DL RMT Data Logger

The DL RMT is a compact, wireless IoT data logger built for cold storage environments where human access is limited. It reliably records temperature and humidity data, stores it locally, and transmits it securely to the cloud over Wi-Fi.

Equipped with a robust multi-channel alarm system (SMS, email, buzzer, LED), DL RMT instantly alerts users to critical changes. Its intuitive cloud dashboard allows remote monitoring and threshold configuration without requiring physical access.

A dedicated mobile application also enables device setup and management without the need for a physical connection. Designed for challenging environments like cold rooms and warehouses, DL RMT features a clear display showing WiFi and battery status, power-efficient operation and battery backup - making it a dependable solution for continuous, unattended monitoring.

Features:

- Smart, Reliable Monitoring for Cold Storage Environments
- GSM and/ Wi-Fi connectivity for cloud upload or local web access
- Real-time Sensor data acquisition
- Up to 3500 data records
- Rollover of data after 30 days
- Device Configuration through Mobile Application
- Alarm settings configuration from Cloud server
- User friendly Intuitive graph views, data table on Cloud application
- SMS, Email notification for Alarm Trigger condition
- For Instantaneous data view – OLED display
- Battery backup of 14 days*

Specifications

Display and Operator Panels# :

Display Type#	0.96" OLED display (128x64 pixel, Yellow-Blue color)
Status Indicator#	Status LEDs
	Green LED: Green LED blinks at data storage time, Wi-Fi wake up time
	Red LED: Red LED blinks when Alarm condition occurs in the sensor (s)
Panel Keys#	**Alarm Acknowledge Key:** Press Alarm ACK Key for approx. 1 second to Acknowledge the Alarm.
	Press and hold Alarm ACK Key for approx. 5 seconds to reset the device
	Wake-up Key: Press Wake-up Key for approx. 1 second to turn on Display and Wi-Fi wakeup.

Analog Inputs :

No. of Inputs	2 Sensors (Depends on the order code)
Remote Temperature Sensor#	RTD(PT-100); Probe: diameter 5 mm, length 50 mm; spring 50 mm, 3.5-meter-long Cable
Temperature Measurement Range	-200 °C to + 200 °C
Accuracy	± 0.5 °C for the range
	-200 °C to + 200 °C ± 0.7 °C otherwise
Resolution	0.1 °C display and 0.01 °C for storage
Unit of Measurement	Data in °C
Ambient Temperature-Humidity Sensor	Solid state MEMS sensor#
Operating range	-20 °C to + 60 °C (-4 °F to +140 °F)
	0 to 100 %RH
Accuracy	± 0.5 °C for the range +10 °C to + 40 °C;
	± 0.7 °C otherwise
	± 3 %RH for the range 20 to 80 %RH
	± 5 %RH otherwise
Resolution	± 0.1 °C
	± 0.1 %RH
Equivalent CO2 Sensor#	Air Quality Sensor
Operating range	400 to 65000 ppm CO2 Equivalent
Accuracy	±50 ppm or ±10%
Resolution	1 ppm CO2 Equivalent
Co2 Sensor#	NDIR (Non-Dispersive Infrared) CO_2 Sensor

Operating range	0 to 40000 ppm Co2
Accuracy	±50 ppm or ±5%
Resolution	1 ppm Co2
Calibration	Each device accompanies NABL (ISO/IEC 17025) traceable certificate

Alarm Details :

Alarm Settings*	Programmable (Configurable) High/ Low Alarm settings for Temperature, Humidity and eCO2 with alarm delay(Hr:Mn) selection
Alarm Visual	Red LED blinks for alarm High/Low condition
Alarm Audio	Buzzer will beep in alarm condition for 1 second at 15-minute store interval. For details please refer User Manual.
Alarm Acknowledgement	By pressing (🔔) Alarm Acknowledge key for 1 second. After Alarm acknowledgement buzzer will be deactivated. For detailed operation please refer to User Manual.

