CRITICAL INFRASTRUCTURE MONITORING SYSTEM

MONITOR YOUR CRITICAL FACILITY & SAFEGUARD

- Generator Fuel Level
- Temperature & Humidity
- Precision Air Conditioning
- Battery Monitoring
- Harmful Gas & Particle Detection
- Water Leak Detection
- Access Control
- CCTV
- Fire Alarm
- Lighting Control
- Electric Energy Meter
- UPS Monitoring

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DATOS-CM offers wide range of innovative solutions for Critical Infrastructure Monitoring, Data Center & Environmental Monitoring Systems and Early Detection Products & Solutions. DATOS IoT manufactures complete range of monitoring systems that enable customers to monitor their facilities through a web browser and sensor data for factors like temperature, humidity, airflow, light, sound, power, water leakage and more, showing current and historical data and providing Email, SMS and SNMP alert notifications under abnormal conditions.

Our range of solutions includes…

- Environmental Protection for Large Data Centers
- Generator Fuel Level & Monitoring
- Power Environment Monitoring
- Precision Water Leak Detection System
- Particle & Harmful Gas Detection
- Intelligent Air Conditioning Controller
- Central Battery Monitoring System
- Lighting Control System

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SYSTEM OVERVIEW

Water Leak Detection System protects your Data Center & Server Room equipment from damaging water leaks from malfunctioning of general plumbing failure or HVAC systems or other accidents in your facilities.

The water leak detection system is used for detecting the water leakage with unique dual source wheel seized algorithm, can precisely locate position. It’s been connected with water leakage sensor cable and shall send the audible and visual alarm. At the same time, it can control one channel digital signal, and plays its role of linkage.

CM-WLDCP has a RS-485 communication port that is been connected with the sensors and workstation. The user can view the water leak area through the software which shows the exact location of the water leak on the CAD map and remote monitoring as well as email alarm via the network.

APPLICATION

The leakage detection system has been widely used in Data Centers, Server Rooms, Strong Room in banks, Telecommunication facilities, water pipelines, Air Conditioning equipment, Intelligent Buildings, Libraries, Clean Factories and other sensitive places that needs leakage detection.

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PRECISION WATER LEAK DETECTION SYSTEM

FEATURE

1) Ultimate Accuracy with precise location
2) Unique double-source wheel detection algorithm with the great accuracy rate
3) Environmental protection with simplified wiring structure
4) Intuitive with LCD screen
5) Direct display of the water leak area and its position
6) Easy to operate & do not need special maintenance.
7) The system is scalable. Can be monitored remotely via network
8) Stable system and will work all year round the year
9) Software shows the exact location of the water leak on the CAD map
10) Easy to install, easy to use, can be used as stand-alone
# TECHNICAL SPECIFICATION OF THE CONTROL PANEL

## DATA INTERFACE

<table>
<thead>
<tr>
<th>Sensor interface</th>
<th>1 channel special interface</th>
<th>Accuracy</th>
<th>Accuracy error ±0.2m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor interface</td>
<td>1 channel light output interface (Normally Open NO)</td>
<td>1 channel</td>
<td>300M</td>
</tr>
<tr>
<td>Storage Environment</td>
<td>Temperature</td>
<td>5℃~30℃</td>
<td></td>
</tr>
<tr>
<td>Storage Environment</td>
<td>Humidity</td>
<td>30~90 %RH No condensation</td>
<td></td>
</tr>
<tr>
<td>Working environment</td>
<td>Temperature</td>
<td>0℃~70℃</td>
<td></td>
</tr>
<tr>
<td>Working environment</td>
<td>Humidity</td>
<td>0%~95%RH No condensation</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>DC12V 200mA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Model No : CM-WLC-10M
Product : Water Leakage Detector Cable
Description : High sensitive leak detection cable

1) High sensitive leak detection cable
2) Made of the most advanced conductive fluoropolymer material
3) The cable has strong mechanical properties, chemical resistance and abrasion resistance
4) Each cable has two dedicated transmissions
5) Cable senses water intrusion; then it triggers an alarm and points the location
6) The maximum operating temperature is 75°C
7) The cable is compact and lightweight, flexible and easy to install
8) The smooth design features facilitate the rapid drying of the cable

WATER LEAK DETECTION: ACCESSORIES

CM-WLLC Leader Cable
The water detection modular leader cable is used to provide a non-sensing link between the control panel and the start of the water leak detection sensing cable.

