
COMMUNICATION MODULES

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.



COMMUNICATION MODULES

Maddalena offers an extensive range of solutions to allow MecTo (Mechanical Totalizer) meters to connect and exchange data with any type of short-range and long-range networks.

These solutions speed up meter reading times, improve network monitoring, and identify possible leaks or faults.

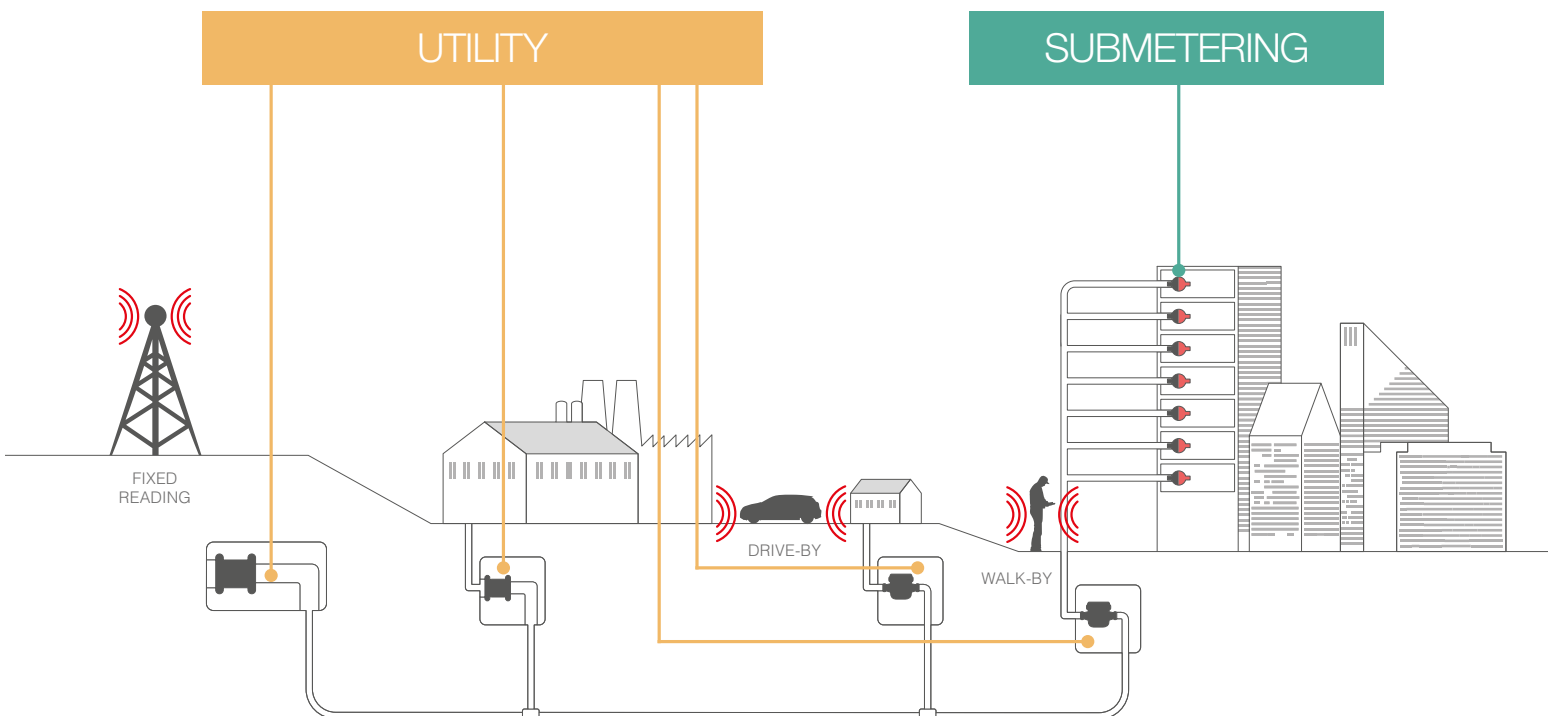


Maddalena confirms the compatibility of these products with the European wM-Bus Standard (EN 13757) and the OMS specifications, providing full interoperability with a range of reading systems available on the market, including third-party systems, and thus facilitating the work of system integrators.



