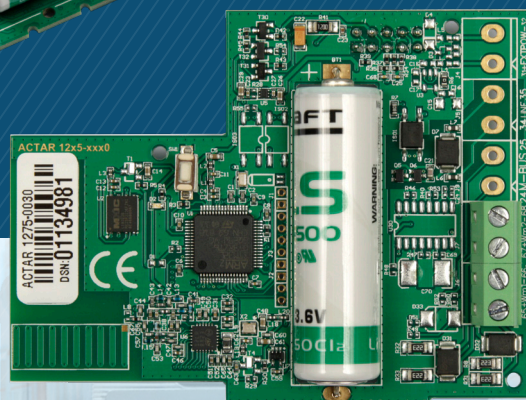
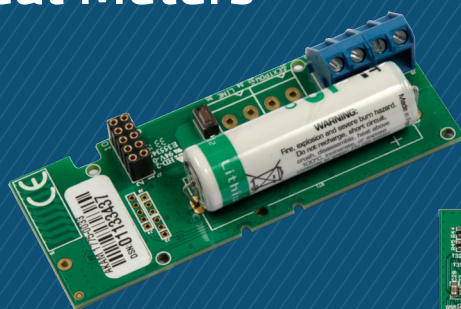


Remote Monitoring of Heat Meters

Smart Radio Modules



Compatible with various heat meters



Battery powered



Compact design



Direct installation



Unidirectional radio or cable transmission



No need for on-site configuration



Smart heat modules, designed by AIUT, ensure flawless data transmission from most heat meters available in the market. The modules read current data with the configurable frequency and send the received information via unidirectional local radio or cable communication. Their state of the art engineering design guarantees 5 years battery life time with daily data transmission. The modules can be easily retrofitted inside an already operating heat meters without interfering their regular work and internal systems. The installed modules do not affect tightness or any other environmental parameters of the heat meters.

Each module has its own unique identification number for clear assignment to the heat meter in the system and simultaneous installation of many modules within their radio range.



AKAM 17x5

| KAMSTRUP

Supported heat meters

- Multical 403
- Multical 603

Dimensions

- 34mm x 90mm



AKAM 16x5

| KAMSTRUP

Supported heat meters

- Multical 601
- Multical 601+
- Multical 602

Dimensions

- 47mm x 93mm



AKAM 15x5

| KAMSTRUP

Supported heat meters

- Multical 402

Dimensions

- 43mm x 68 mm



AKAM 13x5

| KAMSTRUP

Supported heat meters

- Multical 401

Dimensions

- 43mm x 68 mm



AKAM 10x5

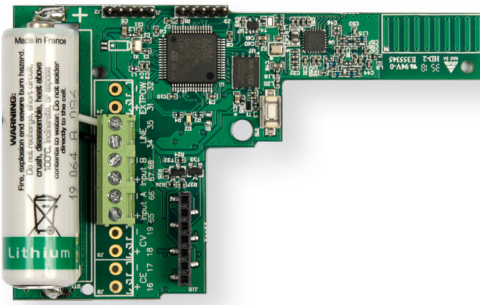
| KAMSTRUP

Supported heat meters

- Multical 66-CDE

Dimensions

- 47mm x 93mm



ALAND 10x5

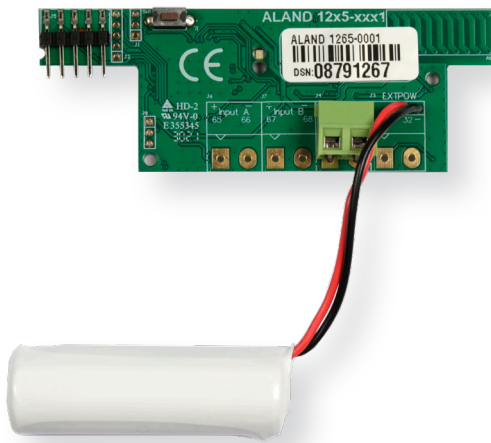
SIEMENS

Supported heat meters

- 2WR4
- 2WR5

Dimensions

- 53mm x 92mm



ALAND 12x5

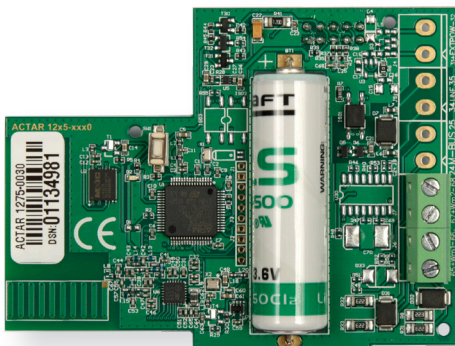
LANDIS&GYR

Supported heat meters

- Ultraheat 50 (UH50)

