

# Temperature Monitoring Solution

## DATA LOGGER

ATM DL-05



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## Applications

- 1 Clean Room Monitoring**
- 2 Vaccine Monitoring**
- 3 Cold Chain Temperature Monitoring**
- 4 Pharmaceutical Storage**
- 5 Autoclave Validation**

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# Technical Specification



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**2 /4 Channel.**

**Analog / digital /4-20 mA / 0-5V input ports.**

**Rs232/Rs485/Modbus communication port .**

**Setpoint feature in all channels.**

**16\*2 Lcd display.**

**GUI software for online servers.**

**GSM facility can fetch receive data on a mobile phone.**

**Internal Data Storage**

**Direct interface to PC.**

**Can download data from memory card in an excel format.**

**Single relay for controlling the application.**

**Battery operated ( Back up to 6-8 hours).**

## **Optional**

### **Wired Interfacing Method**

- 1. Modbus**
- 2. Ethernet**

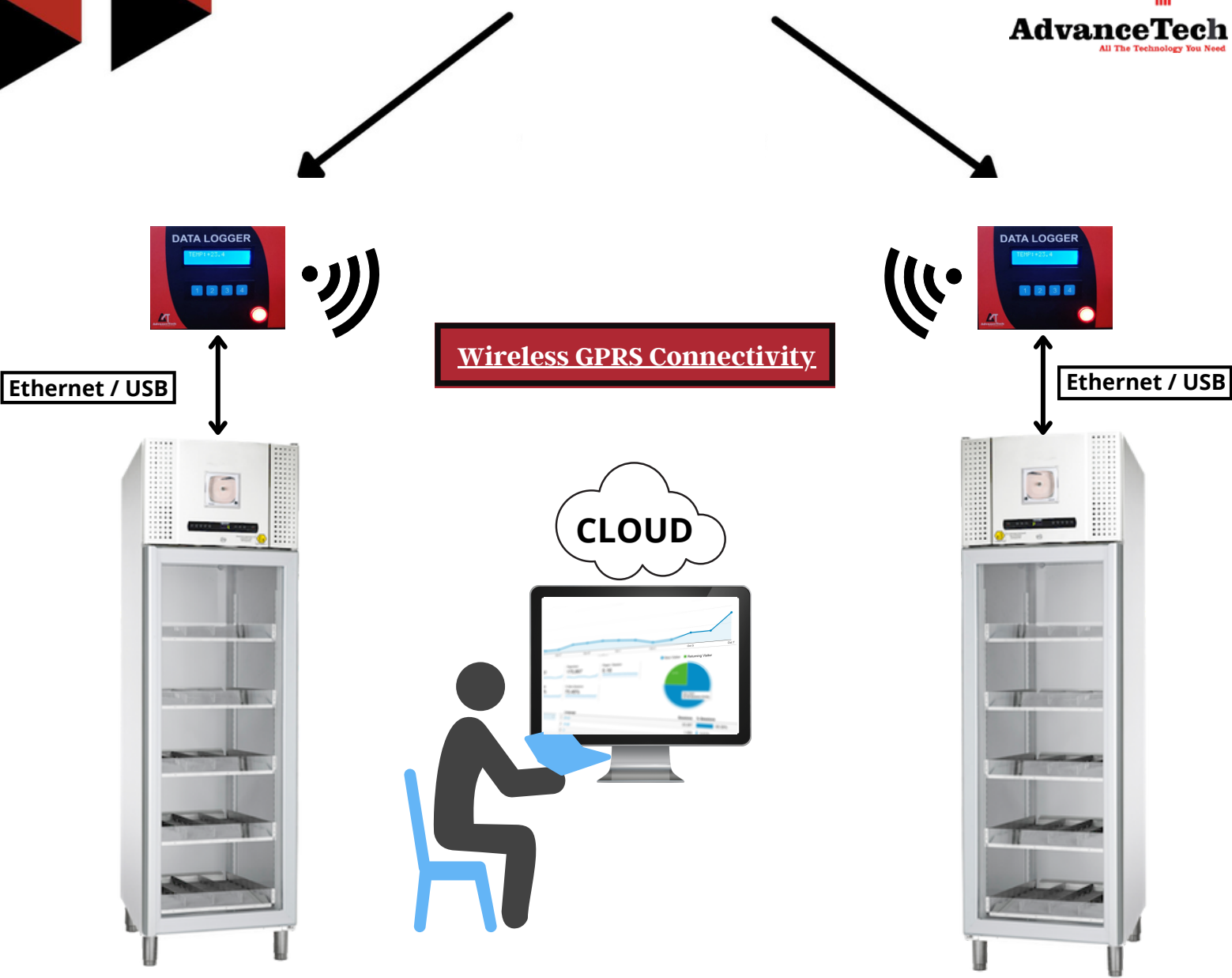
### **Wireless Interfacing Method**

- 1. WIFI**
- 2. GSM/GPRS**

# Block Diagram



## Data Loggers



## Description

- **Continuous Monitoring and recording of temperature readings.**
- **Central Software for Data analysis and report.**
- **Battery Back up for any type of power failure.**
- **Cloud Software should have daily, monthly, weekly report generation in pdf, graphical format.**
- **Cloud Software should have the facility to weekly, monthly automatically email generation**
- **Can also have facility for data transfer to local server PC.**
- **Can have facility of on-board SD card data storage**
- **GPRS module should have the facility to transfer the data remotely in 2G,3G,4G network**

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# Features



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1

## **GPRS facility**

- *Online monitoring through GPRS facility*
- *All type of alerts like SMS/Audio/Visual/External Hooter*

2

