



ARISTA

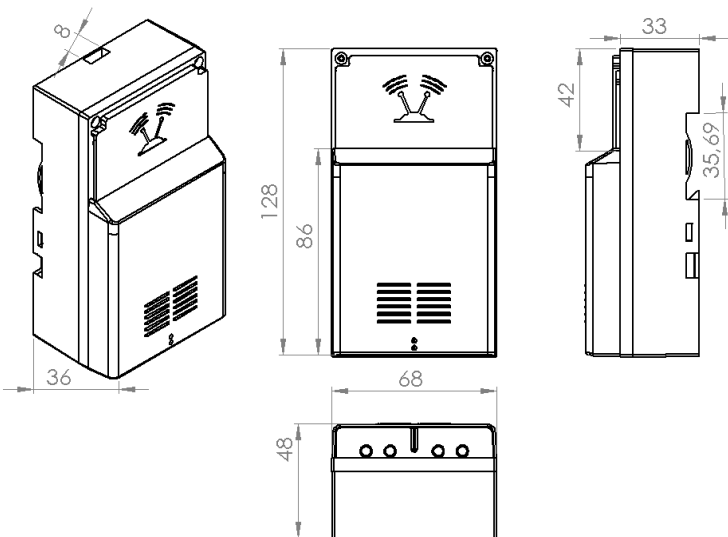
Communication module

ARISTA management unit is designed for use in ARISTA Management System, based on up-to-date ARISTA Technology.



Management unit for smart metering systems in Water, Gas, Heat, Street lights

OVERALL DIMENSIONS (mm)



ARISTA communication module is a controller designed to work with any water/gas/heat meters with impulse output.

AMU integrates meter reading and control functions: calculation, data storage, consumption monitoring, status monitoring and communication. AMU calculates consumed energy /resource from any meter with impulse output, opens/closes valve (internal, external) and registers network events.

	Full 2-way communication
	Built-in wireless/MBus interfaces
	NFC
	Load profile
	Consumption control
	Unauthorized access control
	Alarm signalization
	Data storage in non-volatile memory
	Built-in clock
	Reserve power supply
	Protection level

- ▶ Calculation of energy/resource consumed by a meter with impulse output
- ▶ Indication of operational status and alarming
- ▶ Tamper detection
- ▶ Data exchange with the Management Center
- ▶ Communication to the router via 868 MHz wireless interface or MBus
- ▶ NFC for local reading/programming
- ▶ Consumption management in accordance with specified profile or on command from the Management System. /in prepayment and credit mode and available valve/.
- ▶ Valve management (external or internal)
- ▶ EMC immunity



FUNCTIONAL AND TECHNICAL DATA

Consumption reading

- Actual readings, Interval readings (hourly, daily)

Data storage

- The controller calculates and stores data for water consumption in non-volatile memory (up to 240 readings).

Events

- Dynamics of current status and alarm events
- Timestamps
- Anti-shear alarm (the sampling cable is cut)
- Coveropen alarm
- Valve not working alarm (for external valves)

Communication

- Communication via integrated wireless modem 868MHz - the main communication channel of the controller
- Communication via integrated Mbus in wired network

Build-in LED

- Built-in LED for indication of controller working mode

Real time clock

- Periodic remote clock synchronization
- Backup power supply
- Built-in clock and calendar provide timestamp for data and events

Communication port

- NFC channel for local data exchange and programming

Load control and remote limitations

- Consumption control via external valve:
 - close in case consumption reaches the predefined limit in prepayment mode
 - open in case new limit entered in prepayment mode
- Close/open by the utility company in credit mode

Configuring

- Locally (via NFC interface)
- Remotely in compliance with the predefined configuration (via wireless module or Mbus)

Firmware

- Locally upgrade via NFS interface
- Remotely upgrade from Management center via wireless/MBus interface

Housing

- Light-tone non-flammable impact-resistant polystyrene
- IP 54 protection against water and dust

Installation

- On plain surface using fixing loops or
- On DIN-rail (35×7.5×1 mm)

Terminals of current circuits

- Spring clamps, fit for wires with maximum cross-section 1,5 mm²

Power supply

- Built-in batteries with up to 10 years life

TECHNICAL SPECIFICATIONS

Reference battery voltage	3.7 V
Clock accuracy (at 25°C)	≤0.5 s /24 h
Operation temperature range	-30°C ... +50°
Transporting and storage temperature	-40°C ... +70°
Data transmission rate via MBUS, up to	9600 bps
Data transmission rate via wireless communication at 868MHz, up to	250 000 bps
Relative humidity up to	95%
Product life	10 years
IP rating	IP51
Dimensions	115x80x35mm
Mass, not more	0,3 kg

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