CM-WLEL Termination End
The Modular End Termination is connected to the last connector on a run of CM-WLC-10M Water leak detection sensing cable.

CM-WLCF Hold-Down Clip
Hold Down Clips provide a simple and effective method of fixing leak detection cables. A water detection hold-down cable clip used to fix Sensing Cables

CM-WLJB Branch Box
Leak detection sensor cable splitter (Junction Box). The controller detects only the length of the splitter itself, 1-2, and 2-3 are equivalent to 5 meters of sensing lines, respectively.

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REGIONAL LEAK MONITORING LEAK ALARM (SINGLE ZONE)

Model No: CM-SZWLD (Single-Zone Water Leakage Detector)

FEATURE

1) Monitor leak detection line up to 300m
2) Leak detection rope, relay output, power supply completely isolated, will not interfere with each other
3) Four LED indicators, power supply, self-test, leak detection and detection Open
4) Sensitivity is adjustable
5) Support sound alarm (optionally closed)
6) Rail-mounted industrial installation
7) All-way relay output (leakage and fault)
8) Suitable for small and medium-sized areas
9) Flexible alarm notification
10) Simple installation
11) Environmental Pro

1) Power Supply Terminal V +, V-, 12~24v DC Voltage
2) Relay output, COM common, NC normally closed, NO normally open
3) Leak detection rope input, CK1, CK2, regardless of positive and negative

PRODUCT OVERVIEW

Regional Leakage Monitoring Leakage Alarm is a single-zone leakage monitoring product. It can monitor whether there is any leakage in the leakage monitoring line area, and can continuously monitor the leakage detection line of up to 300 meters for leakage or failure.

When the CM-SZWLD detects that there is water leakage, the detection cord is not loose, or it is short-circuited, the CM-SZWLD can automatically notify you by means of the panel indicator display and voice prompts. The sound notification mode can be turned on or off through the setting mode. The user can also adjust the monitoring sensitivity to reduce false alarms.

CM-SZWLD as a reliable leak detection solution, the system can prevent flood damage, reduce business costs and down time.
REGIONAL LEAK MONITORING LEAK ALARM (SINGLE ZONE)
Model No: CM-SZWLD (Single-Zone Water Leakage Detector)

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>12 to 24V DC, 100mA max, (non-standard)</td>
</tr>
<tr>
<td>Enter</td>
<td>Leak detection rope (non-standard)</td>
</tr>
<tr>
<td>Maximum leak detection rope length</td>
<td>300 meters</td>
</tr>
<tr>
<td>Detection Response Time</td>
<td>5 seconds</td>
</tr>
<tr>
<td>Sound Alarm</td>
<td>80 Fenbei 0.6M</td>
</tr>
<tr>
<td>Output</td>
<td>1 Relay Output (liquid discovery and fault alarm), 1A @ 24vDC, 0.5A @ 120vAC. DO</td>
</tr>
<tr>
<td>Isolated Voltage</td>
<td>1000v DC</td>
</tr>
</tbody>
</table>

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PROFESSIONAL WATER LEAKAGE DETECTION CABLE (10 METRES)

Model No: CM-SZWLSC (Single-Zone Water Leakage Sensor Cable)

Zone leak detection rope is mainly used for water detection and is applicable to the leakage detection of data center subfloors, telecommunication rooms, HVAC equipment areas, pipelines, power rooms, storage rooms, large sinks and roofs. The cable is fluorinated polymer structure, corrosion resistance, high wear resistance, maximum operating temperature 75 °C.

