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## **XpertLog<sup>®</sup> Thermal Mapping System**



*Accuracy & Reliability in Thermal Mapping*

## Lives International – XpertLog System



### **Ease of Use:**

The XpertLog loggers are made of Ketron Peek 1000 plastic resin (FDA approved). The advantage over steel logger is significant. Stainless steel loggers will retain and radiate heat which can create "hot spots" when validating a chamber. Without proper precautions, the temperature measurements can exhibit significant error. With XpertLog, there is no retention of heat or radiation effects to be concerned about. Also, the loggers are lightweight, chemically resistant, and shock absorbent. Download of data from loggers is more than twice as fast as competitor loggers. The software functions are very similar to the intuitive methods used in the XpertVal system. This includes the automated control of calibrators, verifications and reports. The XpertLog system is fully validatable (IQ & OQ) and CFR part 11 compliant.

### **Versatility:**

The XpertLog system of loggers can be used for a wide range of applications. They are particularly advantageous over a hardwired system when used in steam sterilizers, autoclaves, freeze dryers, incubators, large walk-in chambers and warehouses. The temperature logger can be used from -80C to 140C without thermal shield or -110C to 350C with a thermal shield. You can also use the loggers in refrigerators and freezers including -80C cryo-freezers (24 hour study). The temperature logger can have a 20 inch flexible probe for use in penetration or distribution studies. The flexible probe option will allow you the convenience of using a standard dry bath calibrator rather than an oil bath. Loggers are available for single temperature, humidity (20 to 90% RH) or pressure (0 to 5 bar absolute) measurements. They are also available with temperature/humidity or temperature/pressure combinations.

The XpertLog Software supports a multi-level platform of hardware so you can use your existing investment of reference probes and temperature baths. The software supports:

- Reference Probes: Lives, GE-Kaye IRTD, and Hart
- Temperature Baths: Lives, GE-Kave (LTR, HTR, or CRT-80) and Hart



## Technical Specifications:

Loggers :	Temperature Pressure Humidity	PT-100, 4 wires High accuracy : 0 to 5 bar abs Capacity
Range : & accuracy	- Temperature - Pressure - Humidity	-60 to +140°C (continuously) ± 0.1°C -110 to 350°C (shield) ± 0.1°C 0 to 5 bar absolute ± 5 mbar 20 to 90 %RH ± 2 %RH
Material :		Ketron Peek –FDA compliant
Battery		Lithium, user replaceable
Leak free		IP-68
Data collection interval		1 second to 24 hours
Memory		16 000 data points
Internal watch accuracy		< 1 second / month
Weight		35, 40 or 70 g (battery included)
Calibration		COFRAC / NIST traceable ITS-90 coefficients included

## Docking Station :

- High speed communication
- Customizable : 4, 8, 12
- Reduced dimensions
- Simultaneously programming of unlimited number of loggers



## Applications :

- Autoclaves
- Freeze dryer
- Ovens / Stability chambers
- Freezers, Refrigerators
- Cold rooms
- Sterilization tunnels
- Depyrogenation oven ...



## Fixed Logger



Diameter: 40 mm

Height (except sensitive element): 31 mm

Sensitive element: customizable

## Flexible Logger



Diameter: 40 mm

Height (except sensitive element): 31 mm

Cable length: max 50 mm

Shelf Contact Device for freeze dryer

## Temperature and Humidity Logger



Diameter: 40 mm

Height: 72 mm

Cable length: max 50 mm

## Temperature and Pressure Logger



Diameter: 40 mm

Max height: 67 mm