



Ares 10 LTE

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



3 1-Wire
UNI
sensors

1-Wire sensors

2 DIGITAL
input

Digital inputs

5 SMS
alert

SMS notifications

5 E-mail
alert

E-mail notifications

Buffer
data logger

Data logging

USB

USB data port

SensDesk

SensDesk portal compatible

XML

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.

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.).

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

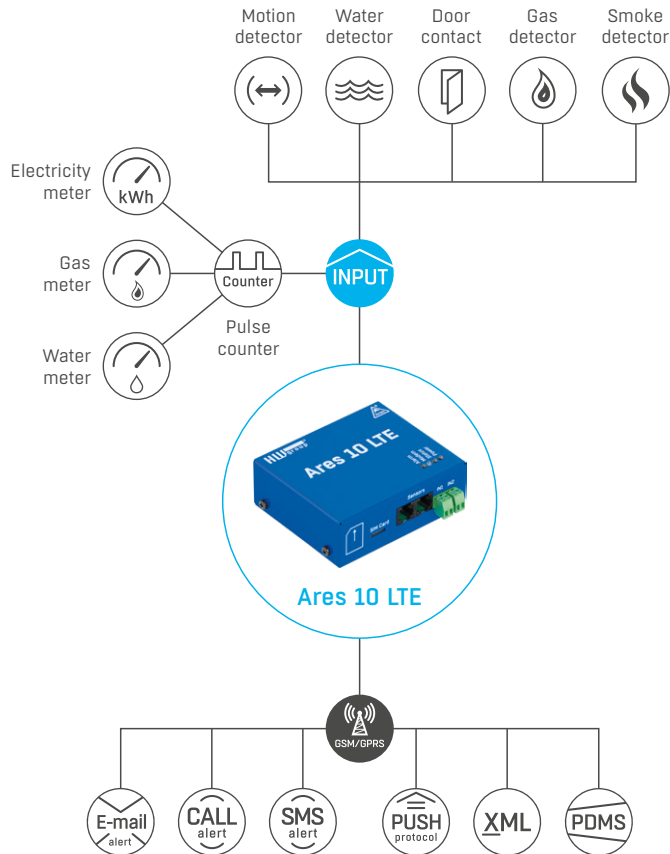
The "Tset" start set includes a temperature sensor with a cable that can be extended to up to 60 m.

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.

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 12 V
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 / 150 g
EMC	Class B, CE - EN 55022, EN 55024, EN 61000

Configuration interface

The screenshot shows the AresConf configuration utility for HWg-Ares. The interface is divided into several tabs: General, Inputs, Outputs, Sensors, SMS, and Email. The 'Advanced Mode' is selected. The 'USB Connection' is set to 'Connected'. The 'Device Name' is 'Ares10' and the 'Temperature Unit' is 'Celsius'. The 'Digital Inputs' table shows 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). The 'Sensors' table shows one sensor: R363 (State: 1, Name: Sensor R363, Current Value: 26.375 °C). The status bar at the bottom indicates: 'Status: Ready', 'USB: Connected - data logging suspended while USB connected', 'Modem: Connected to Internet (179 sec)', and 'Version: 1.3.7.385'.