HW group ®

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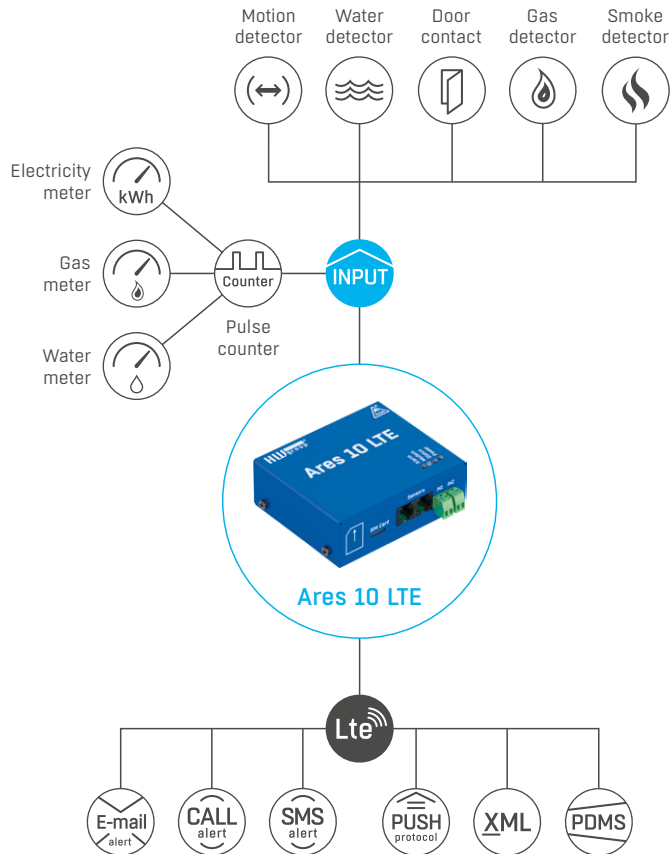
The "Tset" start set includes a temperature sensor with a cable that can be extended to up to 60 m.

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	3×	14×
External Relay Outputs compatible	✗	✓
Battery	✗	✓

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, SNTP, 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 60 m

Dry contact inputs

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

Power input

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

Versions and related products

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

Ares 10 LTE set
Temperature sensor, power adapter, GSM/LTE antenna and USB cable

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

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

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