1) Using special detection cables made of the most advanced conductive fluoropolymer material, which have strong mechanical properties, chemical and abrasion resistance.
2) Each cable has two dedicated transmissions. Sense line and fluoropolymer composition, the detection line embedded in the fluoropolymer skeleton, without any metal exposure, and even repeated use in a corrosive environment;
3) The cable is compact and lightweight, flexible and easy to install;
4) The smooth design features facilitate the rapid drying of the cable.

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Conductive Polyethylene + Alloy Wire</td>
</tr>
<tr>
<td>Ten meters gross weight</td>
<td>330g (with lead 2 meters)</td>
</tr>
<tr>
<td>Winding diameter</td>
<td>6.0mm</td>
</tr>
<tr>
<td>Core</td>
<td>Two-core spiral</td>
</tr>
<tr>
<td>colour</td>
<td>blue</td>
</tr>
<tr>
<td>Detect Core Resistance</td>
<td>12.6 ohms /100 meters</td>
</tr>
<tr>
<td>Maximum Exposure Temperature</td>
<td>75 °C</td>
</tr>
</tbody>
</table>

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• Is your data room really safe?
• Can it withstand even a second of power interruption?
• UPS power supply system is it ready for the task?
• Manuel quarterly test four times a year enough to maintain the remaining 361 days?
Why Intelligent battery monitoring is needed?

- Acceleration in battery internal resistance flags up at the time a battery cell is likely to fail.
- Uninterrupted power rely on a robust battery array were a week link can cause unpredictable outcome.
- In a major power outage, 70% of accidents are related to battery failure, and the battery is a short board for the reliability of the entire power supply system.
- Normal life of a Battery is 10 years, but within a year there will be 1 to 2% of the battery failure, maintenance failure can cause life cycle will be shorter and shorter quarterly maintenance is not enough to keep the batteries robust.
- A single battery defect can compromise the entire cluster causing the entire power backup to fail.
- Visual on the surface will not revile the inside changes that may lead to failure.
- “Maintenance-free” The misleading term used will result in 90% of the batteries lack of maintenance, the result is: Failure to perform.

Battery Monitoring System

- Batteries are often used as energy storage devices for backup power and are only used in the event of a power outage. It may be not used for a few years, so the routine maintenance of the battery is very easy to be ignored. Only in the event of a power outage we will know the battery failure and the whole purpose of backup power is compromised. That's why at DATOS we engineered the third generation intelligent battery monitoring system.
- This third generation battery online monitoring system uses a single module architecture. With flexible installation, high accuracy, high system security advantages. Is currently the most customer approved system. At the same time monolithic products to achieve the previous two generations do not have the function of monitoring cell temperature. International Standard TIA942 clearly stipulates that the four factors to be monitored.

Failure of one battery can cause entire power backup supply to fail when emergency power is urgently needed. Neglected battery maintenance can cause catastrophic results and even life safety.
DATOS intelligent monitoring system is online automatic battery performance testing and reporting system. With flexible and convenient installation, high reliability and intelligent algorithms, high anti-interference ability and stability, can adapt to a variety of complex applications, to provide you with safe and reliable battery monitoring and management solutions.

Monitoring parameters

- Monomer voltage
- Monomer resistance
- Monomer temperature
- Ambient temperature
- UPS total voltage
- Battery charge and discharge current

Optional Device Monitoring

- Hydrogen sensor (H2)
- Water leak detection
- Air Conditioner control
- UPS status
- Smoke & Fire Detection

DATOS 24 X 7 intelligent real-time monitoring gives timely detection of degraded batteries, significantly reduce the risk of battery outage due to battery failure.

Save battery costs according to the monitoring data promptly remove the abnormal battery, to avoid damage to other batteries, extend the battery life of the entire group.

