MV311

THERMAL ENERGY CALCULATOR AND P.I. CONTROLLER





Glycol coefficient approved MI004 - Up to 3 protocols simoultaenuosly - Proportional Integral controller



KEY FEATURES

EN1434 and MID - MI004 - 2014/32/EU also for water and glycol mixtures

Compatible with any flow meter technology

Suitable for both new and retrofit systems

Proportional integral control

Up to 3 simultaneous protocols

Configurable in stand-alone mode via usb

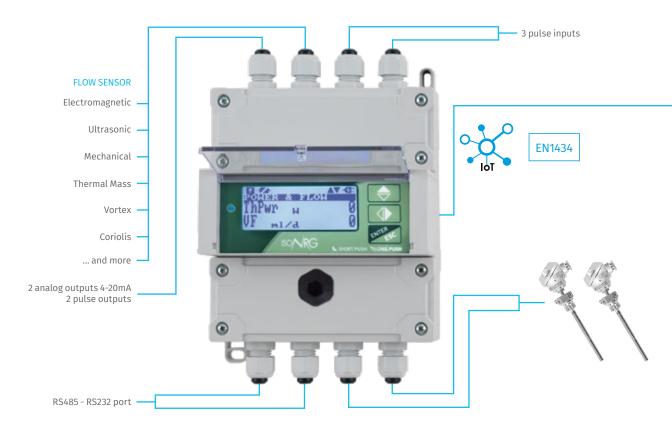
4GB - data, event and alarm logger

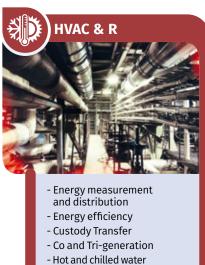
Long range multicolor led status indicator

Ethernet connection (IP65)

PoE (power supply over ethernet)

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



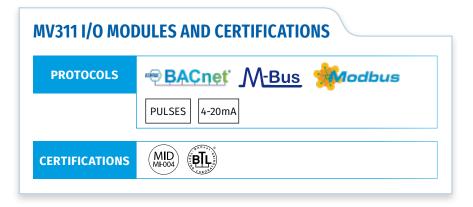


- Data Center - District heating

- Building Automation

Application

Designed for industrial applications, the MV311 energy calculator offers unparalleled flexibility thanks to the "Quick Setup" function with multiple unique options. It delivers fast calculations, precise measurements, and exceptional ease of use. Engineered for high-accuracy applications in both heating and cooling systems.





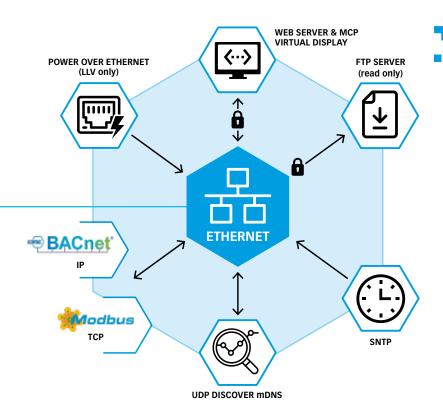
MV311 ENERGY CALCULATOR

PoE and Ethernet services

The **PoE** (Power over Ethernet) option enables both power supply and **communication protocol** transmission over the **same RJ45 cable**.

Glycol

Advanced calculation for water and glycol mixture, both ethylene and polypropylene up to 40% concentration, according to EN1434 and MID certified 2014/32/EU - MI004.

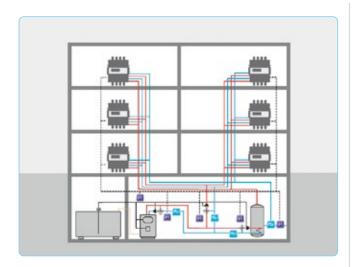


QUICK SETUP FUNCTION

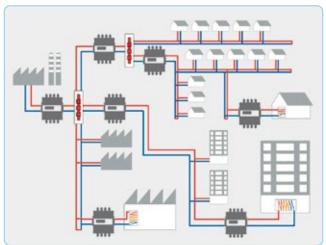
A unique function that guides the user through an initial configuration menu by changing the editable parameters.
At the end of the menu the energy calculator is sealed compliant with the indications of the MID Directive.

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.



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



Typical application: building automation for complete districts or facilites.

TECHINCAL FEATURES	
Power supply	24-36Vac; 45-66Vdc, 110-240Vac, PoE Backup battery
Protection rate	IP65
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
Memory	4Gb as option
Accuracy system	0.20%*(0.18+Δθmin/Δθ)



MV311 SMART CONTROL



The new ISONRG MV311 SMART CONTROL can have different and freely programmable regulation variables which are used to keep control according to a precise command hierarchy. Variables and set points can be programmed by the user or the BMS to meet specific application requirements.



Flowrate



Thermal Power



Temperature Difference



Return temperature - T2



Supply temperature - T1

TEMPERATURE PROBES

DSPS

TECHNICAL FEATURES	
Class	В
Approval	MID MI004



PL

TECHNICAL FEATURES	
Class	Α
Approval	MID MI004















