

## **DATA LOGGERS**

### **Temperature & Humidity Monitoring Solutions**

Various standalone products and complete solutions for Pharmaceuticals, Hospitals, Cold storages etc.  
more

### **Data Loggers for Oil & Gas, Drilling Applications**

Various high precision data loggers for extreme conditions

### **Voltage, Current, Frequency & Power Data Logger**

Data Loggers for Voltage, Current, Frequency, Power etc,

### **Geotechnical Data Logger**

Data Loggers for Geo technical applications

### **Refrigerator / Freezer monitoring and alarm**

Refrigerators and Freezers for storing medicines, vaccines etc, more

### **Monitoring for Server Rooms**

Various parameters such as Temperature, Humidity, Power etc. For Data center, Server room etc.  
more

### **Monitoring for Shipping /Transportation**

Solutions for shipping of food, medicines etc. more

### **Pressure Data Logger**

Devices for measuring and recording pressure more

### **Environment / Meteorology Monitoring**

Measuring, recording and forecasting environment conditions more...

### **Wireless Temperature Monitoring solutions**

We provide various type of Wireless monitoring Temperature & Humidity Monitoring Solutions more..

### **Telecommunication Tower Stations**

Monitoring and alert solutions for Telecommunication towers especially in remote areas more...

### **Phone Call/Email/SMS alert & Alarm system**

Any of our monitoring solutions can be connected to the alert system for Email/SMS/Phone call alerts  
more..

### **Agricultural Solutions**

Detectors and recorders for soil conditions and other Agricultural applications more..

### **PV Data Logger for Solar Systems**

Able to record for up to 4 weeks using its backup battery

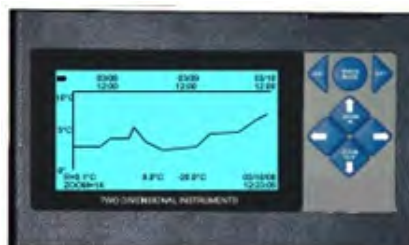
### Temperature & Humidity Monitoring Solutions high sensitive areas

a. Temperature & humidity monitoring with Phone call/SMS/Email alert

The temperature of refrigerator, freezer, cold room, medical equipment, incubator, operation theater, ICU etc. are monitored continuously every 5 seconds with an accuracy of up to  $\pm 0.2$  Deg. Celsius. In the event that the parameters exceed the defined limits, automatic phone calls are made to 8 operating personnel repeatedly until one of them acknowledges by pressing # button. Simultaneously SMS will be sent to all these 8 operators so that everyone will be aware of the alert. The data can be continuously stored in the data logger, in a computer or on a web platform. The data can be obtained through wired or wireless systems and the data will be continuously recorded with its on temperature monitoring software

Salient Features:

- All freezer temperatures and freezer door open/close status in the facility are available for continuous monitoring and display on a local PC, or over a local area network (LAN)
- The past temperatures and door open/close status with the time, date and ID of all freezers/refrigerators can be automatically recorded and stored as a files saved in the workstation hard disk drive and can be recalled to be viewed or printed in tabular or graphic style by selecting the specific data, month and year through the workstation.
- When alarms occur, the system will notify the operator through a local alarm, email, SMS or phone call or all of these alerts.
- Temperature from -200 Deg C to 1000 Deg C can be monitored



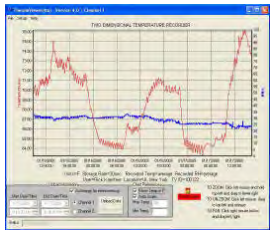



b. Temperature monitoring for Food/Medical industry





– Temperature monitoring and recording is essential throughout various stages in food industry. We can provide a solution similar to 'a' above providing monitoring, recording, controlling etc. and alert will be sent through automated phone calls, SMS, email etc.