Dimensions

- 30mm x 84mm



ACTAR 12x5

ITRON

Supported heat meters

- CF ECHO II
- CF 51
- CF 55

Dimensions

- 62mm x 92mm

AKAM/ALAND/ACTAR 1vw5 y*z*

v - supported heat meter

w - type of radio interface

6 - radio 868/915 MHz FSK

7 - radio 868/915 MHz FSK + cable transmitter

y - power supply

0 - battery powered

z - hardware modifications

0 - no modifications

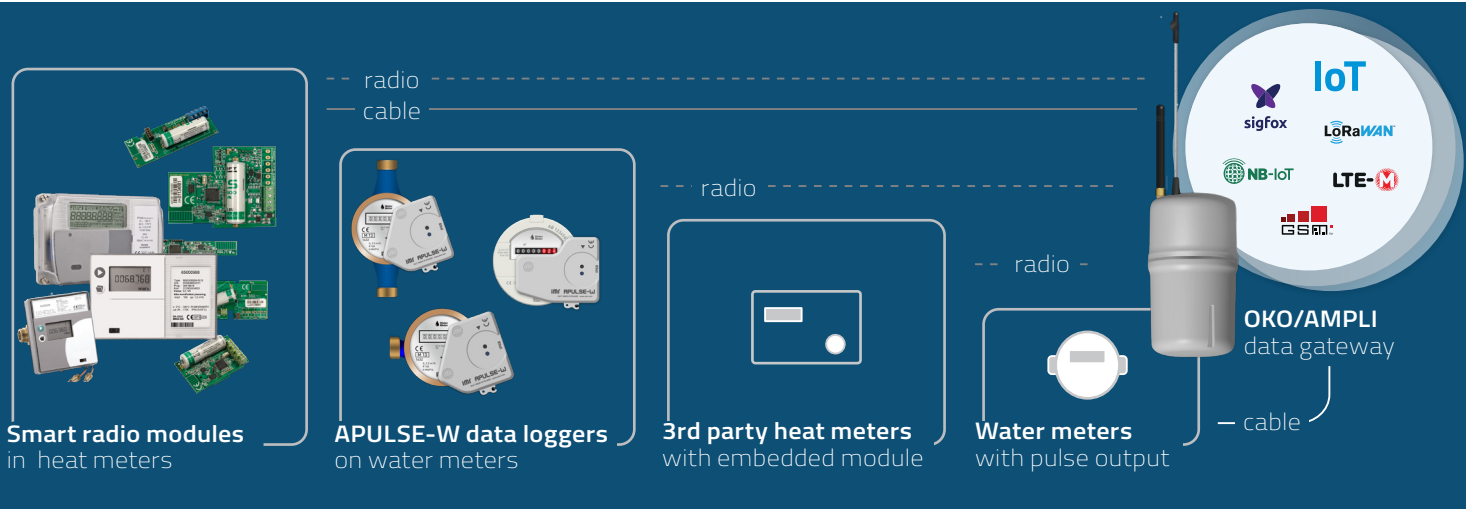
2 - one pulse counter (of heat module)

3 - two pulse counters (of heat meter)

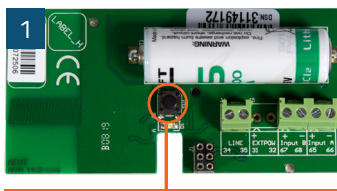
6 - two pulse counters (of heat module)

Heat metering system by AIUT comprises of on-site devices, such as battery powered or mains powered OKO/AMPLI data gateways and heat and water smart modules. The meter data is transferred remotely using wireless radio transmission (868 MHz) or transmitted by wire (IMR BUS, MBUS) to the gateway that sends it over IoT network to the server.

Optionally, up to two additional water meters can be cable connected to the smart heat module. Their readouts are transferred to the gateway within the radio frame from the module.



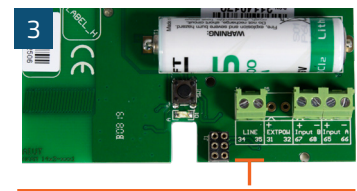
The installation procedure is very intuitive, can be performed in a couple of minutes and does not require on-site configuration. Simply press the diagnostic button for 5-7s (read the details on the product packaging) to wake up the module from seal-run mode [1] and connect it to the heat meter [2]. Optionally, cable connect the module to OKO/AMPLI data gateway [3].



Press the button for 5-7s.



Open the cover of the heat meter and connect the module



Cable connect the OKO/AMPLI data gateway

Data structures

- Device status
- Battery level
- Time of the last readout
- Current energy and energy from the last month
- Current volume and volume from the last month
- Supply and return temperatures
- Current power and maximum power from the last month
- Current flow and maximum flow from the last month
- Working time
- Working time with error*
- Error code
- Read volume of the 1st and 2nd additional water meter

Cable interface

- Connection with external radio module
- Range: ~100m

Environmental specification

- Operating temperature: -25°C to +60°C
- Usage environment: indoor

User interface

- Status LED & push button

Radio interface

- Frequency: 868 MHz, <10mW
- Range: up to 150m

Power supply

- Type of battery: replaceable, 3,6V DC 2,75 Ah SAFT Lithium LS 14500C
- Battery lifetime: 5 years

*Except versions AKAM 10x5, AKAM 13x5, AKAM 15x5