HWgroup

Ares 10 LTE

LTE remote metering device with free portal for central Device management. SMS, Voice calls & Email Alarming included.

SMS alert 5   **E-mail** alert 5   **LTE**   **USB**

The Ares 10 LTE is cost-effective remote monitoring and alerting device for remote locations without LAN access. Connect up to 6 external sensors and 2 DI for external detectors with relay output.

Ares can be configured locally via USB or remotely from the **HWg-cloud.com**.

Ares can be also connected to any SensDesk portal.

SensDesk is remote Monitoring and Alerting system which can be installed on the customer's site. Ares continuously analyzes state and values of connected external sensors. When a value reaches the alarm threshold, Ares can be configured as standalone alerting device (sending Email, SMS or dials Voice Call).

You can connect:

Up to 6 sensors

- °C Temperature (Pt1000)
- %RH Relative Humidity
- CO_2 Carbon dioxide
- FLOOD Spot detector — Water Leak Detection
- Pa Atmospheric pressure
- 4-20 mA — Current (4-20 mA)
- V Voltage sensor

2× DI (Digital Inputs)

- 230V Power presence
- Smoke detection
- Door contact

Up to 6 external sensors
Connect up to 6 external sensor values (RJ11) bus (max. 60 metres). Sensors of current, voltage, temperature, light intensity, CO_2 and VoC are available.

Data graphs on the website
HWg-cloud.com or SensDesk service can receive data from the device and show value graphs. Data can be also sent in e-mail attachments or downloaded via USB.

5× E-mail / 5× SMS+Ring
User can be alerted from the device by email or by calling and texting up to 5 numbers. HWg-cloud or SensDesk can be also used for alerting.

2× DI for external detectors
To DI (Digital Input) you can connect 2 external detectors (0/1) with relay output. Detectors of smoke, air-flow, flood, power presence are available.

Remote configuration
The device can be configured remotely at the "AresConf" tab in the HWg-cloud or SensDesk portal.
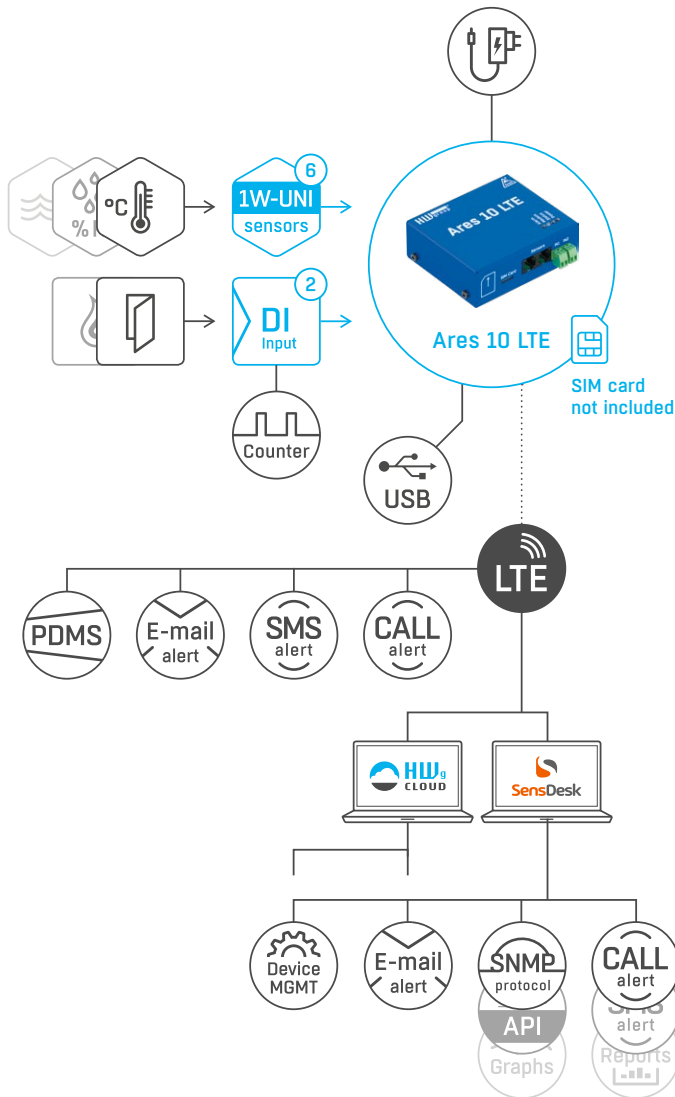
Standalone / IoT Monitoring
Device can be used as standalone alerting unit with remote web configuration over HWg-cloud.com service. Or it can be IoT monitoring device, connected to the portal, where all alarming / reporting is realized from the portal.

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

LTE Connections	
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
LTE limits	Voice call alerts from device require GSM 2G or 3G network coverage.

Sensors	
Type	HWg original accessories: RJ11 sensors
Connector	2× RJ11 port (1-Wire UNI)
Sensors	Up to 6 sensor values
Sensor distance	Up to 60 m

Dry contact inputs	
Port	I1, I2
Type	Digital Input (Dry contact) + Pulse counter (32 bit)
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 LTE vs. Ares 12 LTE

	Ares 10 LTE	Ares 12 LTE
Sensor values	6×	14×
External Relay Outputs compatible	✖	✔
Internal rechargeable battery	✖	✔

Versions and related products

Ares 10 LTE plain
Plain unit is just Ares 10 LTE device without accessories.

Ares 10 LTE Tset
Ares 10 LTE startup package with temperature sensor, power adapter, external antenna, USB cable.

HWg-Ares 12 plain
Plain unit is just GSM Ares 12 device without accessories.

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