



# 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.

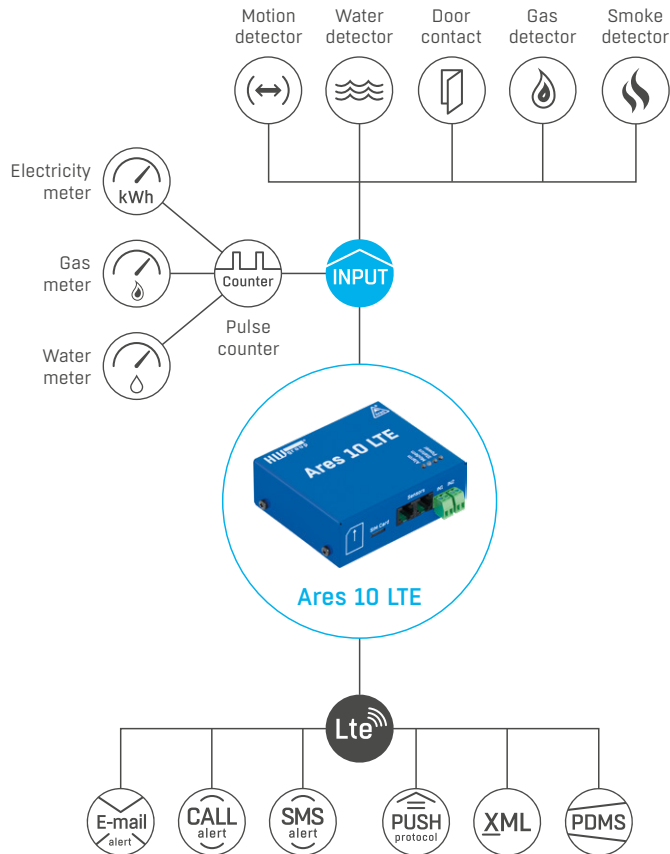
The "Tset" start set includes a temperature sensor with a cable that can be extended to up to 60 m.

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

Connection	
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, SNMP, 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. The 'USB Connection' is set to 'Connected'. 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), Version: 1.3.7.385.