

## LM<sup>Pro</sup> FZT Series (Type-1) Datalogger



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. LM<sup>Pro</sup> FZT-Freezer Temperature (Type-1) Data logger 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 60 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 guidelines, wherein the "Type-1" version indicates that it is capable for monitoring vaccine refrigerators at +2 to +8 °C. Intuitive menus and large display make it easy to use. Direct PDF/CSV Summary Report of maximum 60 days can be generated by connecting the device with PC. For the detailed data analysis and report, windows based software application is available. 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:

- 60 days of data storage
- History data view of last 30 days
- Large intuitive display
- Resolution of 0.1 °C for Display and 0.01 °C for Storage
- Display continuous ON option available\*
- Visual Alarm Indication
- Tags for Alarm and Time Settings
- Direct PDF/CSV Summary report for 60 days
- Long battery life of more than 5.5 years\*
- Battery life indicator on display

### Specifications:

#### General

Integrated Sensor	Thermistor - 10K NTC
Temperature 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 0.01 °C storage
Unit of Measurement	Data in degree centigrade °C. User has an option to view the data in degree Fahrenheit °F on LCD display
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 EN12830:1999
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

#### Power Requirement:

Battery	Non-Replaceable 3.0 V 950 mAh; CR2477 Panasonic (or Equivalent) Coin Cell Battery;
Battery Life#	Up to years 5 years useful life and 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 LM<sup>Pro</sup> FZT (Type-1) 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 (EN 12830:1999 Table 3, Climatic Type C)
Humidity During Transportation, Storage and usage	5 to 95% RH non-condensing



### PC Interface and Software:

#### PC Interface

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

Direct PDF/CSV Summary Report of maximum 60 days can be generated by connecting the device with PC.

Log data file of max 30 days can be extracted using LMViewXS-E006 software to analyze and generate the detailed data report in PDF/CSV format.

#### Connectivity

USB 2.0 Type-C Compatible; Data Download Time: approx. 30 seconds for PDF/CSV report download.

#### Software Compatibility

LMViewXS-E006 is compatible with Windows Operating System currently supported by Microsoft.

### 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 60 days at store interval of 5 minutes.
Activation	Device activation by pressing "Up" key for about 2 seconds. Please refer to the operating manual for more details.
De-Activation	Cannot be manipulated, reset or deactivated without destroying it.
Status Indicator	LCD display is normally in auto off mode; Display Permanent ON option is also available* RUN: Red LED flashes while device is activated.
Alarm Visual	Temperature reading on LCD display along with ▲ or ▼ arrow for high or low alarm with bell symbol. Alarm markers for last 30 days on LCD display
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	128 x 60 x 22 mm
Weight	Approximate 100 gms

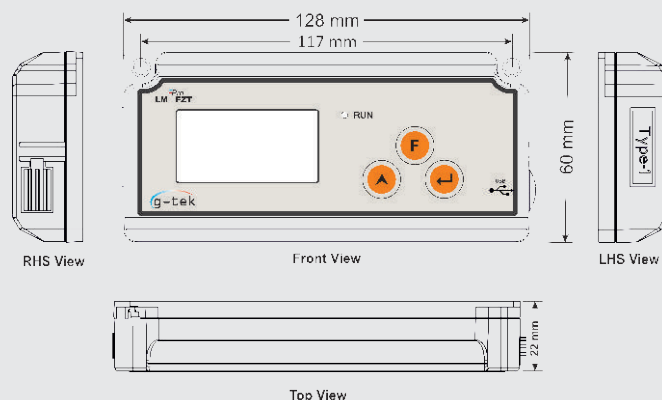
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## Standards:

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	5 drops from 1 meter onto concrete floor with battery in place. Device does not get damaged and there is no loss of calibration.
Vibration	EN 12830:1999 Clause 4.9.3.2 and Test Method 5.6.6
RoHS	Compliant (EU directive 2011/65/EU)
Verification	In accordance with PQS verification protocol E006/TR06.VP.4

\*: Current alarm settings are pre-fixed from factory as per requirements of WHO/PQS/E006/TR06.4. Other settings are available on request.

## Overall Dimension:



## Overall Dimension:

Dimension L x W x D (mm)	128 x 60 x 22 mm
weight	Approx 100gms

Dealer / Representative

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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