Manual maintenance of a faulty battery with unknown status can cause injury to the personal including severe burns.
System Advantages

Monolithic modular design, flexible installation to adapt to various occasions. Data collection frequency up to 10 seconds once. With strong anti-interference, suitable for the latest high-frequency UPS Patented communication bus, high stability. Innovative temperature sensor, precise temperature measurement for easy maintenance. Innovative battery connection terminal, easy installation and removal. Independent intellectual property software algorithms, internal resistance measurement repeatability <1%. Four-wire Kelvin connection, more accurate battery resistance test.

Product advantages

Patented easy install terminals

Accurate measurement of external battery temperature

Four wire Kelvin connection method to measure the resistance accurately.

Side mount design with strong and week electrical isolation

High immunity communication bus for stable and accurate results.

Kelvin Connection

This method of measurement which avoids errors caused by wire resistance is called the Kelvin, or 4-wire method. Special connecting clips called Kelvin clips are made to facilitate this kind of connection across a subject resistance:
# Technical Parameters

<table>
<thead>
<tr>
<th>Module type</th>
<th>Low voltage type</th>
<th>High voltage type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable battery type</td>
<td>2V, 3.7V battery</td>
<td>6V, 12V battery</td>
</tr>
<tr>
<td>Monomer voltage measurement range</td>
<td>1.5V~5V</td>
<td>5V~16V</td>
</tr>
<tr>
<td>Single resistance measurement range</td>
<td>0.01~40mΩ</td>
<td>0.1~80mΩ</td>
</tr>
<tr>
<td>Monomer voltage measurement accuracy</td>
<td>±0.2%</td>
<td></td>
</tr>
<tr>
<td>Single resistance measurement accuracy</td>
<td>±2%</td>
<td></td>
</tr>
<tr>
<td>Monomer temperature measurement range</td>
<td>-10^{0}c ~ 70^{0}c</td>
<td>External sensor: ± 1^{0}c; Built-in sensor: ± 3^{0}c</td>
</tr>
<tr>
<td>Current measurement range</td>
<td>0~1000A</td>
<td></td>
</tr>
<tr>
<td>Current measurement accuracy</td>
<td>±1%</td>
<td></td>
</tr>
<tr>
<td>Battery voltage measurement accuracy</td>
<td>±0.2%</td>
<td></td>
</tr>
</tbody>
</table>

## System Parameters

- **Communication Interface**: RS232/485, LAN
- **System supply voltage**: 220VAC / 24VDC / 48VDC (optional)
- **Each monitoring unit can monitor the maximum number of batteries**: Units 254
- **Each monitoring unit can access the maximum number of battery packs**: 6 groups
- **Monitor management unit power consumption**: <5W
- **Impedance acquisition module power consumption**: <0.35W
- **Safe isolation voltage**: >4KV

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**Devices**

**Battery internal resistance acquisition module Rsensor**

**Function:** Monitors battery voltage, internal resistance, temperature

**Configuration quantity:** one for each battery

<table>
<thead>
<tr>
<th>Low-pressure Type</th>
<th>High-pressure Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM-B3KRS-L-E</td>
<td>CM-B3KRS-H-E</td>
</tr>
<tr>
<td>CM-B3KRS-L-T</td>
<td>CM-B3KRS-H-T</td>
</tr>
</tbody>
</table>

**Model:** CM-00IS

**Function:** To monitor the battery current, to be used with the Hall current sensor.

**Configuration Quantity:** Each battery cluster

**Battery current acquisition module Isensor**

**Model:** CM-00CS

**Function:** Summarize single battery, current data, handle alarm information and upload data.

**Interface:** RS232 / 485, LAN interface, MODBUS communication protocol.

**Configuration Quantity:** One per UPS

**Monitoring Management Unit (Smart)**

**Model:** CM-S416D

**Data Host Server**

Robust Linux OS
Dual redundant power supply
Dual LAN port
Built-in Water leak detection
Built in digital and analog inputs and outputs
RS485, 232 and TCP/IP communication

**SMS / Email Notification / Mobile App**

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Graphical display interface, easy to find abnormal battery. Detailed alarm classification, can record the process and measures. With alarm SMS notification function (optional SMS module). Save and analyze battery history data. Custom export year, month, date report data etc...

