

# Connecting Things to Web

M2M  
IoT  
Smart  
Ecosystems

We make anything  
WIRELESS

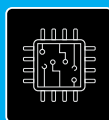


## Industrial Indicators & Cloud Gateways

- GSM / Wi-Fi / LORA / GPS
- Cloud Connectivity
- SMS, E-mail alerts & Voice call alerts
- Application with sophisticated dashboard & reports
- Integration with service requests
- Online automated reports
- Scheduled E-mail Reports



Real-time  
Data



Memory  
Logging



Network failure  
redundancy



Operational  
efficiency

# Technical Specifications for Industrial Indicators



Features	SIS4TRH	SISWDTRH	SIS4WTRH	SISLTRH
<b>No. of Channel/Procvs Values</b>	30+2 (Inbuilt Sensor)	46+2 (inbuilt Sensor)	46+2 (inbuilt Sensor)	2 (inbuilt Sensor)
<b>Connectivity</b>				
• GSM / GPRS	YES	NO	YES	NO
• WiFi	NO	YES	YES	NO
• LoRa	NO	NO	NO	YES
<b>SIM CARD SLOTS</b>	02 NOS	NA	02 NOS	NA
<b>INPUT</b>				
• RS-485 MODBUS RTU	YES	YES	YES	YES (for Configuration)
• TEMP. & HUMIDITY SENSOR	YES	YES	YES	YES
• TEMPERATURE RANGE	0° TO 60°	0° TO 60°	0° TO 60°	0° TO 60°
• HUMIDITY RANGE	Less than 95% Non-Condensing			
<b>OUTPUT</b>				
• RS-485 MODBUS RTU	YES (ON REQUEST)	NO	NO	YES
• MODBUS TCP (Optional)	YES (ON REQUEST)	NO	NO	NO
<b>UNIVERSAL DATA TYPES</b>	SIGNED & BITWISE	YES (ALL)	YES (ALL)	NA
<b>LED INDICATION</b>	04 NOS	04 NOS	04 NOS	03 NOS
<b>ALARM NOTIFICATION</b>				
• VOICE CALL (10 Mobile No.)	YES	NO	NO	NO
• SMS (10 Mobile No.)	YES	from AmbelloT Cloud		VIA GATEWAY
• E-mail (5 E-mail addresses)	YES			VIA GATEWAY
• Scheduled E-mail Reports)	YES			VIA GATEWAY (from Cloud)
<b>FAIL SAFE MEMORY</b>	YES	YES	YES	NO
<b>BUZZER</b>	YES	YES	YES	YES
<b>GPS (Optional)</b>	YES	NO	YES	NA
<b>DATA INTERVAL</b>	1-60 MIN	1-60 MIN	1-60 MIN	NA
<b>DATA LOGGING RECORDS</b>	50000	15000	15000	NA
<b>EVENT LOGGING RECORDS</b>	15000	NO	NO	NA
<b>COMMUNICATION PROTOCOL</b>	MQTT (JSON)	MQTT (JSON)	MQTT (JSON)	NA
<b>DEVICE CONFIGURATION</b>	AEPL IIOT SOFTWARE & SMS CONFIGURATION	AEPL IIOT SOFTWARE & WEB PAGE FOR WIFI SETTINGS	AEPL IIOT SOFTWARE & WEB PAGE FOR WIFI SETTINGS	AEPL IIOT SOFTWARE
<b>SETTABLE ALARMS PER CHANNEL</b>	2	2	2	2
<b>SUPPLY VOLTAGE</b>	9V TO 24V/3 AMP DC			
<b>ENVIRONMENTAL</b>	• OPERATING TEMP. : -10°C TO 50°C • STORAGE TEMP. : -20°C TO 60°C • HUMIDITY : LESS THAN 95% NON-CONDENSING			
<b>HOUSING</b>				
• CABINET MATERIAL	ABS PLASTIC			
• DIMENSION IN MM	150 (W) x 176 (H) x 55 (D)	120 (W) x 176 (H) x 55 (D)	150 (W) x 176 (H) x 55 (D)	150 (W) x 176 (H) x 55 (D)
• WEIGHT	270 GRAMS APPROX			
• MOUNTING	WALL MOUNT			