## **Battery Operated**

- *Data logger with 8 hours battery back for no data loss in power failure conditions.*

3

## **Accurate Data**

- *Continuous and consistent data recording and temperature monitoring with all types of analysis*
- *graphical representation and minimum-maximum and an average reading*

4

## **Cost-Effective**

- *Low-cost data logger with use full feature for safe handling and storage of important pharmaceuticals or any time of blood plasma samples.*

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# OnSite Installation



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## *National Institute of biological Noida*



## *Government Blood Bank kharar*



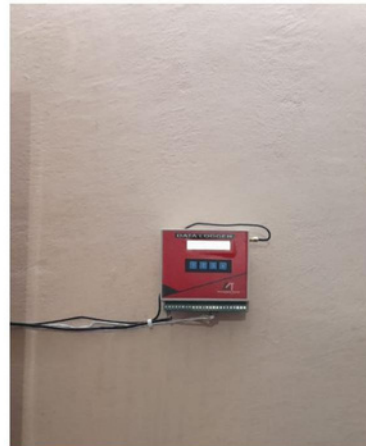
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# OnSite Installation



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## Civil Hospital Fatehabad



## PGI Chandigarh



# Dimensions



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# Calibration Certificate



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**NIIRT - Centre for Calibration, Analysis & Testing**

**A Unit of National Institute for INDUSTRIAL RESEARCH & Technology**

(Registered with Ministry of MSME, Govt. of India and INDUSTRIES, Govt. of Haryana)



**AN ISO/IEC 17025:2005 ACCREDITED LABORATORY BY NABL, A CONSTITUENT BOARD OF QCI, GOVT OF INDIA**

ULR No: CC218221700006903F (THERMAL)

FORM-04, TSD, Version 1.1

## CALIBRATION CERTIFICATE-CUM -REPORT

CCR No. & Date : C4CAT/2078/C0416-TTH(11) / 15-07-2021	Calibration Completion Date: 17-07-2021	Page no.
SCF No. & Date : 2078/ C0416 / 13-07-2021	Suggested next Calibration Date: 14-07-2022	1/1

1. Customer Details: Name: M/s PGIMER. Address : Madhya Marg, Sector-12, Chandigarh(Chandigarh), PIN - 160012
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2. IUC Description:	Name : Temperature Sensor with Data Logger	Serial No. : 072123
	Make : ATIPL Model : ATM DL 05	ID/Location: NS
	Range : -20 to 50°C Resolution 0.1°C	
	Accuracy / Specification : NS	