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DATOS-CM’s Critical Infrastructure & Environmental Monitoring System (CIEMS) simplifies, automates and manages critical infrastructure in and around the facility to optimize efficiency.

**ADVANTAGE OF DATOS-CM**

1) Ensure continuous monitoring across entire facility
2) Centralized management of the physical infrastructure such as:
   - Precision Air conditioning,
   - Particle & Harmful Gas Detection
   - Generator Fuel Levels
   - Temperature & Humidity
   - Water Leak
   - Electric Energy Metering
   - Lightening
   - Central Battery Monitoring
   - UPS Monitoring
   - Lighting Control
   - CCTV
   - Access Control
   - Intrusion & Fire Alarm etc...
3) See your entire physical infrastructure through centralized, real-time device monitoring.
4) Efficiently monitor your company-wide multi-vendor physical infrastructure.
5) Access a central repository from anywhere on the network through a powerful console application.
6) Receive user-defined reports and graphs, and instant fault notification of critical infrastructure events.
7) Instant fault notification and escalation enable quick resolution of critical infrastructure events, supporting your facility and Management processes.

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PRODUCT OVERVIEW

The system is specially designed for environmental monitoring of entire Facility, IDC Room, Generator Room, Datacenters and Remote unmanned facilities with the respective filed related sensors. The facility management team can monitor the power supply, air switch, lightning protection device, generator, UPS, battery, precision air conditioning, commercial air conditioning, fresh air system, lighting, temperature and humidity, harmful gas, fire, water etc.

Once the infrastructure-related parameters are abnormal, the management system will automatically notify the relevant management personnel through SMS, cable, mail, sound and light alarm, audio, etc., to ensure that the room equipment failure, can be found and resolved problem.

SYSTEM FEATURES

• ALL-IN-ONE design, highly integrated power environment monitoring alarm function in one system

• RS485\DI interface with RJ45 standard interface, built-in POE power supply mode, no external power supply, wiring simple and quick.

• Motherboard with ARM architecture, embedded Linux operating system, the software using B / S structure, no need to install additional servers and software to support mobile phone APP applications;

• Built-in leak detection module, the device only need to add a leak detection cable or sensor unit can be;

• Host built-in SMS, telephone voice alarm;

• 1 Channel audio interface for access to the broadcast system or live audio alarm, support English and Chinese;

• Multi-channel communication port, including 4 RS232 interface, 4 RS485 with isolation interface, 2 10/100 / 1000M Ethernet interfaces, 16DI.

• 1U / 19-inch standard chassis, front and rear can be replaced to installed;

• Dual power supply redundant input, input voltage: AC100-240V;

• Industrial standard design, stable and reliable, can be work 7x24h in -20- 70 environment.
## TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT</td>
<td>DIGITAL INPUT</td>
<td>16 DIGITAL INPUT, Built-in DC12V power supply, MAX current: 1.5A</td>
</tr>
<tr>
<td></td>
<td>LEAK SENSOR</td>
<td>1 LEAK SENSOR INPUT</td>
</tr>
<tr>
<td>OUTPUT</td>
<td>DIGITAL OUTPUT</td>
<td>2 RELAY~AC250V/3AOR DC30V/3A</td>
</tr>
<tr>
<td>PORT</td>
<td>SERIAL PORT</td>
<td>4 RS232:1200~115200bps default 9600</td>
</tr>
<tr>
<td></td>
<td>ETHERNET</td>
<td>2 10/100/1000M</td>
</tr>
<tr>
<td>POWER SUPPLIER</td>
<td>INPUT</td>
<td>AC100~240V</td>
</tr>
<tr>
<td></td>
<td>WATT</td>
<td>72W</td>
</tr>
<tr>
<td></td>
<td>REDUNDANT</td>
<td>DUAL POWER SUPPLY REDUNDANT INPUT</td>
</tr>
<tr>
<td></td>
<td>SWITCH TIME</td>
<td>&lt;10ms</td>
</tr>
<tr>
<td>ENVIRONMENT</td>
<td>TEMP</td>
<td>-20°C ~ 70°C</td>
</tr>
<tr>
<td></td>
<td>HUMI</td>
<td>5%RH 95%RH</td>
</tr>
<tr>
<td>OTHER</td>
<td>HOST SIZE</td>
<td>439mm<em>216mm</em>45mm N.W 3.9Kg</td>
</tr>
<tr>
<td></td>
<td>PACKAGE SIZE</td>
<td>625mm<em>300mm</em>100mm G.W 4.8Kg</td>
</tr>
</tbody>
</table>

