HW group®

Ares 10

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

HWg-Ares10
GSM / GPRS monitoring

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

XML — XML interface

*Ares 10 is a cost-effective **GSM 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, **send alarms** or **display graphs**.*

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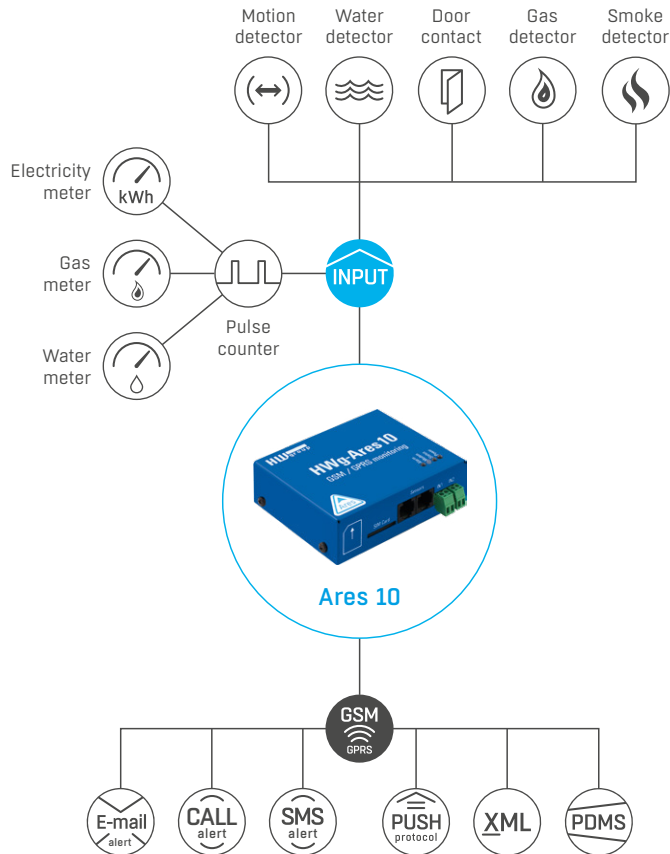
The "Tset" start set includes a temperature sensor with a cable that can be extended to up to 60 m.

The device can be **configured remotely** at the "AresConf" tab in the SensDesk portal. Remote firmware upload (FOTA) capability makes Ares 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

GSM / GPRS	
Interface	Quad-Band 850/900/1800/1900 MHz, GPRS class 10/8 Compliant to GSM phase 2/2 – Class 4 (2 W @ 850/900 MHz) – Class 1 (1 W @ 1800/1900 MHz)
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	FCC Part 15, Class B, CE - EN 55022, EN 55024, EN 61000

Differences between Ares 10 vs. Ares 12

	Ares 10	Ares 12
1-Wire UNI sensors	3×	14×
External Relay Outputs compatible	✘	✔
Battery	✘	✔

Configuration interface

Versions and related products

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

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

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

Converter 2xPt100 1W-UNI
Double converter for Pt-100 and Pt-1000 probes

Back-Up UPS 12 V
Backup power supply. 12 V, 1,3 Ah