

**ADD-ON NB-IoT RADIO MODULE**


NB-IoT radio module, equipped with built-in inductive pulse sensor. Compatible with Maddalena meter models MVM and MVM PLUS C size DN 15 to DN 40.

Data communication protocol compliant with UNI/TS 11291-3.

NB-IoT provides long-range transmission in both urban and suburban environments (based on the actual characteristics of the territory).

Battery powered, with a battery life of up to 10 years (depending on the type of configuration and the number of readings/transmissions).

Direct installation on the meter, including anti-tampering seals. The totalizer and the information on the dial are accessible after opening a protection lid.

Activation and configuration are carried out locally, via NFC-compatible Android app, or via OTA transmission.

**KEY FEATURES**

- NB-IoT communication technology (Cat. NB1)
- Bidirectional data protocol compliant with standard UNI/TS 11291-3
- Built-in low-power bidirectional inductive sensor (meter interface)
- NFC interface for installation and configuration procedures (Android app)
- Optimised internal antenna
- Up to 10 years of autonomy
- IP68 protection
- Total volume, leak detector and dia information remain visible even with the radio module installed

**SPECIFICATIONS**

Built-in radio interface	NB-IoT (Cat. NB1)
Radio broadcast mode	Bi-directional communication
Reception sensitivity	-129dBm
Transmission power	23 dBm max.
Factory default settings.	2 transmissions per month (configurable from remote)
Data	Read indexes, maximum and minimum flow rate (depending on configuration)
Alarms	Fraud, reverse flow, leaks, overflow, no usage, battery under 10%
Operating temperature range	-10 °C to +55 °C
Protection rating	IP68
Meter interface	Bidirectional inductive sensor
User interfaces	NFC interface (installation and configuration procedure) compliant to standard ISO 15693 (frequency: 13,56 MHz)
Battery duration	Up to 10 years (depending on configuration)

## REGULATORY COMPLIANCE

- RED Directive 2014/53/EU
- EMC Directive 2014/30/EU
- RoSH2 Directive 2011/65/EU
- ETSI EN 301 489-1
- ETSI EN 301 489-52
- ETSI EN 301 908-1
- ETSI EN 301 908-13
- EN 62311

## Dimensions (mm)



Dimensions of module on MVM meter

Dimensions of module on MVM PLUS C meter