MV311





MV311: KEY FEATURES

Multicolor led as status indicator

6 lines display

Ethernet connection (IP65)

EN1434 and MID

PoE

4GB – data, event and alarm logger

Configurable in stand-alone mode via usb

Up to 4 pulse inputs (1khz)

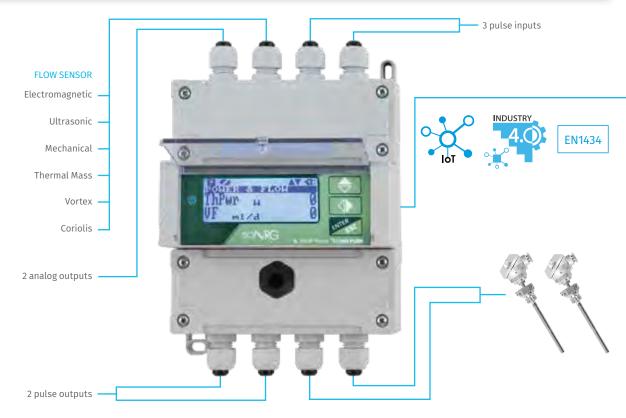
Up to 3 simultaneous protocols

Dual analogic and digital outputs

"Quick Setup" function

Glycol correction up to 60% (MI004 approved up 40%)

Webserver and FTPServer connections can be protected with password and cryptography TLS 1.2 (optional)





- Data Center - District heating

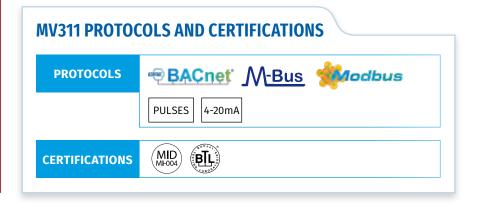
- Building Automation

Application

Designed for industrial applications, the MV311 energy calculator ensures flexibility thanks to the " $\mathbf{Quick\ Setup}$ " function with different options unique in the market.

Fast in the calculation, accurate in the measure, while being easy to use.

A calculator designed for applications such as **cogeneration**, **energy efficiency** or acting as a simple **centralizer for various energy carriers**.





MV311 ENERGY CALCULATOR

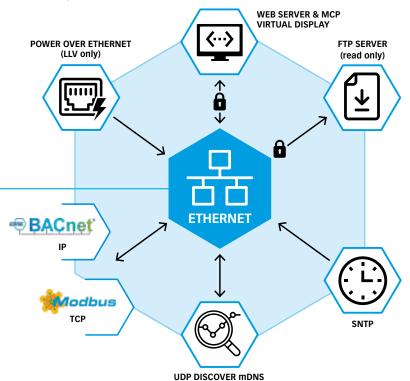
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PoE and Ethernet services

The **PoE** option (Power over Ethernet) allows power and **communications protocol** over the **same RJ45 cable**. Through the Ethernet connection the energy calculator can make use of the services **UDP DISCOVERY/mDNS**, **SNTP**, **FTP SERVER**, **WEB SERVER**, **DHCP** and **DNS**.

Protocols output

The **Ethernet connection** enables the energy calculator, to work with up to **three protocol simultaneously**. The selectable protocols are Mbus, Modbus (RTU and/or TCP), and BACnet (MS/TP or IP).



QUICK SETUP FUNCTION

A unique function that guides the user through an initial configuration menu.

At the end of the menu the energy calculator is sealed compliant with the indications of the MID Directive.

Among the most important editable parameters are:

- Pulse input value
- Measurement side for vector fluid
- Type of temperature sensors
- Energy measure unit
- Decimal point position for Energy

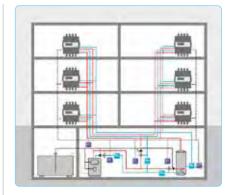
Memory

The MV311 calculator can include a **4GB memory** that allows **1 second interval recording** of all **measured values**, **alarms**, and **events**. Stored data can be transferred and processed through the freely available MCP management software. With a storage **frequency of 15 minutes** the memory capacity is **over 50 years**.

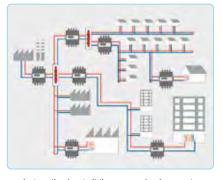
Inputs - Outputs

The energy calculator has **4 pulse inputs** (one for thermal vector, two for volumetric totalizers and one auxiliary input for totalizer with different measure units) with the possibility to have **two pulses and two analog outputs** configurable by the user. The input for thermal fluid can be, alternatively, an **analog input** 4-20mA.

TECHINCAL FEATURES	
Power supply	24-36Vac; 45-66Vdc, 110-240Vac, PoE
Protection rate	IP65
Display	Graphic display 128x48 points, 4 or 6 lines
Temperature probes	PT100, PT500, and PT1000
Temperature probes connections	2 or 4 wires
Digital inputs	4 (one for thermal vector)
Analog input	1 (only for thermal vector)
Digital outputs	2
Analog outputs	2
Protocols	Up to 3 simultaneously
Memory	4Gb as option
Accuracy system	0.20%*(0.18+Δθmin/Δθ)
Class	2



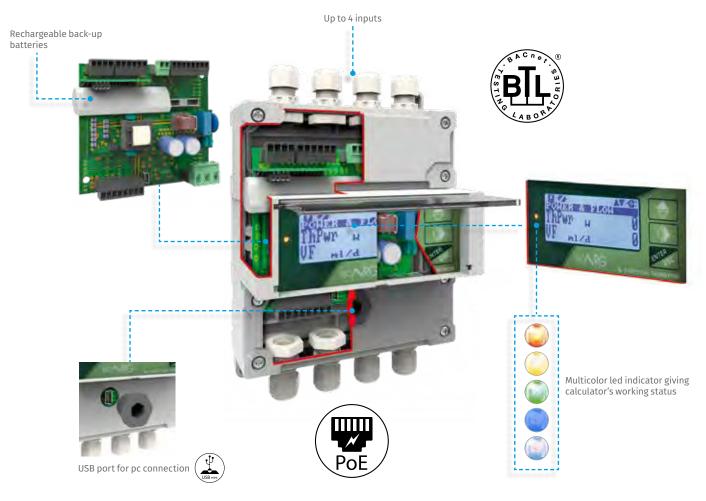
Typical application: building automation (commercial, offices, shopping malls, airports, large residential buildings...).



Typical application: building automation for complete districts or facilites.



MV311



TEMPERATURE PROBES

DS

Typically used for DN≤32, ball-valve needed.

TECHNICAL FEATURES		
Class	В	
Approval	MID MI004	
Particularity	Pairing selection	
Max cable length	10 m	



Used for DN>32, pocket needed.

TECHNICAL FEATURES		
Class	В	
Approval	MID MI004	
Particularity	Pairing selection	
Max cable length	10 m	



PLH

Head version probes, the connection can be 2 or 4 wires technology.

TECHNICAL FEATURES	
Class	Α
Approval	MID MI004
Particularity	Pairing selection
Pocket	Included







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