# Technical Specifications for Cloud Gateways



## Applications

Features	SIS4G485	SIS4D048	SISWD485
<b>No. of Channel/Procss Values</b>	32	48	48
<b>Connectivity</b>			
• GSM / GPRS	YES	YES	NO
• WiFi	NO	NO	YES
• LoRa	NO	NO	NO
<b>SIM CARD SLOTS</b>	02 NOS	02 NOS	NA
<b>INPUT</b>			
• RS-485 MODBUS RTU	YES	YES	YES
<b>OUTPUT</b>			
• RS-485 MODBUS RTU	YES (ON REQUEST)	YES (ON REQUEST)	NO
• MODBUS TCP (Optional)	YES (ON REQUEST)	YES (ON REQUEST)	NO
<b>UNIVERSAL DATA TYPES</b>	SIGNED & Bitwise	YES (ALL)	YES (ALL)
<b>LED INDICATION</b>	04 NOS	04 NOS	04 NOS
<b>ALARM NOTIFICATION</b>			
• VOICE CALL (10 Mobile No.)	YES	NO	NO
• SMS (10 Mobile No.)	YES	from AmbelloT Cloud	
• E-mail (5 E-mail addresses)	YES		
• Scheduled E-mail Reports)	YES		
<b>FAIL SAFE MEMORY</b>	YES	YES	YES
<b>BUZZER</b>	YES	YES	YES
<b>GPS (Optional)</b>	YES	YES	NO
<b>DATA INTERVAL</b>	1-60 MIN	1-60 MIN	1-60 MIN
<b>DATA LOGGING RECORDS</b>	50000	15000	15000
<b>EVENT LOGGING RECORDS</b>	15000	NO	NO
<b>COMMUNICATION PROTOCOL</b>	MQTT (JSON)	MQTT (JSON), HTTP, TCP-IP	MQTT (JSON)
<b>DEVICE CONFIGURATION</b>	AEPL IIOT SOFTWARE & SMS CONFIGURATION	AEPL IIOT SOFTWARE	AEPL IIOT SOFTWARE & WEB PAGE FOR WIFI SETTINGS
<b>SETTABLE ALARMS PER CHANNEL</b>	2	2	2
<b>SUPPLY VOLTAGE</b>	9V TO 24V/3 AMP DC		
<b>ENVIRONMENTAL</b>	• OPERATING TEMP. : -10°C TO 50°C • STORAGE TEMP. : -20°C TO 60°C • HUMIDITY : LESS THAN 95% NON-CONDENSING		
<b>HOUSING</b>			
• CABINET MATERIAL	ABS PLASTIC		
• DIMENSION IN MM	150 (W) x 90 (H) x 55 (D)		
• WEIGHT	270 GRAMS APPROX		
• MOUNTING	WALL MOUNT		



