

## 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 °C to + 60 °C (-22 °F to +140 °F)
Accuracy	± 0.5 °C for the range -30 °C to + 30 °C ± 0.7 °C otherwise
Resolution	0.1 °C display and storage
Unit of Measurement	Data in °C. User has an option to view the data in °F Calibration Each device accompanies NABL (ISO/IEC 17025) traceable certificate
Alarm	Visual
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 °C to 60 °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 ▲ or ▼ 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
Warranty	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 (L x W x H) mm	128x60x22 mm
Weight	Approximate 120 gms

**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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Dealer / Representative

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The specifications given above are an overview, and may be or may not be available in all product variants, or at an additional cost. The company reserves the right to change the specifications without prior notice, as the company follows a continual improvement philosophy for its products.



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