Maddalena also offers long-range transmission solutions, compatible with LPWAN (Low Power Wide Area Network) technologies, created to serve the IoT world through free or licensed cellular bands.

AREAS OF APPLICATION



RANGE OF PRODUCTS BY MADDALENA

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

All the communication modules offer:



BIDIRECTIONAL STATIC METER INTERFACE



ENVIRONMENTAL PROTECTION



LONG SERVICE LIFE



READINGS, INDEXES AND ALARMS



ADVANCED DATA ENCRYPTION

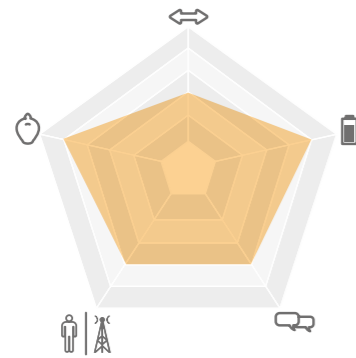
	PRODUCT LINE	RANGE		REMOTE READING		TECHNOLOGY
		SHORT	LONG	MOBILE	FIXED	
SUBMETERING	M-Bus ^{EVO} 	<input checked="" type="checkbox"/> cable			<input checked="" type="checkbox"/>	
	Radio ^{EVO} 	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Radio LoRaWAN TM 		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
UTILITY	Arrow ^{EVO} 	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Arrow ^{WAN} 169 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Arrow ^{WAN} 2 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Arrow ^{WAN} NB-IoT 		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

* activated upon request

UTILITY

Arrow^{EVO}

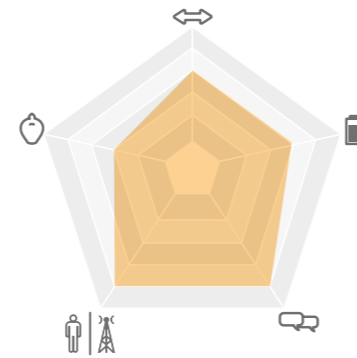
Transmission: Unidirectional
Interval (default): Every 16 seconds
Configuration: Radio, local
Compatible with: WMAP, MVM range, pulse emitter meters



Also available in a standalone version with pulse input

Arrow^{WAN} 169

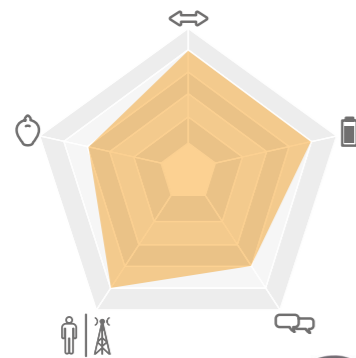
Transmission: Bidirectional
Interval (default): 4 times a day and upon demand
Configuration: NFC or OTA
Compatible with: MVM range, pulse emitter meters



Also available in a standalone version with pulse input

Arrow^{WAN2}

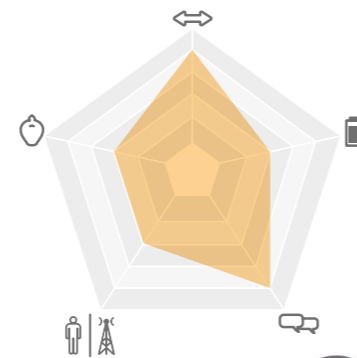
Transmission: Uni and bidirectional
Interval (default): Dual mode with wM-Bus every 30 sec. and LoRaWAN twice a day
Configuration: NFC or OTA
Compatible with: MVM range, pulse emitter meters



Also available in a standalone version with pulse input

Arrow^{WAN} NB-IoT

Transmission: Bidirectional
Interval (default): 2 times a month
Configuration: NFC or OTA
Compatible with: MVM range, pulse emitter meters