Sub-station Monitoring



Cold Storage Monitoring



Electrical Distribution Automation



E-charging Point



Generator Monitoring



Environment Monitoring



Manufacturing Monitoring



Automatic Meter Reading



Water Monitoring



Solar Energy Monitoring



Smart Energy Monitoring

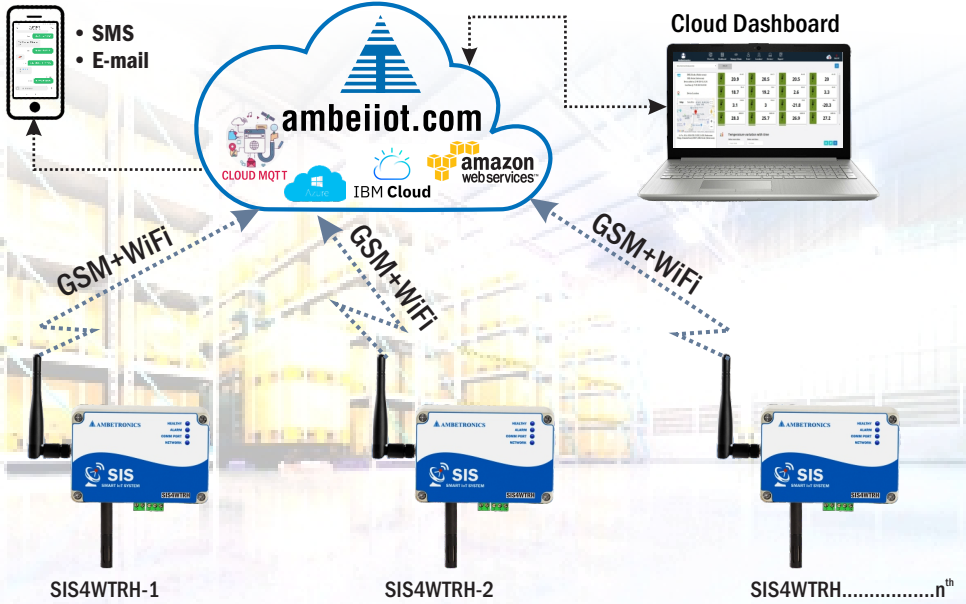


