



# Ares 12 LTE

Industrial measuring and monitoring for 14 sensors, communication over GSM/LTE and back-up power



Battery



1-Wire sensors



Digital inputs



SMS notifications



E-mail notifications



Data logging



USB data port



SensDesk portal compatible

*Ares 12 LTE is an industrial unit for remote monitoring and alarming over GSM/LTE for locations without LAN access. Includes battery backup. Connect up to 14 external sensors and 2 dry contact detectors.*

*Use the SensDesk portal to **configure** the Ares LTE, **send alarms** or **display graphs**.*

*Ares LTE monitors the readings of connected sensors. When a value reaches the alarm threshold, the device **sends an e-mail** or a **text message (SMS)**, or **dials** specified numbers.*

*Ares LTE products are ready for **remote mass deployment** using FOTA (Firmware Over The Air).*

Connect up to **14 sensors** or a relay output extender unit over the **1-Wire/1Wire UNI bus** (RJ11) and up to **2 dry contact inputs** for external detectors.

Data can be sent in **e-mail** attachments or downloaded **via USB**. Display the data using the SensDesk portal, its iOS or Android mobile version, or third-party apps (Nagios etc.).

The device can be **configured remotely** at the "AresConf" tab in the SensDesk portal. Remote firmware upload (FOTA) capability makes Ares LTE devices ideal for large-scale deployments.

Alarms are notified by **calling** and **texting** up to 5 numbers, **e-mailing** up to 5 addresses, or via the **SensDesk** portal.

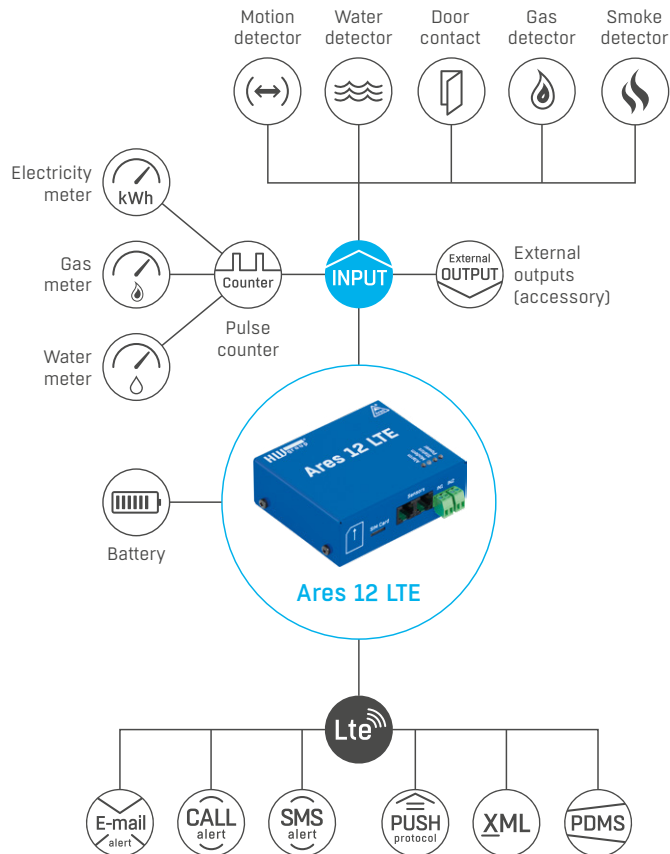
Ares 12 LTE includes an internal battery that provides back-up power for up to 24 hours.

The "Tset" start set includes a temperature sensor with a cable that can be extended to up to 60m.

Ares 12 LTE can be mounted to a wall or a DIN rail.

## Typical application examples

- GPRS monitoring of machines and their environment
- ATMs – environment monitoring without tampering with the connection
- Art exhibits and depositories
- Storages of food or materials
- Cooling systems and coolers



## Differences between Ares 12 LTE vs. Ares 10 LTE

|                                   | Ares 12 LTE | Ares 10 LTE |
|-----------------------------------|-------------|-------------|
| 1-Wire UNI sensors                | 14x         | 3x          |
| External Relay Outputs compatible | ✓           | ✗           |
| Battery                           | ✓           | ✗           |

## Versions and related products



**Ares 12 LTE plain**  
14x 1-Wire UNI, 2x DI, device with battery only



**Ares 12 LTE set**  
Bulk + temperature sensor, power adapter, GSM antenna, USB cable and CD with software



**Ares 10 LTE**  
3x 1-Wire UNI, 2x DI



**Expander 4xDI 1W-UNI**  
Expands one 1-Wire UNI to four digital inputs



**Converter 2xPt100 1W-UNI**  
Double converter for Pt100 and Pt1000 probes

| Connection          |  |
|---------------------|--|
| Interface           | FDD LTE band: B1/B3/B5/B7/B8/B20<br>WCDMA band: B1/B5/B8<br>GSM band: 900/1800 GPRS multi-slot class 12<br><br>Class 4 (33 dBm ±2 dB) for GSM900<br>Class 1 (30 dBm ±2 dB) for DCS1800<br>Class E2 (27 dBm ±3 dB) for GSM900 8-PSK<br>Class E2 (26 dBm ±3 dB) for DCS1800 8-PSK<br>Class 3 (24 dBm +1/-3 dB) for WCDMA bands<br>Class 3 (23 dBm ±2 dB) for LTE FDD bands |
| Supported protocols | IP: TCP, UDP, HTTP, SNMP, SMTP, HWg-PUSH   |

| Sensors         |   |
|-----------------|---|
| Type            | HWg original accessories: 1-Wire & 1-Wire UNI |
| Connector       | RJ11 (1-Wire Bus)                             |
| Sensors         | Up to 14 sensors                              |
| Sensor distance | Up to 60m                                     |

| Dry contact inputs |  |
|--------------------|--|
| Port               | I1, I2   |
| Type               | Digital Input (supports NO/NC Dry contact)                                     |
| Sensitivity        | 1 (0n) = 0-500 Ω (Right pin on the terminal block can be connected to 12V GND) |
| Max. distance      | Up to 50m  |

| Power input |   |
|-------------|---|
| Port        | 9-30V DC  |
| Type        | Main device power input (typically 500 mA)              |
| Connector   | Jack (barrel, inner 2,1mm outer 5,5mm) + Terminal Block |

| Physical parameters |  |
|---------------------|--|
| Temperature range   | Operating: 5 to +50 °C (+41 to +122 °F)<br>Storage: -25 to +85 °C (-13 to +185 °F) |
| Dimensions / Weight | 76×93×31 mm / 150 g  |
| EMC                 | CE - EN 55022, EN 55024, EN 61000  |

## Configuration interface