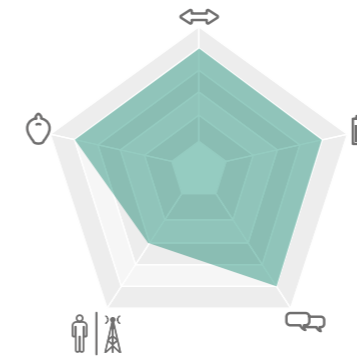


Also available in a standalone version with pulse input

SUBMETERING

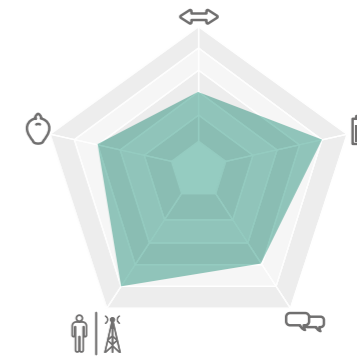
M-Bus^{EVO}

Transmission: Bidirectional via cable
Interval (default): Demand
Configuration: Via M-Bus
Compatible with: SJ EVO, UPZ EVO



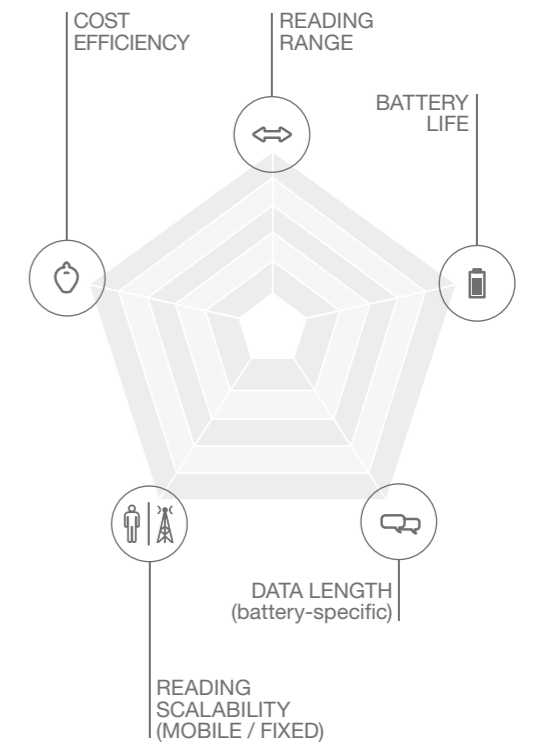
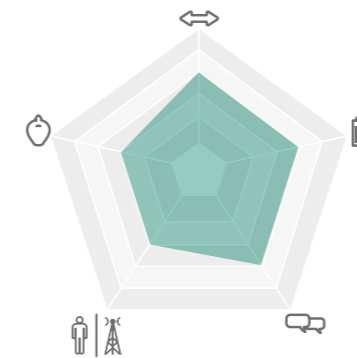
Radio^{EVO}

Transmission: Unidirectional
Interval (default): Every 2 minutes
Configuration: Radio, local
Compatible with: SJ EVO, UPZ EVO



Radio LoRaWANTM

Transmission: Bidirectional
Interval (default): 2 times a day
Configuration: via IrDA and ZVEI
Compatible with: SJ EVO, UPZ EVO



DISCOVER OUR COMMUNICATION MODULES RANGE scan the QR CODE

SMART EVOLUTION

Our range of communication modules allows MecTo products with a mechanical register to meet the requirements of smart metering, offering maximum flexibility in a wide variety of applications.

The modules can be purchased individually or already paired and configured on meters.



DISCOVER OUR ELECTO METERS RANGE
scan the QR code

SUBMETERING	INTEGRATION	SJ EVO 
	M-Bus ^{EVO}	
	Radio ^{EVO}	
	Radio LoRaWAN TM	

UTILITY	INTEGRATION	SJ ONE 	DS 	MVM 	WMAP 
	Arrow ^{EVO}				
	Arrow ^{WAN} 169				
	Arrow ^{WAN} 2				
	Arrow ^{WAN} NB-IoT				



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