Self-Service Kiosk

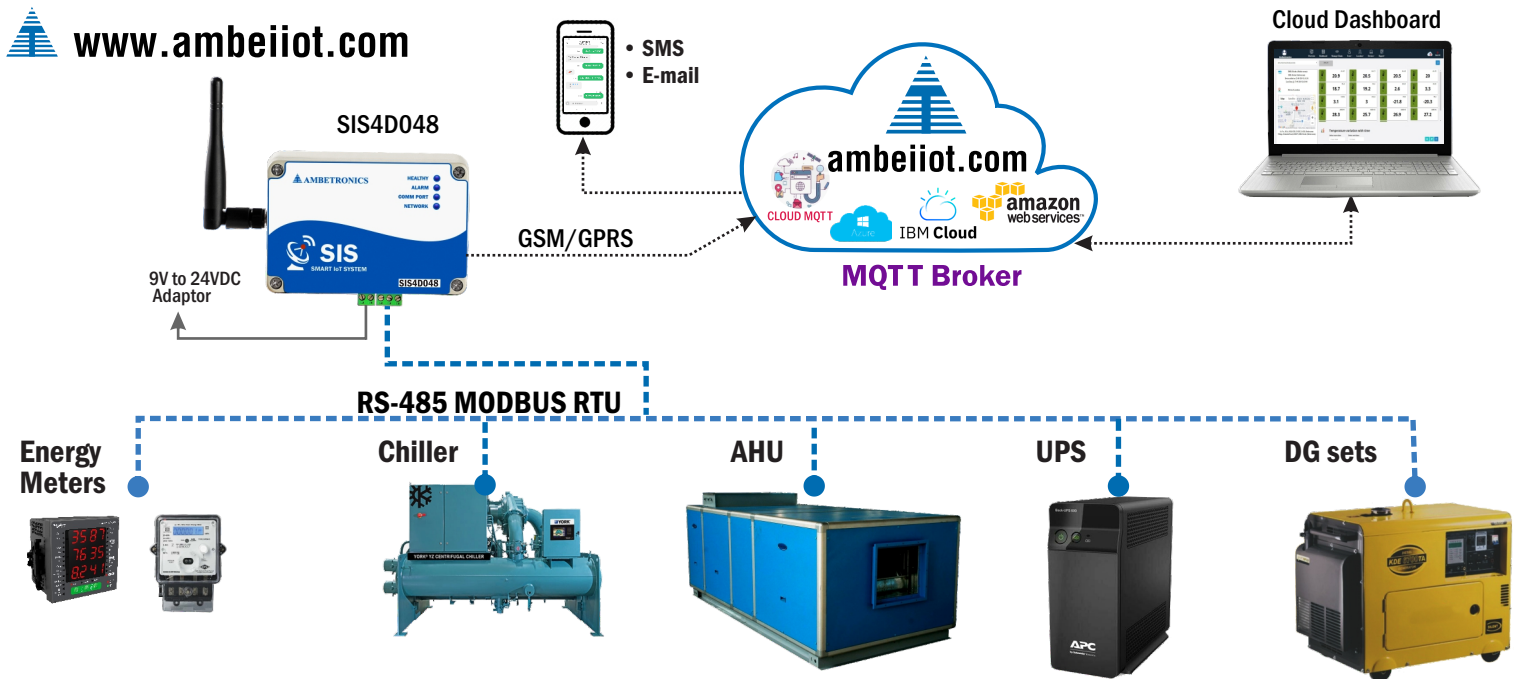
# Cold Chain Monitoring System

## Applications :

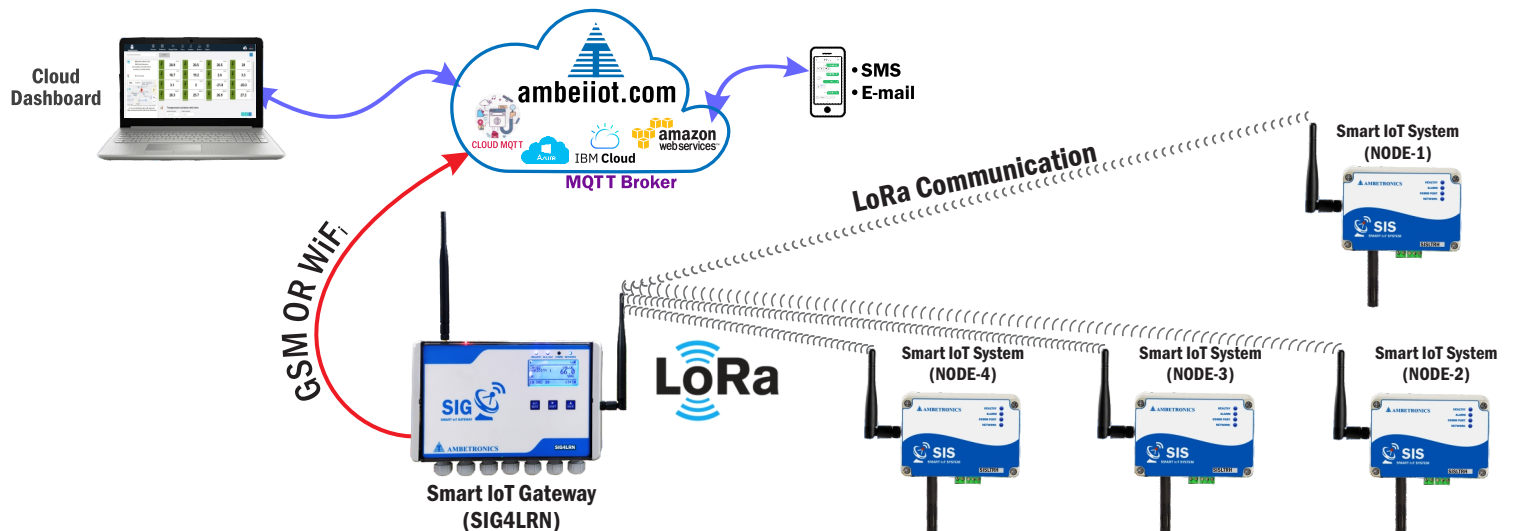
- Ambient Room Temp. & RH Monitoring
- Cold Room
- Warehouse
- Chiller and Freezer
- HVAC
- Medical Industry
- Pharma and Food Industry
- Chemical Industry
- Agriculture Industry
- Power Plant