Batch Details :

Activation	On Power up, the data logger needs to be connected with Wi-Fi first for device activation and getting the Date and time from NTC sever.
Deactivation	Cannot be manipulated, reset or deactivated once activated
Data Recording Interval	15 minutes Pre-fixed

Memory :

Data Storage	Yes
Memory Type	Flash, Non-volatile, Data Retention of more than 20 years
Memory Size	Data storage of last 30 days
Memory Setting	Rollover data records

Environmental Parameters :

Temperature during Transport and Storage - Device inactivated	-20 °C to + 55 °C
Temperature during operation#	0 °C to + 60 °C
	(EN 12830:1999 Table 3, Climatic Type A)
Humidity during Transport, Storage and Operation	0 to 95 %RH non condensing
Altitude	< 2000 meter

Power Requirements :

Power Supply	DC adapter 9 V DC, 2A, 18 W
Battery	9 V DC, 2A, 18 W Lithium Ion Rechargeable Battery 3.7 V, 1000 mAH; Replaceable Battery
Battery Life	Operating life of 5 Years
Battery Backup	Up to 14 days* with recommended operating condition

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User Interface :

Home screen view#	**Display Header:** Wi-Fi signal strength, measurement unit, Battery Level **Main Body:** Sensor reading
Data File Type	Json Data Objects file for data records
On site Installation	Not required
Training	Not Required. If requested, remote training Provided.
Warranty	1 year from the date of dispatch. Refer to warranty certificate for more details.
Service Provision	Replaceable parts of the data logger shall be supplied on request.

Communication Details :

Communication Type	GSM/Wi-Fi/ RF (refer order code)
Data Connector	Not required
Firmware update	OTA (Over The Air) upgradable
Data Upload	When on DC Supply input, the data are uploaded at every 15 minute interval and on alarm event condition. When on Battery Backup, the data are recorded internally, the data upload will be started after the DC supply input is resumed.

Physical Characteristics :

Enclosure Material	Polycarbonate Plastic: non-breakable, non-corrodible housing
Overall Dimensions (L x W x D) mm	135 (L) x 76 (W) x 27 (D)
Weight	Approx. 250 gms
Mounting	Wall Mounting Bracket

Conformity Standards :

Electromagnetic Compatibility	IEC 61000-6-1/6-3
Resistance to Electrical Storms	IEC 61000-6-1; (IEC 61000-4-2 Basic Standard for applicability of tests)
IP Rating	IP 30
Pollution Degree	II
Installation category	I
RoHS, Reach	Compliant (EU directive 2011/65/EU)

* If data is stored at 15-minute store interval and display is in off mode with storage and operation of the device remained inside the recommendations of the manufacturer.

\# The sensor has the highest accuracy between + 5 °C to + 60 °C and 20 to 80 %RH. If the device is exposed to high humidity for a prolonged period, the measuring accuracy decreases. Prolonged exposure may introduce shift in the sensor reading with a slow recovery time. The data logger must not be exposed to a relative humidity of 100% for longer time.

\# Feature depends on the options selected, please refer to order code; Specifications are subjected to change without notice.

Select your ORDER Code: 9 1 3 1 0 – 1

Example ORDER Code: 9 1 3 1 0 – 1

Code : Data Logger series
  9 : Cold Chain series

Code : Display Type
  1 : OLED 0.96" Display (128x64 pixel)

Code : Sensor Type
  0 : RTD Temperature
  1 : Temperature + Humidity
  2 : Temperature + Humidity + eCO2 (AQI)
  3 : Temperature + Humidity + CO2 (NDIR)

Code : Power Supply
  1 : 9-12 V, 2 A DC Supply + Battery Backup
    (2 x 1100 mAH, 3.7 V)

Code : Comm Type
  0 : GSM + Wi-Fi
  1 : Wi-Fi
  2 : RF

Code : Auto Firmware Update
  0 : No Auto Update
  1 : Auto Update

NABL
ISO/IEC 17025:2017

RoHS VERIFIED

CE

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001-ISO 14001

Dealer / Representative

Manufacturers of :
- Circular Chart Recorders
- Inkless Recorders
- Paperless Recorders
- Scanners & Data Loggers
- Networked Data Loggers
- Application Software
- Web based DAQ
- Vaccine Series Data Loggers

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G-TEK CORPORATION PVT. LTD.

"Gunaji House"
Plot No. 25/1, Besides Status Bungalow,
Padra Road, Vadodara – 391410.
tel.: +91-98245 24140
e-mail: info@gtek-india.com
url: www.gtek-india.com