Also if desired you can increase or decrease the temperature of the freezer/cold storage by sending a SMS

Different communication protocols with



<p>WiFi or Wired Ethernet are available and The system comes with its on temperature monitoring software. These are low temperature sensors capable of reading upto -40 Deg C</p>	
<p>c. <u>Temperature monitoring for Furnaces</u> – The furnaces have to be maintained at very high temperatures for a long duration. The temperature of the furnaces can be monitored and recorded continuously and in case of exceeding the limits, phone calls will be made to operators along with SMS and a local alarm. Also we carry out Temperature mapping &amp; validation of furnaces</p>	
<p>d. <u>Under Water Monitoring</u> – Various Parameters can be continuously monitored and recorded such as water temperature, water conductivity/salinity, water level, dissolved oxygen etc. Parameters can be monitored upto a depth of 300 meters. The data will be automatically transmitted to an onboard computer</p>	
<p>e. <u>Wireless Food Core Temperature Data Logger</u> – The device is a handy-type device which acts both as a thermometer and a temperature recorder that has been designed for sensing temperature and recording the internal temperature of food items such as meat and liquid temperature, featuring a needle-type sensor. The device enables effective HACCP based temperature management for food safety, making it ideal for use in food processing environments. This product has been designed to meet IP64 standards (splash resistant; rated for use in daily life). The data can be transferred to a computer through a wireless/WiFi system. This is especially used for processes involving HACCP certification</p>	
<p>f. <u>Wireless wall mounted monitors for hospital rooms</u> – This small device which indicates the temperature &amp; humidity on its small screen will be fixed on the wall in patient rooms/operation theaters etc. The device will store data of upto 8000 readings and can be transferred to a computer through wireless system or through a USB connection.</p>	
<p>g. <u>Clean Room Monitoring</u> – Various</p>	

<p>parameters defined by international standards such as no. of particles per cubic meter, temperature, humidity, lighting level, pressure, air flow, sound level etc. can be monitored and recorded continuously.</p>	
<p>h. <u>Chart Recorder</u> Chart recorders are utilized to records temperature, pressure etc. reliable especially when long distances are involved. We supply chart recorders of reputed companies with corresponding sensors. The device is with special logic controllers and the recording speed can be adjusted to suit your requirements.</p>	
<p>i. <u>Weather Station on Smart Phone / Tablet</u></p> <ul style="list-style-type: none"> <li>• Weather and Air Quality monitoring, indoor and outdoor.</li> <li>• Measure CO2 concentration and monitor confinement.</li> <li>• These are wireless sensors</li> <li>• Get local Air Quality Index report, real-time.</li> <li>• Improve your indoor wellness</li> <li>• You can install the App on any and all of your devices.</li> <li>• All of your data is stored online and permanently accessible from the App or the WebApp.</li> </ul>	
<p>j. The iBee is the submersible version of the high temperature iButton® type 22T and 22E. Specially conceived for oven and autoclave monitoring, can also be used for meat processing, temperature traceability or cooking process optimization. Very resistant and waterproof, can be used in a high temperature, high pressure steam environment (medical sterilisation)</p>	



<p>k. Versalog Temperature Data Loggers for Industrial / Large Scale Purposes</p> <ul style="list-style-type: none"> <li>• 16-bit analog-to-digital converter</li> <li>• 4 MB Memory stores up to 2 million measurements</li> <li>• One on-board thermistor channel monitors ambient temperature.</li> <li>• Seven range programmable thermocouple voltage input channels cover wide measurement requirements.</li> <li>• Thermocouple: Type E, N, J, K, T</li> <li>• Can be accessed via USB, MODEM, or Ethernet connections</li> <li>• 10-year battery life</li> <li>• Fast sampling mode</li> <li>• Alarm and excitation output</li> </ul>	
<p>l. Versalog Thermistor Data Loggers for Industrial Purposes / Large Scale applications</p> <ul style="list-style-type: none"> <li>• The 16-bit analog-to-digital converter meets most high-resolution requirements.</li> <li>• The 4-Mega-Byte Memory stores up to 2 million measurements.</li> <li>• One on-board thermistor channel monitors ambient temperature. Seven range programmable thermistor input channels cover wide measurement requirements.</li> <li>• Can be accessed via USB, MODEM, or Ethernet connections with auto baud rate of up to 115 kbps.</li> <li>• 10-year battery life</li> <li>• Fast sampling mode</li> <li>• Alarm and excitation output</li> </ul>	
<p>m. VersaLog RHT-I Humidity and Temperature Data Logger for Industrial Purposes / Large Scale applications</p> <ul style="list-style-type: none"> <li>• Records temperature and humidity using internal Sensirion RH digital sensor</li> <li>• 4 mega-byte memory size</li> <li>• Both USB and serial interfaces with auto baud rate of up to 115 kbps</li> <li>• Sensirion RH Digital Sensor</li> <li>• Over 5 years of battery Life</li> <li>• Powerful software for configuration, downloading, plotting, analysis and alarm reporting</li> <li>• Configurable Alarm Control/Excitation Controls</li> <li>• Wide sampling interval selections (from 1</li> </ul>	