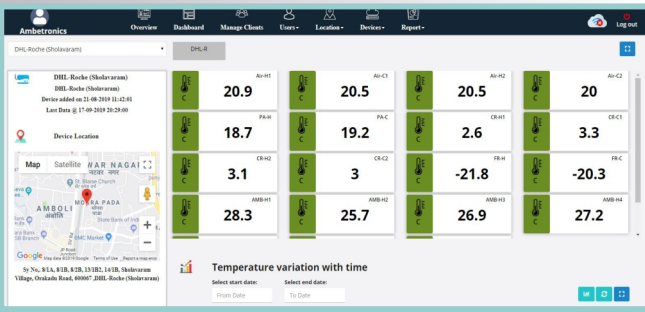
# Energy Management System



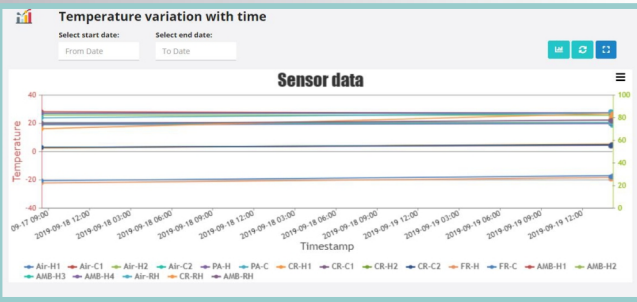
# Wireless Temperature & Humidity Monitoring System



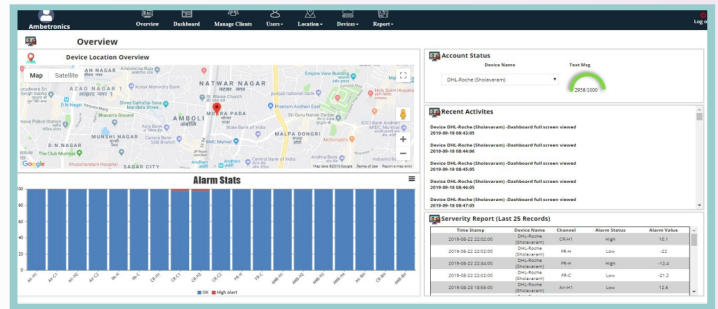
DASHBOARD



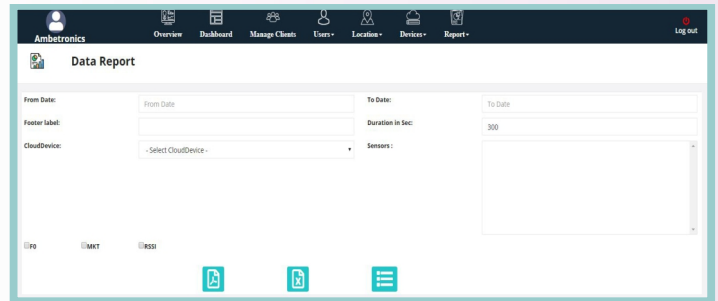
LIVE GRAPH



OVER VIEW



REPORTS



Notification (SIS4G485) E-mail Notification

SIS-AMBETRONICS <tixi@ambetronics.com>  
SIS-AMBETRONICS @07/07/20 14:34

CH:02 (TRH DETECTOR)  
ST: AL-1-2:HIGH  
PV: +79.5 %RH  
TM: 07/07/20 14:34  
LOC: DEMO ROOM  
UID: SIS367572  
RSSI: -81

SIS-AMBETRONICS <tixi@ambetronics.com>  
SIS-AMBETRONICS @07/07/20 14:35

CH:01 (TRH DETECTOR)  
ST: AL-1-2:HIGH  
PV: +27.9 DEGC  
TM: 07/07/20 14:35  
LOC: DEMO ROOM  
UID: SIS367572  
RSSI: -81

Notification (SIS4G485) SMS Notification

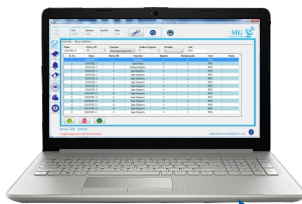
CH:02 (TRH DETECTOR)  
ST: AL-1-2:HIGH  
PV: +79.5 %RH  
TM: 07/07/20 14:34  
LOC: DEMO ROOM  
UID: SIS367572  
RSSI: -81

6:17 pm

CH:01 (TRH DETECTOR)  
ST: AL-1-2:HIGH  
PV: +27.9 DEGC  
TM: 07/07/20 14:35  
LOC: DEMO ROOM  
UID: SIS367572  
RSSI: -81

5:17 pm

PC Software



Device Configuration



SMS Configuration



USB TO RS-485 Converter

Via SMS

Manufactured by :



**AMBETRONICS ENGINEERS PVT. LTD.**  
17-B, Tarun Industrial Estate, Mogra Pada, New Nagardas Road, Andheri (E.) Mumbai - 400 069, India.

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