

# GSM Based Temperature & Humidity Alarm Monitor



**GSM Based Temperature & Humidity Monitor** accurately measures Temperature and Humidity with a provision of external sensor to place inside the monitoring area while the Indicator can be mounted outside (Lobby, Corridor etc). This Smart Monitor helps the user to alert remotely by the way of SMS & Email. The Dashboard feature helps the user to view/download/analyse real-time data of temperature and humidity with date and time stamp and graphical or tabular representation.



## Features:

- Standard Temperature Range 0 to 50 Deg.C
- Specially designed Humidity sensor to work in condensed Environment
- GSM based communication model for ease to install at remote locations
- Password Protected Admin level access: meets security compliance
- Bright and Large Backlight display for clear view on the go
- Real time Dashboard view of single/multiple Instruments data in tabular or graphical representation, can be accessed in PC/TAB/MOBILES.
- Standard or Customized Dashboard Interface to meet user specific requirement
- QC/QA certified to meet standard compliance for all kind of critical temperature-maintained environments
- Factory Calibrated device; Calibration certificate provided along with traceable to National Standards (NABL Accredited)



## SMS/Email/Cloud Realtime Alert:

### SMS Alert

- Periodic SMS : SMS at regular time intervals programmable by user
- Alert SMS : SMS on Temperature and Humidity exceeding set limits (Low & High)
- On-Demand SMS : SMS on request from registered mobile numbers  
(SMS Text: ACEIN00)  
Standard provision for registering upto 5 mobile numbers  
(Contact store for customisation)

- Email Alert : Email Alert Notification when parameter value is out of pre-set threshold. Standard Provision for registering multiple (upto 10) Email IDs (Contact store for customisation)

- Cloud Function : Web Based Interface (Mobile/PC/Tab) to view real time data transmitted







# Technical Specifications

Model 1	AI-RHTx-SMS (SMS only)
Model 2	AI-RHTx-IoT1-1 (with Hosting) Features: SMS + Email + Cloud With Hosting at Instrukart's Server
Model 3	AI-RHTx-IoT1-2 (End User Hosting) Features: SMS + E-mail + Cloud at End User's Server
Temperature Measuring Range	0 to 50.0 Deg.C
Accuracy	+/- 0.3 Deg.C
Resolution	0.1 Deg.C
Humidity Measuring Range	0 to 100% RH
Accuracy	± 1.8% for 10 to 95% RH, ± 2% for all other ranges
Resolution	0.1% RH
Display	128 X 64 Dot Matrix Graphical Large LCD Display with White Backlight
Sensor Type	<div>1 Polymer sensing for Temperature</div> <div>2 Capacity polymer sensing for Relative humidity</div> <div>3 Option of Wired External Probe or Integrated Probe fixed to Body</div>
Cable Length	Connecting Cable , pre-wired 3 mtrs. Extension between display monitor & sensor
Additional Cable Length	Available at extra cost, maximum feasibility upto 10 mtrs ( Sensor to Display Unit )
Buzzer	Standard In-Built Buzzer for Alarm. External Buzzer Option also available
Acknowledgement Key	Provided for user to acknowledge the alarm manually, thus avoiding continuous buzzer alarm sound & user attention
Power Supply	12 VDC Input with minimum of 2 Amp current rating. Adaptor provided alongwith
Enclosure	Wall mounting type ABS Plastic Enclosure with Wall Bracket (IP 65 splash proof)
Communication	GSM GPRS module , Standard SIM Slot available: 25 X 15 mm <b>Note:</b> SIM Card, SMS Pack and Data pack to end user scope
GSM Bandwidth	Support for GSM 850 / 900 / 1800 / 1900 MHz(used in most parts of the world). Please follow the link for more details: <a href="https://en.wikipedia.org/wiki/GSM_frequency_bands">https://en.wikipedia.org/wiki/GSM_frequency_bands</a>
Cloud Space Ownership	Please consult Store Option 1 : Hosting at Customer/End User Server. Option 2 : Hosting at Instrukart server (min 1 Year Subscription)
Web Interface Demo	Please consult Store for web link and credentials
Operating Temperature	Safe operating temperature of instrument is 0 to 50°C
Warranty	1 Year Manufacturer Warranty
Calibration	Will be provided at no extra cost and valid for 12 months, traceable to national standards (NABL)
Dimensions	120 X 80 X 60 mm ( H x W x D )
Manufacturer	Ace Instruments

APPLICATION: IT Server Rooms, Data Centre, Smart Homes, Smart Farms, Pharmaceuticals, Medical labs, Hospitals, Cold stockpiles, Cold chains etc...



