˚C, ±0.1˚C -85˚C to 0˚C, ±0.25˚C
Environmental Temperature Humidity Pressure	-85˚C to 140˚C 0% to 100% humidity, condensing 0 to 5 bar absolute (0 to 130 psia)
Logger Material	316L stainless steel
Logger Base Dimensions	1 13/16 in. x 1 3/8 in. diameter (46 mm x 35 mm)
Battery	Field-replaceable 3.6 V lithium thionyl chloride
Sampling Rate	1 second to 12 hours
Data Storage	10,000 samples retained in non-volatile EEPROM memory
Calibration	Factory calibrated (NVLAP/DAkkS accredited) with user calibration capability
Real Time Clock Accuracy	15 seconds per 24 hours (0.0174%)
Sensor	Flexible Teflon Cable
Total Length (sensor + cable)	40 in. (100 cm)
Cable Diameter	0.07 in. (1.8mm)
Teflon Tip	Length: 1 in. (25mm) Diameter: 0.087 in. (2.2mm)
Part Number	XCFVP-40

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