



Ares 10 LTE

Low-cost GSM/LTE thermometer with remote management and alarming via calls, texts or e-mail



3 1-Wire / 1-Wire UNI sensors

2 Digital input

5 SMS alert notifications

5 E-mail alert notifications

Buffer data logger

USB data port

SensDesk portal compatible

XML interface

Ares 10 LTE is a cost-effective **GSM/LTE** thermometer for remote monitoring and alerting over GSM for locations without LAN access. Connect up to **3 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 **3 sensors** over the **1-Wire / 1-Wire UNI (RJ11)** bus (max 3 measured values) and up to **2 digital dry contact inputs** for external detectors.

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

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.

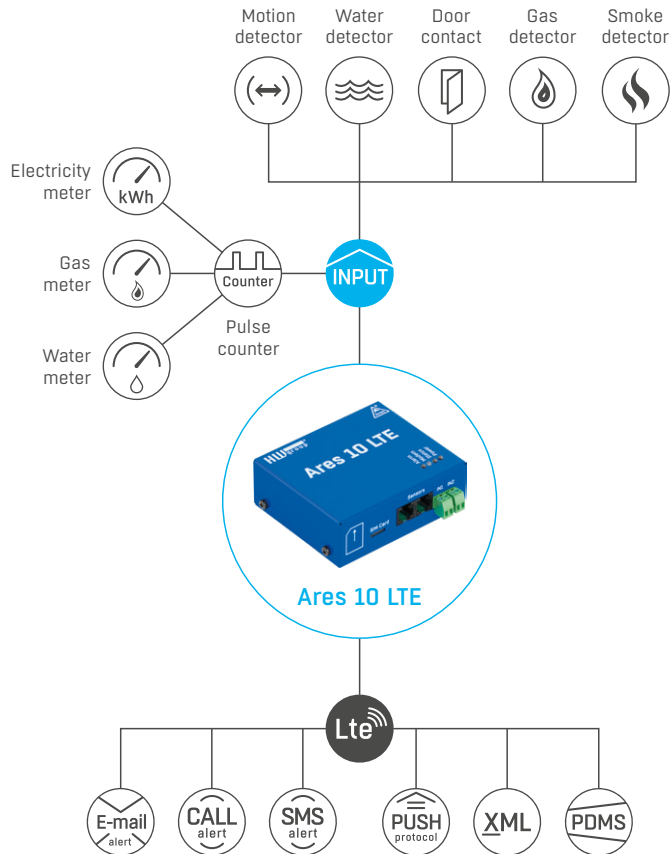
Data can be sent in **e-mail** attachments or downloaded **via USB**. Display the data using the SensDesk portal, its iOS or Android mobile version, or third-party apps (Nagios etc.).

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

Use the USB interface to configure the device from a PC; no need to install any additional software.

Typical application examples

- Electricity distribution networks (transformer stations, lines)
- Water source monitoring, including technical equipment status
- Agricultural premises (greenhouses, granaries, etc.)
- Road, highway, or railroad technology
- Temperature and thermal expansion of structures
- Diesel generators – environment and status monitoring



Differences between Ares 10 LTE vs. Ares 12 LTE

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

Versions and related products



Ares 10 LTE plain
3x 1-Wire UNI, 2x DI, device only



Ares 10 LTE set
Bulk + temperature sensor, power adapter, GSM antenna, USB cable and CD with software



Ares 12 LTE
14x 1-Wire UNI, 2x DI, battery



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



UPS 12V
Backup power supply, 12V, 1,3Ah

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

| Sensors | |
|-----------------|---|
| Type | HWg original accessories: 1-Wire & 1-Wire UNI |
| Connector | RJ11 (1-Wire Bus) |
| Sensors | Up to 3 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 500mA) |
| Connector | Jack (barrel, inner 2,1mm outer 5,5mm) + Terminal Block |

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

Configuration interface

The screenshot shows the AresConf configuration utility for HWg-Ares. The interface includes tabs for General, Inputs, Outputs, Sensors, SMS, and Email. The 'Advanced Mode' is selected. Key sections include:

- USB Connection:** Connected to Ares10.
- Digital Inputs:** A table showing three inputs: Input 1 (State: 1, Current Value: 0, Counters: 0), Input 2 (State: 2, Current Value: 0, Counters: 0), and External Power (State: 0, Current Value: 1, Counters: 5).
- Sensors:** A table showing one sensor: R363 (State: 1, Name: Sensor R363, Current Value: 26.375 °C).
- Status:** Ready, USB: Connected - data logging suspended while USB connected, Modem: Connected to Internet (179 sec), Version: 1.3.7.385.