- second to 12 hours)
- Rugged aluminum enclosure
- Coated PCB to protect against moisture, corrosion and mildew.

## Data Loggers for Oil & Gas, Drilling Applications

### HiTemp140 Data Logger

High Temperature Data Logger. The HiTemp140 is a rugged, high precision, high temperature data logger that is built for use in harsh environments.

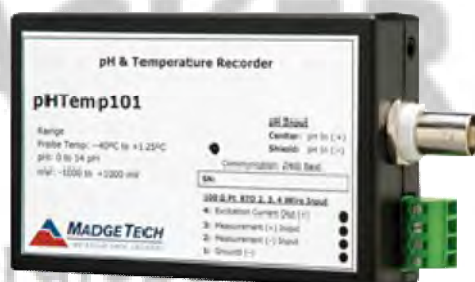
The HiTemp140 is a rugged, high precision, temperature data logger that is built for use in harsh environments. This stainless steel device is submersible, can withstand temperatures up to 140°C (284°F) and has an accuracy of  $\pm 0.1^{\circ}\text{C}$  ( $0.18^{\circ}\text{F}$ ).



### pH Temp101 Data Logger

Miniature, Battery Powered, Stand Alone, pH and Temperature Data Logger. Directly connects pH and ORP electrodes with BNC connectors.

The pHTemp101 is a miniature, battery powered, stand alone pH and temperature data logger. The device measures full range from 0 to 14pH. The data logger directly connects to industry standard pH and ORP probes with female BNC connectors. Temperature compensation is provided through an external RTD temperature channel.



### RHTemp1000IS Data Logger

Intrinsically Safe, Rugged, Water Resistant, Stand Alone, Humidity and Temperature Data Logger

The new RHTemp1000IS Intrinsically Safe humidity and temperature logger is a rugged, battery powered, stand alone device which can be used to automatically record humidity and temperature. This compact, portable, easy to use device is able to measure and record up to 16,350 humidity and temperature measurements per channel.



## Voltage, Current, Frequency & Power Data Logger

**VersaLog DCVC-HR Voltage Current Data Logger**

- 16-bit analog-to-digital converter
- 4 MB Memory stores up to 2 million measurements
- Seven range programmable voltage and current external input channels
- Can be accessed via USB, MODEM, or Ethernet connections
- 10-year battery life
- Fast sampling mode
- Alarm and excitation output


**AEMC PEL102 Data Logger**

With the AEMC PEL102 all vital energy data is easily measured, recorded, and analyzed; making it an ideal tool for electricians, engineers and contractors doing work in the area of building and system monitoring and upgrades, as well as residential and overall energy audits.

