
THERMAL ENERGY

THE COMPANY

Maddalena is one of the most important international companies in the water metering and thermal energy metering instruments field.

Founded in 1919, the company has never stopped developing its organizational structure and its range of domestic and large user meters to meet the demands of the main water utilities worldwide. It is now manufacturing over three million meters every year.

The company has been awarded the title of Historical Brand of National Interest, testifying to its outstanding value and the leading role it plays in the Italian industrial culture.

INNOVATION

- **RESEARCH AND DEVELOPMENT**

A team constantly engaged in product and process development, focussing on legal metrology and remote data communication.

- **CUSTOMER COMMITMENT**

The ability to effectively meet customer requirements, relying also on integrated advanced logistics solutions.

- **SUSTAINABILITY**

Ambassador to the culture of water measurement, Maddalena contributes to improving water efficiency throughout the world.

RELIABILITY

All measuring instruments are certified according to the MID Directive and hold all main international health certifications.

The company has an in-house calibration laboratory accredited by ACCREDIA.

Maddalena is a member of several national and international smart metering industry associations.

The most prestigious international certifications testify to the quality of both products and processes.



THERMAL ENERGY

Maddalena offers you the widest choice for all your requirements: from domestic divisional installations to the requirements of the utility sector. All Maddalena thermal energy meters guarantee the highest precision and durability.

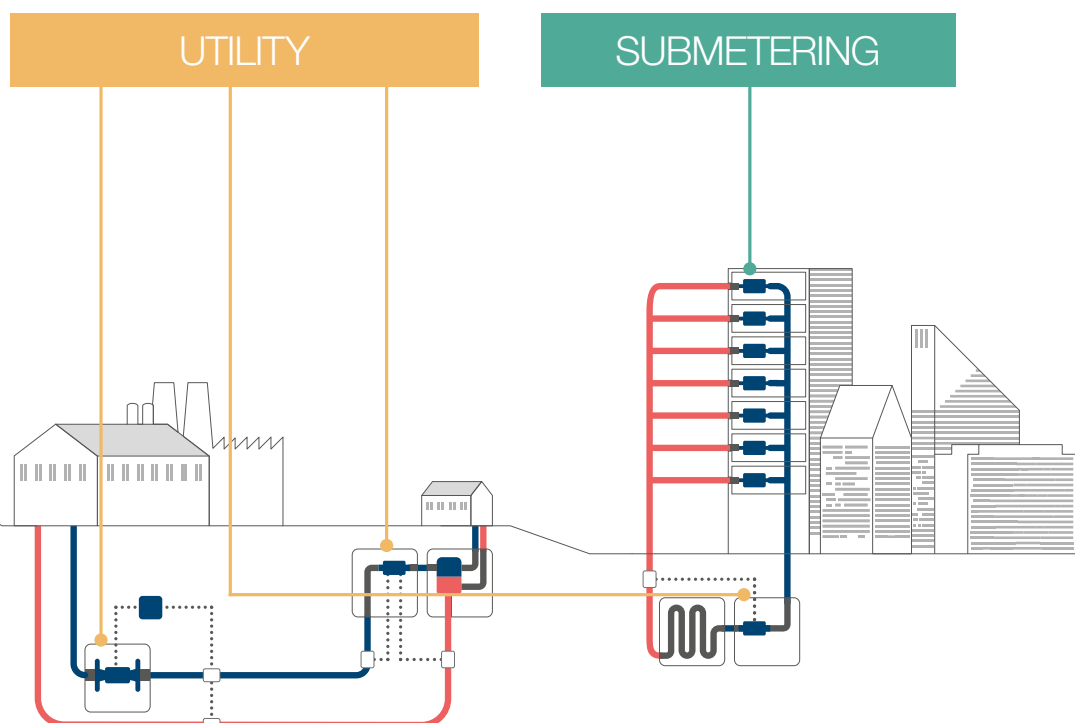


Mechanical meters measure thermal energy provided to users using water as the thermal energy conveyance medium. They can be used in both heating and cooling systems and are mainly targeted to domestic divisional installations.



Ultrasonic meters are ideal for thermal energy accounting in systems more complex than domestic installations. With their extensive range of sizes and their ability to work at very high operating temperatures, they are the ideal instruments for thermal power plants and district heating networks.

AREAS OF APPLICATION



RANGE OF PRODUCTS BY MADDALENA

A full range of products offering a wide choice of sizes, lengths, and different measurement technologies to meet all areas of application for more effective energy savings.

All these instruments are certified compliant to the MID Directive and, with their battery power supply, provide a long service field life (estimated at up to 10 years depending on configuration).



MID



LONG SERVICE LIFE



EXTERNAL POWER SUPPLY UPON REQUEST


















ENVIRONMENTAL PROTECTION



CONFIGURABLE INSTALLATION TYPE



CONFIGURABLE UNIT OF MEASUREMENT

	LINE PRODUCT	WATER TEMP	DIAMETER	TECHNOLOGY
SUBMETERING	MICROCLIMA EVO 		 15-20	 SINGLE-JET
	MICROCLIMA U 		 15-40	 ULTRASONIC
UTILITY	MICROCLIMA S3C KUS 		 25-100	 ULTRASONIC
	MICROCLIMA S3C 		 50-100	COMPATIBLE WITH MI 004 FLOW METERS AND PT 500 PROBES