## WIRELESS TEMPERATURE AND HUMIDITY MONITOR

-  Dashboard
-  Settings
-  User Profile

### Freezer

Room No:01


 Temp (°C)  
**27.8** (18-30)

 Humidity(%RH)  
**44.6** (10-50)

 Signal Strength  
**4** (1-5)

Room No:02


 Temp (°C)  
**30.5** (18-30)

 Humidity(%RH)  
**10.6** (10-50)

 Signal Strength  
**4** (1-5)

Room No:03

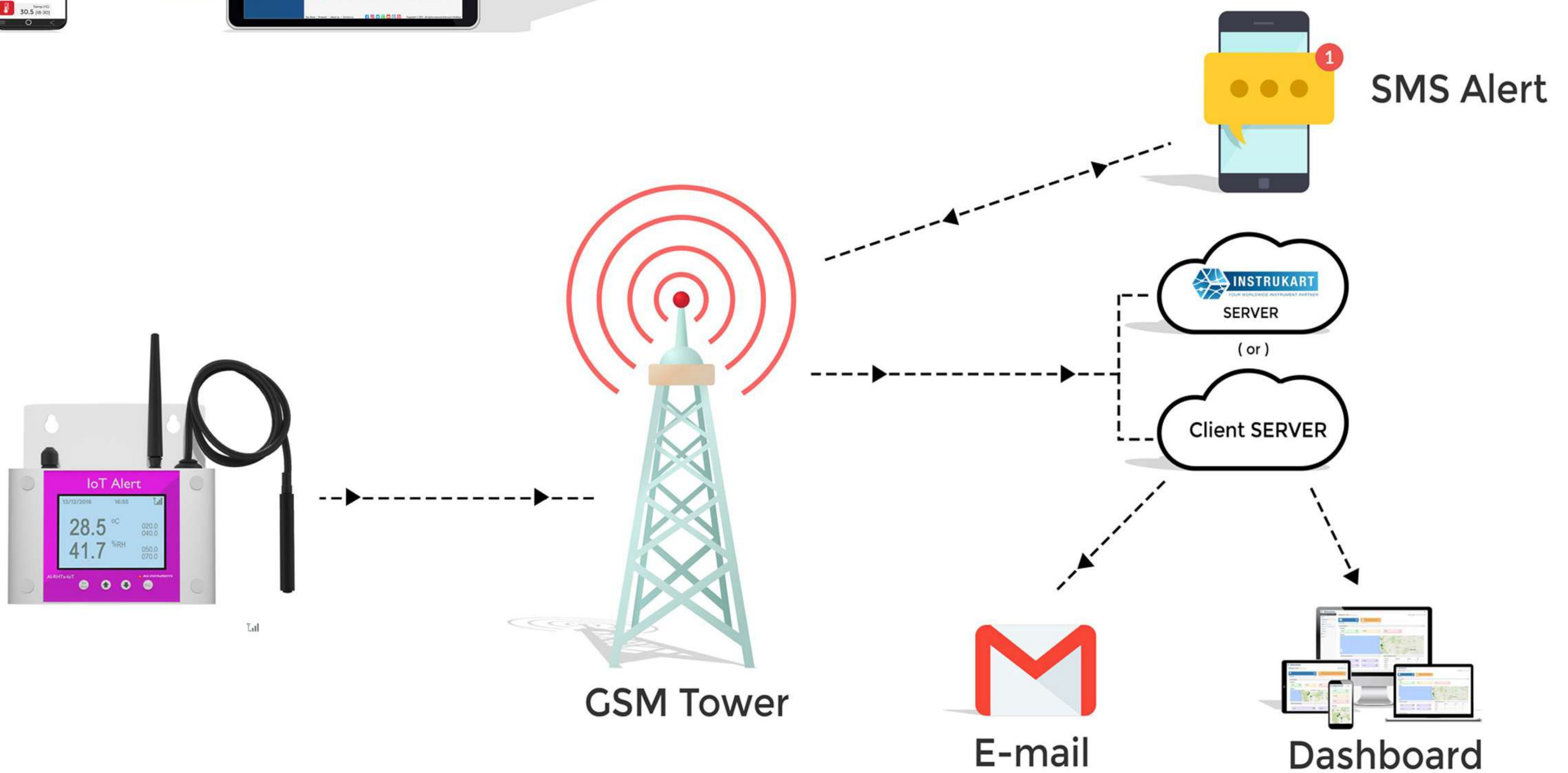

 Temp (°C)  
**18.8** (18-30)

 Humidity(%RH)  
**50.6** (10-50)

 Signal Strength  
**3** (1-5)

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Product Videos: <https://youtu.be/qOzO1DYIc2w>  
<https://youtu.be/q8R1pIPWb6M>

Other models available: Wireless GSM/WiFi/LAN based Temperature Monitor(Standalone),  
 Note: Provision for multiple sensors also available and data can be presented over single Dashboard

Clean Rooms | Pharma | Hospital | HVAC | BulkDrugs | Chemicals | Heavy Machinery  
 Hydraulics & Vacuum Industry | Green House | Server Room | Confined Space | Cold Storage

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