- Measurement of RMS voltages and currents at 128 times per cycle and stored every second
- Measurement of VA, W and VAR power values (total and per phase) stored every second
- Measurement of VAh, Wh and VARh energy values (total and per phase) per second with source/load indication
- Calculation of the cos  $\phi$  Displacement Power Factor (DPF) and the Power Factor (PF) stored every second
- Calculation of Total Harmonic Distortion (THD)
- Measurement, calculation and display of the harmonics up to the 50th order for 50/60 Hz and 7th order for 400Hz
- Measurement of the DC quantities (RMS calculation)
- Electrical network quantities are stored on a removable SD-Card
- All variables are recorded and stored at a one second interval and on user selectable demand intervals from 1 to 60 minutes
- Automatic recognition of the connected current sensors
- DataView software for configuration, data retrieval and real-time viewing of measurements with a PC
- Versatile communication interface choices built in (USB, Ethernet, Bluetooth)
  - Includes 3 x MiniFlex MA193-10-BK sensors; 5-ft. USB cable; 4 x test leads and alligator clips; power cord; 12 x colour-coded ID markers; multifix mounting system; safety card; 2GB SD card with USB-SD card reader; USB stick with DataView software; Quick Start user guide; users manual; all in a tool bag



## Geotechnical Data Logger

### DT85GM Intelligent Vibrating Wire Data Logger

The dataTaker DT85GM supports vibrating wires to handle geotechnical data logging applications, and has a built in cellular modem ideal for remote monitoring applications.

- Built-in Cellular Modem for remote access and automated data transfer
- Vibrating Wire Strain Gauge Support
- Compatible with Geotechnical Instruments
- 16 to 48 Universal Analog Sensor Channels
- Expandable up to 900 Analog Inputs
- 8 Bi-Directional Digital Channels
- 4 High Speed Counter Channels
- 4 SDI-12 Channel
- Advanced Alarming & Mathematical Capabilities
- Ethernet or USB Communication with PC
- SDI-12 and Modbus Sensor Support
- Built-in Web Server, FTP, and an Enhanced Web Interface



### Refrigerator / Freezer monitoring and alarm

The temperature of refrigerator, freezer, cold room, incubator, operation theater etc. are monitored continuously every 5 seconds with an accuracy of up to  $\pm 0.2$  Deg. Celsius. In the event that the parameters exceed the defined limits, automatic phone calls are made to 8 operating personnel repeatedly until one of them acknowledges by pressing # button. Simultaneously SMS will be sent to all these 8 operators so that everyone will be aware of the alert





### For Server Rooms

Following parameters of Server room / Data Center/Computer room can be monitored and Phone/Email/SMS alert can be generated:

- Temperature
- Humidity
- Light
- Air Flow
- Door opened condition
- Smoke
- Power Failure
- Water Leakage

In the event that any of the parameters (Temperature, Humidity, Door open, Lights ON/OFF, Power failure, Compressor trip etc.) exceed the defined limits, automatic phone calls are made to 4 operating personnel repeatedly until one of them acknowledges by pressing # button.

Also SMS & Email alert can be configured



### Shipping/Transportation Solutions





a. Temperature recording during transportation This small device can be placed inside the consignment which will record the temperature continuously and the data can be downloaded and checked at the receiving end to ensure that the shipment has been under correct temperature conditions throughout the shipment. WE can offer single use or multi use temperature Data Loggers including Pharmaceutical and Biotech shipments. The device can be offered for a shipping duration of up to 75 days





b. Temperature monitoring for Certified Shipping We offer temperature logging products for monitoring of temperature with utmost accuracy for extremely temperature sensitive goods. These are classified as Certified Shipping.




c. Dry Ice Temperature Loggers – These are used for -80 Deg. C for freezers or dry ice either during shipment or storage



