



Ares 12 LTE

Industrial measuring and monitoring for 14 sensors, communication over GSM/LTE and back-up power



Battery



1-Wire sensors



Digital inputs



SMS notifications



E-mail notifications



Data logging



USB data port



SensDesk portal compatible

Ares 12 LTE is an industrial unit for remote monitoring and alarming over GSM/LTE for locations without LAN access. Includes battery backup. Connect up to 14 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 **14 sensors** or a relay output extender unit over the **1-Wire/1Wire UNI bus** (RJ11) and up to **2 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.).

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.

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

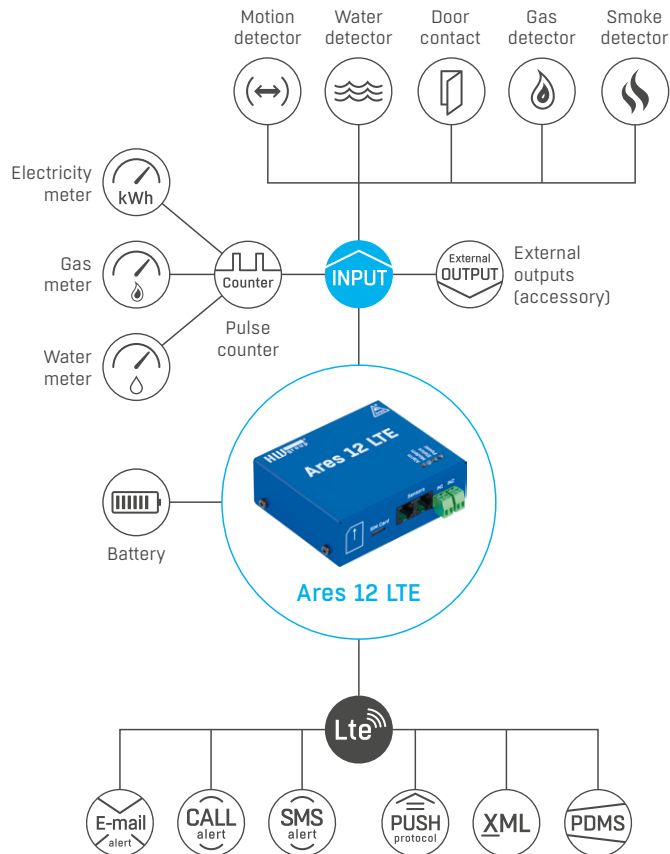
Ares 12 LTE includes an internal battery that provides back-up power for up to 24 hours.

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

Ares 12 LTE can be mounted to a wall or a DIN rail.

Typical application examples

- GPRS monitoring of machines and their environment
- ATMs – environment monitoring without tampering with the connection
- Art exhibits and depositories
- Storages of food or materials
- Cooling systems and coolers



Differences between Ares 12 LTE vs. Ares 10 LTE

	Ares 12 LTE	Ares 10 LTE
1-Wire UNI sensors	14x	3x
External Relay Outputs compatible	✓	✗
Battery	✓	✗

Versions and related products



Ares 12 LTE plain
14x 1-Wire UNI, 2x DI, device with battery only



Ares 12 LTE set
Bulk + temperature sensor, power adapter, GSM antenna, USB cable and CD with software



Ares 10 LTE
3x 1-Wire UNI, 2x DI



Expander 4xDI 1W-UNI
Expands one 1-Wire UNI to four digital inputs



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

GSM / GPRS	
Interface	FDD LTE band: B1/B3/B5/B7/B8/B20 WCDMA band: B1/B5/B8 GSM band: 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 14 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	CE - EN 55022, EN 55024, EN 61000

Configuration interface

The screenshot shows the AresConf configuration utility for HWg-Ares. It includes sections for:

- General:** Device Name (Ares12), Temperature Unit (Celsius), Current Time (17.6.2019, 10:28:08), Last Sync. Time (17.6.2019, 0:03:01), Modem Status (Ready to use), Signal Quality (-57 dBm (74%)), Res. operator (T-Mobile CZ T-Mobile CZ*), IMEI (867962041335780), FW Version (1.3.8L), Email Queue (0), SMS Queue (0), SIM Card ICCID (6007040011), Serial Number (6007040011).
- Digital Inputs:** Table with columns: State, ID, Name, Current Value, Counters. Rows: Input 1 (0, 0), Input 2 (0, 0), External Power (1, 7).
- Sensors:** Table with columns: State, ID, Name, Current Value. Rows: Battery Monitor (95%), Sensor 8363 (26.937 °C).

 The interface also shows 'Status: Ready', 'USB: Connected - data logging suspended while USB connected!', 'Modem: Ready to use', and 'Version: 1.3.8L.390'.