3. IUC Condition and Status: Good / Not Adjusted
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4. Standard Equipment used & their Traceability :					
SI.	Name	Identification	Traceable to	Certificate /Report No.	Validity
1.	Platinum Resistance Thermometer with Indicator	Fluke/5609,Fluke/1586A,06024 TTH/DLG/181/49045020	NABL Accredited Laboratory Certificate no. CC-2020	FL/C/TH/26122020-C005	27-12-2021

5. Methodology used : SCP-08 TTH	2
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6. Location and Environmental Conditions :	At-Lab	Temperature 25 ± 4 °C	RH : 50 ± 20 %
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7. Calibration Results : Temperature				
Sl. No.	IUC Reading Range(°C)	STD Reading (°C)	IUC Readings (°C)	Uncertainty <sup>(1)</sup> (± %)
1	-3.1	-4.91	-181	.....
2	4.3	2.3	-1.77	±0.5
3	6.5	5.42	-1.08	
4	10.7	9.81	-0.89	
5	15.6	14.85	-0.75	

8. Remarks :
<ol style="list-style-type: none"> <li>The IUC was calibrated against standard lab instruments the calibration of which traceable upto national/ International standards.</li> <li>The quoted uncertainties are expanded uncertainties at coverage factor; k; =2, which corresponds to coverage probability of 95.45% for a normal distribution.</li> <li>The Calibration results are valid for the particular IUC submitted for calibration identified at sl. No 2 at the time and under specified environmental conditions of measurement.</li> <li>No. certificate/ report will be reproduced, except in full without written permission of COO, NIIRT- C4CAT.</li> <li>For any communication or clarification regarding the services please write to COO, NIIRT- C4CAT quoting the service Contract no. along with.</li> <li>The Calibration certificate not bearing NABL symbol indicates that particular calibration(s) is /are not performed under accredited scope of NABL.</li> <li>Abbreviations: CCR – Calibration Certificate – cum – Report, SCF- Service Contract from, IUC – Instrument Under Calibration, ID: Identification, NS – Not Specified.</li> </ol>



Calibrated by

*(Signature)*  
Pankaj

Checked & Approved by

*(Signature)*  
(A. Narayan)

TECHNICAL MANAGER

**COMMITMENT for QUALITY with CONFORMITY**

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# Application Based Customer Reach



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## Cold Storage/Room Data Logger

S.No.	Industry	Customer Name	Qty
1	Cold Room	AvvashyaCCI Supply Chains Gurgaon	2
2	Cold Room	Vacxigen Lifescience Pvt. Ltd. Solan	1
3	Cold Room	Suguna Foods Panjab	20
4	Cold Storage	Param Dairy Bulandsher	6
5	Cold Storage	Jindal Frozen Kashipur	3
6	Cold Storage	Khanduja Cold Storage Zirakpur	3
7	Cold Storage	Igloo Frozen Foods Pvt. Ltd. Visakhapatnam	2
8	Cold Storage	BR Cold Storage Jaypore	2

## Hospitals/ Blood Banks

S.No.	Industry	Customer Name	Qty
1	Cold Room	Sri Guru Ram Das University of Health Science (Amritsar)	3
2	Refrigerator	District Hospital Kargil (Ladakh)	1
3	Refrigerator	GB Pant Hospital Delhi	1
4	Refrigerator	PGI Chandigarh	20
5	Refrigerator	ICMR Assam	3
6	Refrigerator	Civil Hospital Fatehabad haryana	1
7	Refrigerator	Civil Hospital Rewa MP	1
8	Cold Room	PSACS Chandigarh	8

## Research Organisations/ PSUs

S.No.	Application	Customer Name	Qty
1	Refrigerator	Institute Of Pesticides Formulation Technology	7
2	Incubators	National Institute of Biologicals	5
3	Refrigerator	CIPHET Ludhiana	6
4	Soil farm	Indian Institute of Pulses Research Kanpur	3
5	Soil testing	Central Grauond Water Board Delhi	20
6	Cold Room	PAU Ludhiana	4

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