	
<p>d. <u>Battery-Free (Passive) RFID Temperature Sensors</u> - Miniature, mobile, rugged temperature detector is Embeddable and submersible for items in transit, or when the item being monitored is mobile or sealed (such as the contents of a can). The unique passive temperature sensor can also monitor humidity, pressure, and more through almost any material. Temperature Range of -40 °C to 180 °C with accuracy better than 0.25 °C</p>	
<p>e. <u>Battery-Powered (Active) RFID Temperature Sensors</u> - Low-power and long-life provides continuous monitoring and alerts at a low cost. Wireless battery charging options are available. A variety of form factors enables these sensors to be utilized in many different industrial environments: aircraft, utilities, medical and pharmaceutical, construction, agriculture, supply-chain management, and many more. Temperature Range of -40 °C to 180 °C with accuracy better than 0.25 °C</p>	
<p>f. <u>Temperature monitoring of Vehicles for Medicine / Frozen food Delivery</u> This device is very useful especially in hot climate conditions to ensure that the Ice cream/frozen food remains under stipulated temperature conditions until delivery. A device will be fitted in the delivery vehicle which will send the temperature and other important parameters of the vehicle and its freezer to a centralized PC either through GSM or GPRS. Also in case of variation of the temperature beyond the permitted range, the device will send SMS to 4 operators. Up to 20 different mobile numbers can be programmed as receivers. The data can be monitored through a remote computer or can be downloaded from the device through a dedicated software. Also customer can send an SMS to the device and will receive an automated reply indicating temperature and other parameters as required. The temperature can be increased or decreased by sending the SMS or even the vehicle can be switched ON/OFF by sending SMS.</p>	

<p>g. <u>Cryo temperature Data Logger</u> - Ultra Low Temperature Data Logger to be placed inside the shipment during transportation. The device will record temperatures as low as -86°C. The Cryo-Temp logger can be used in a broad line of applications such as monitoring blood plasma, vaccines, pharmaceuticals, frozen foods and shipping containers. This stand-alone device does not require any additional probes. The enclosure is designed with a handle for easy attachment and is splash proof. It utilizes a USB docking station to communicate with a personal computer.</p>	
<p>h. <u>Miniature Data Logger</u> - Independent miniature data logger for operating temperatures from -40°C to +140°C which has an accuracy of ±0.5°C for Recording of temperature or temperature and humidity. Thanks to the small size, which roughly corresponds to the size of a watch battery, this mini data logger can also fit very well in small objects and packaging.</p>	


### Pressure Data Logger

<p>The PRTemp1000 is a rugged pressure data logger designed to accurately monitor and record pressure and temperature parameters at user programmable reading intervals. The rugged stainless steel design allows for the device to be placed in harsh environments, which makes it well suited for use with air conditioning systems, chilled water, hot water, air, gas, oil and steam pressure systems.</p> <p>The internal temperature sensor provides accurate temperature measurements without the need for a separate temperature recorder. The logger can be started to take measurements as often as every two seconds, up to one reading every twelve hours. It will store up to 16,383 readings in its non-volatile memory.</p>	
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## Environment / Meteorology Monitoring

<p>One single device to measure and record Temperature, Humidity, Light and Air Flow Velocity and Sound and data can be recorded on to a SD card. The recorded data can be transferred to Microsoft Excel. Also External sensors for various applications also can be connected. The battery lasts a minimum of 40 hours and maximum of 120 hours depending on the data sampling rate, environment conditions etc.</p>	
<p>Mini Meteorological Radar MMR is a unique portable X-band weather radar with large functionality integrated in small device sold for favorable price. It provides real time insight to weather situation up to 100 km range.</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>• Unique portable X-band weather radar</li> <li>• Large amount of functionality integrated in small device</li> <li>• Real time insight to weather situation</li> <li>• Up to 100 km range</li> </ul>	

## Wireless Temperature Monitoring solutions / Cloud Based Solutions

<p>We provide various type of Wireless monitoring Temperature &amp; Humidity Monitoring Solutions offered by SensoScientific, USA. Either RF or WiFi systems can be offered covering:</p> <p>Wireless sensors Wireless Monitors Can be monitored through Phone, Tablet, internet etc. Alerts can be generated</p>	
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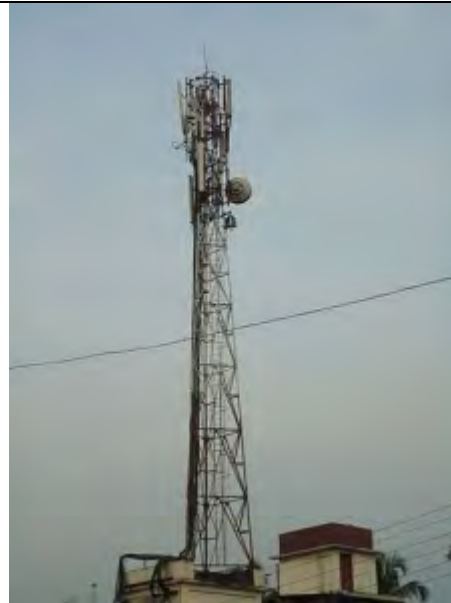
### Telecommunication Tower Stations