VELOCITY



STATIC

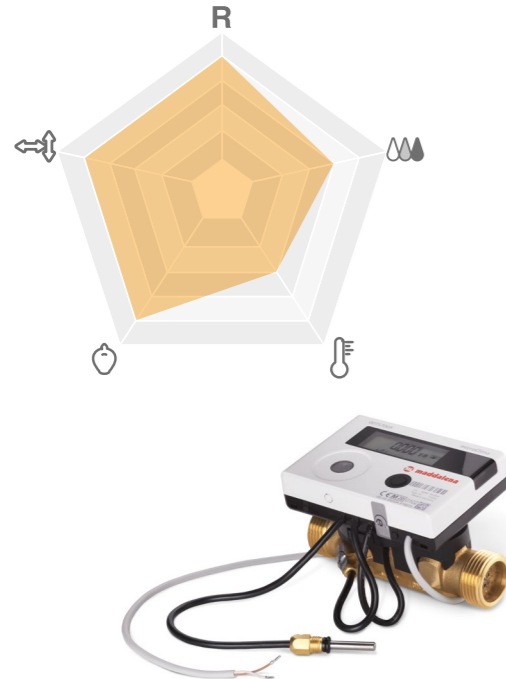


T 90° C T 130° C COOLING - optional

UTILITY

MICROCLIMA U

Type: Ultrasonic compact
MID: Class 2
DN: 15 (Qp 0.6 and 1.5) to 40 (Qp 10)
Probes: PT1000



MICROCLIMA S3C - KUS

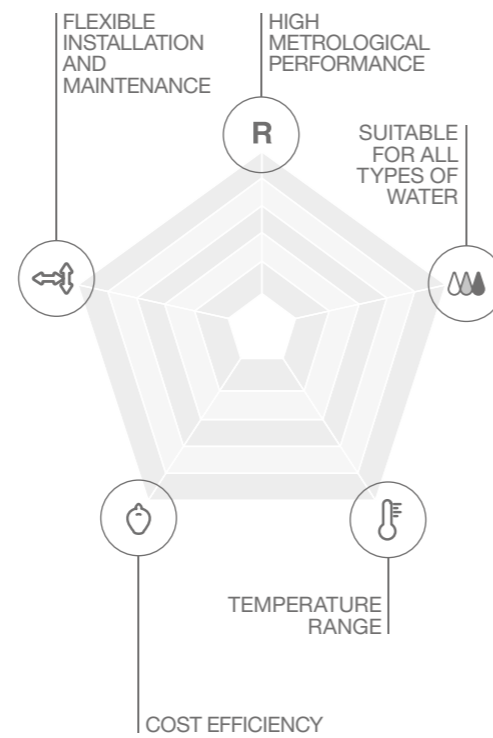
Type: Ultrasonic split
MID: Class 2
DN: 25 (Qp 6) to 100 (Qp 60)
Probes: PT500



MICROCLIMA S3C

The separate S3C electronic unit can be combined with any MI-004 certified primary element for thermal energy metering.

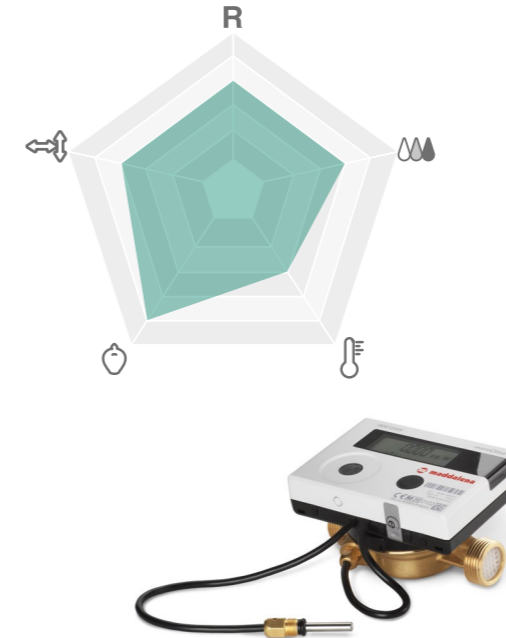
Type: Split
MID: Based on primary element
DN: Based on primary element
Probes: PT500 (upon request)



SUBMETERING

MICROCLIMA EVO

Type: Single-jet compact
MID: class 2 and 3
DN: 15 (Qp 0.6 and 1.5) to 20 (Qp 2.5)
Probes: PT1000



GRADUS

Electronic heat cost allocator :
 Indirect thermal energy allocator for older buildings with column distribution lines.
Compliance: EN 834 and UNI 10200
Technology: 2 sensors (ready for remote sensor)
Interfaces: Optical (programming) and wM-Bus 868 (reading)



DISCOVER OUR THERMAL ENERGY RANGE
 scan the QR code

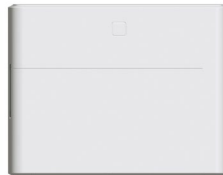
SMART EVOLUTION

A pioneer in data transmission technologies, Maddalena remains abreast of the challenges of the market, and is committed to the continuous development of flexible mobile and fixed data transmission and centralization solutions.

In combination with MicroClima thermal energy meters with radio modules, Maddalena recommends the use of MecTo or ElecTo radio water meters.



DISCOVER OUR SYSTEMS RANGE scan the QR code



SJ Evo



ElecTo SJ



		M-Bus	Modbus	M-Bus wireless OMS	LoRaWAN
MICROCLIMA EVO		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MICROCLIMA U		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MICROCLIMA S3C		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Thermal energy meters can also be supplied on request with pulse inputs to manage up to 3 secondary meters (e.g. pulse-emitting water meters).



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