# LM<sup>Pro</sup> FZT Series Datalogger

## **30-day Electronic Temperature Recorders**

It is very critical to know and ensure that vaccines are stored at the recommended temperature throughout its lifecycle. WHO PQS E006 clearly defines the requirements for monitoring of vaccine temperatures. LMPro FZT- Freezer Temperature Data logger (Type-1) from G-Tek is an integrated sensor data logger meeting the requirements of WHO PQS **E006/TR06.4.** It displays "√" if the temperature has remained within the recommended limits. It displays "X" if there are any heat or freeze temperature violations, for a period beyond recommended limits. It gives a visual alarm for any violations of temperature. It stores the data up to 120 days and user can see the history data up to last 30 days without downloading or connecting the device to the computer. All the parameters and alarm limits are pre-configured as per the requirement of the guidelines. Intuitive menus and large display make it easy to use. It comes with individual NABL traceable calibration certificate. With its long battery life and economically priced, makes it indispensable in Vaccine Vial Monitoring (VVM).

#### Features:

- 120 days of data storage
- History data view of last 30 days
- · Large intuitive display
- Visual Alarm
- Tags for Alarm and Time Settings
- Long battery life of more than 3.5 years
- Battery life indicator on display

### **Specifications:**

#### General

Integrated Sensor Thermistor - 10K NTC

Sensor Measurement Range  $-30 \,^{\circ}\text{C} \text{ to} + 60 \,^{\circ}\text{C} (-22 \,^{\circ}\text{F to} + 140 \,^{\circ}\text{F})$ Accuracy  $\pm 0.5 \,^{\circ}\text{C} \text{ for the range } -30 \,^{\circ}\text{C to} + 30 \,^{\circ}\text{C}$ 

 $\pm$  0.7 °C otherwise

± 0.7 Cottletwise

Resolution 0.1  $^{\circ}\text{C}$  display and storage

Unit of Measurement Data in  $^{\circ}$ C. User has an option to view the data in  $^{\circ}$ F

Calibration Each device accompanies NABL (ISO/IEC 17025)

traceable certificate

Alarm Visua

Alarm Low Settings\* <=-0.5 °C for more than 60 minutes
Alarm High Settings\* >=8.0 °C for more than 10 hours
Response Time T90 < 20 minutes as per EN 12830:1999

Logging Interval\* Measurement interval 1 minute and Data store interval

5 minutes, Pre-Fixed.

Delayed Start Option Yes. 30 minutes after start of the device

\*Programmable or other settings available on request.

### **Power Requirement:**

Battery\* Non-Replaceable 3.0 V 950 mAH; CR2477 Panasonic (or

Equivalent) Coin Cell Battery;

Battery Life# More than 3 years useful life and up to 0.5 years storage life.

The battery indicator on the display provides information on

the remaining lifetime.

#: If data is stored at 5 minute store interval and display is in off mode with storage and operation of the device remained inside the recommendations of the manufacturer.

\*: Dispose or recycle the LMPro FZT in accordance with the WEEE 2012/19/EU guidelines or your local regulations. For the suitable recycling, the device may also be returned to the manufacturer.

### **Environmental Specification:**

Temperature during Transportation

and Storage - Device inactivated  $$-30\,^{\circ}\mbox{C}$$  to  $60\,^{\circ}\mbox{C}$ 

Temperature during

operation -30 °C to 60°C (EN12830:1999 Table 3, Climatic Type C)

**Humidity During Transportation**,

Storage and usage 5 to 95% RH non-condensing





## PC Interface and Software:

PC Interface Data of more than 30 days can be extracted using LMViewXS

E006 software. History data of 30 days can be seen using device keyboard and display without attaching to PC.

Software Compatibility LMViewXS E006 is compatible with Windows Operating

System currently supported by Microsoft

Connectivity USB 2.0 Type-A Ports Compatible; Data Download Time:

approx. 6 minutes for full data download

**Human Interface:** 

Display Type Character LCD Display with Min, Max, Battery Level Indication,

OK/Alarm, calendar, clock, duration, delay counter, Alarm high and Low, Alarm marker, Bell symbol, REC/Pause indication and

Current reading with measurement unit

Memory Size 30 days overview on the display/ PDF report up to 120 days

at store interval of 5 mins using LMViewXS E006 Software. Activation Device activation by long press of "UP" key for more than 10 seconds. Please refer to the operating manual for

more details.

De-Activation Cannot be manipulated, reset or deactivated without

destroying it

Status Indicator RUN: Red LED, flashes while device is activated

STP : Red LED, flashes while device is not activated

Alarm Visual Flashing temperature reading on display with lacktriangle or lacktriangle

arrow for high/ low alarm with bell symbol.

Power ON Indication "RUN" LED blinks in active mode; LCD shows temperature

data along with "REC" and alarm indications if any.

Mounting Device Through 2 holes provided. Refer to operating manual

for details

Material Polycarbonate Plastic: non-breakable, non-corrodible housing

12 months from the date of dispatch. Refer to warranty

certificate for more details.

Service Provision No user serviceable parts inside.

## **Physical Characteristics:**

Overall Dimension 128x60x22 mm

(L x W x H) mm

Warranty

Weight Approximate 120 gms

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#### Standards:

Electromagnetic Compatibility IEC 61000-6-2/6-3

Resistance to Electrical Storms IEC 61000-6-2; (IEC 61000-4-2 Basic Standard for applicability

of tests)

IP Rating IEC 60529: IP 64

Impact Resistance Yes

Vibration EN 12830:1999 RoHS Compliant

Verification In accordance with PQS verification protocol E006/TR06.VP.4

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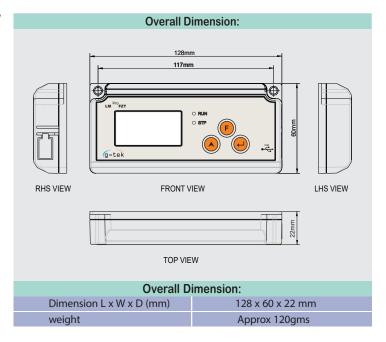
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