In remote areas there are tower stations which are self powered through solar cells and work independently. However monitoring various parameters of the station pose a challenge. Especially the temperature of the station need to be monitored continuously in hot climates like Middle East region.

Our custom made solution for this purpose will monitor the following parameters continuously:

- Temperature of the station
- Humidity of the station
- Battery charge low
- Ampere value of solar inverter
- Water accumulation in humid conditions
- Smoke / Fire

In the event of any fault condition on any of the above parameters, an automatic phone call will be made to 8 operators continuously delivering a voice message indicating the type of fault. The phone calls will be made to all the operators continuously until one of them attends the phone and acknowledges by pressing the # button. Also SMS will be sent to all these operators indicating the type of fault. The device works on any normal SIM card and the device itself can be programmed by sending SMS. Also the operator can send SMS to the device and check the important parameters at any point of time.



[www.vackerglobal.com](http://www.vackerglobal.com)

### Phone Call/Email/SMS alert & Alarm system

In the event that any of the parameters (Temperature, Humidity, Door open, Lights ON/OFF, Power failure, Compressor trip etc.) exceed the defined limits, automatic phone calls are made to 8 operating personnel repeatedly until one of them picks up and acknowledges by pressing # button. Upon attending the call a recorded voice message will be delivered indicating type of fault. Apart from the voice alert a SMS also will be sent to all these 8 operators so that everyone will be aware of the alert.

In case the fault is not attended in a certain duration (eg. 15 minutes) the device will again call the same mobile number repeatedly. Various alarms & alerts can be configured including:

- Temperature alarm
- Humidity alarm
- Power Failure alarm
- Compressor trip alarm
- Lights On/Off Alarm





- Water leak alarm
- Gas leak alarm
- Fire alarm alert
- Smoke Alarm & alert

[download details](#)

## Agricultural Solutions

### Soil temperature sensor

ST01 is a high quality temperature sensor that is specifically designed for soil temperature measurement in extreme environments. Using top quality materials it is suitable for hostile conditions as encountered in outdoor installation (temperature, radiation, chemicals). It is designed to have a record-breaking lifetime with optimal stability. Employing a platinum sensor, at extreme temperatures a higher accuracy can be attained than with commonly used thermistors



Low cost submersible PVC rod with several temperature sensors. Equipped with 4, 6 or 8+ temperature data loggers set a user specified position. Can log temperatures at different depths at the same time. Based on the **iButton®** series, it comes in G, Z & 22L type buttons. Standard rods with top connector and 4 iButtons. Options for more iButtons and 25ft submersible cable and connector to allow download from the side of a stream or canal.

Perfect for geological surveying.



## PV Data Logger for Solar Systems

### PV Data Logger for Solar Systems

Able to record for up to 4 weeks using its backup battery, PV-3 Solar Data Logger records solar irradiation up to 1,500 W/m<sup>2</sup> and DC current/voltage produced by solar panel. When recording, logger will store average voltage (and current if applied) over chosen period, from 1 sec to 60 min, as well as VAvg, VMax, and VMin on 2 channels. All voltage levels are stored with dates and times. Using constant sampling technique, logger continuously samples every channel 16 times per cycle.





**Thermocouple**

Thermocouple consists of two dissimilar metals and is used for measuring for temperatures. J Type & K Type Thermocouple for various applications are being supplied by us. Also we supply thermistors of various types.