### PANEL DESIGN

![Panel Design Diagram](image)

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<table>
<thead>
<tr>
<th>S/N</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>USB</td>
<td>Reserved</td>
</tr>
<tr>
<td>2</td>
<td>LAN1</td>
<td>10/100/1000M</td>
</tr>
<tr>
<td></td>
<td>LAN2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>RS485 INTERFACE</td>
<td>4 RS485: 1200~19200bps default 9600</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Built-in DC12V power supply, MAX current: 1A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RS485-1: 3004 SYSTEM PORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RS485-2: 3005 SYSTEM PORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RS485-3: 3006 SYSTEM PORT</td>
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<tr>
<td></td>
<td></td>
<td>RS485-4: 3007 SYSTEM PORT</td>
</tr>
<tr>
<td>4</td>
<td>DIGITAL INPUTS</td>
<td>16 DIGITAL INPUT,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Built-in DC12V power supply, MAX current: 1.5A</td>
</tr>
<tr>
<td>5</td>
<td>LEAK ALARM</td>
<td>ALARM LED</td>
</tr>
<tr>
<td>6</td>
<td>LEAK SENSOR</td>
<td>LEAK SENSOR INPUT</td>
</tr>
<tr>
<td>7</td>
<td>AC1</td>
<td>AC1 INPUT LED</td>
</tr>
<tr>
<td></td>
<td>AC2</td>
<td>AC2 INPUT LED</td>
</tr>
<tr>
<td>8</td>
<td>AC INPUT1</td>
<td>MAIN AC INPUT</td>
</tr>
<tr>
<td>9</td>
<td>AC INPUT2</td>
<td>AUX AC INPUT</td>
</tr>
<tr>
<td>10</td>
<td>FAN</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>COM NC NO</td>
<td>RELAY OUTPUT, COM-C NORMAL CLOSE-NC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NORMAL OPEN-NO</td>
</tr>
<tr>
<td>12</td>
<td>+12V GND</td>
<td>DC12V POWER SUPPLIER, MAX CURRENT: 1A</td>
</tr>
<tr>
<td>13</td>
<td>GSM</td>
<td>GSM module LED</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WORK: FLASH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DIALING: ON</td>
</tr>
<tr>
<td>14</td>
<td>DIAL</td>
<td>DIAL LED</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STANDBY: OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DIALING: ON</td>
</tr>
<tr>
<td>15</td>
<td>LINE</td>
<td>TEL LINE LED</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ONLINE: ON</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OFFLINE: OFF</td>
</tr>
<tr>
<td>16</td>
<td>AUDIO OUT</td>
<td>AUDIO OUT PORT, FOR THE SPEAK.</td>
</tr>
<tr>
<td>17</td>
<td>SIM</td>
<td>2G/3G SIM CARD</td>
</tr>
<tr>
<td>18</td>
<td>TEL LINE</td>
<td>TEL LINE INPUT</td>
</tr>
<tr>
<td>19</td>
<td>ANT</td>
<td>GSM ANT</td>
</tr>
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WATER LEAK DETECTION

TEMPERATURE & HUMIDITY

PHASE/VOLTAGE MONITORING SYSTEM

AIR CONDITION MONITORING

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1. TEMPURATURE AND HUMIDITY SENSOR

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4. UPS

5. PRECISION WATER LEAK SENSOR

6. PRECITION AIR CONDITIONING

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