

Choices of communications:

- Walk-by, drive-by mode

Safeguarding your data:

- Data is encrypted in protocol

TF-M

Radio Module

Key Features

- Anti-directional inductive sensor
- Direct mount, no cables needed, automatic activation of data transmission via radio
- 868 MHz, with open data protocol wM-Bus
- Mobile (walk-by) or fixed (AMR) reading
- Battery lifetime 12 years
- Compatible to the Modular water meters



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General Description >>> - - - - -

TF-M is a radio module with built-in unidirectional inductive sensor.

Based on the inductive technology, which provides a crucial, built-in defense against the invisible but pervasive challenge of electromagnetic interference. This minimizes the risk of communication failure at its source, ensuring that the valuable data from meter is delivered consistently and reliably.

TF-M is used where mechanical water meters prepared for wireless transmission are available.

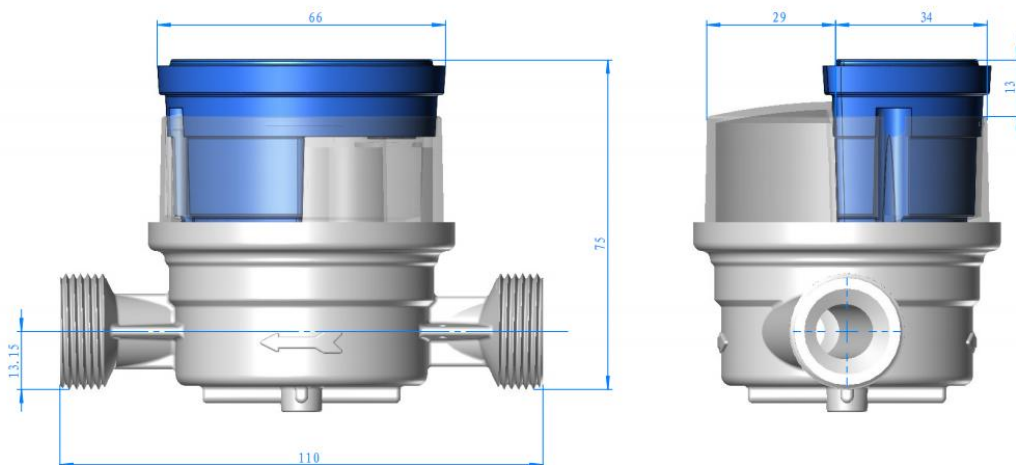
TF-M complies with the wM-Bus data communication protocol regulated at European level by the standard EN 13757, thus enable mobile reading (walk-by, drive-by) and fixed (AMR) reading.

Approval and standards >>> -

- RED 2014/53/EU
- EMC 2014/30/EU
- EN 13757 - 3/4
- OMS v4.5.1



Dimensions >>> - - - - -



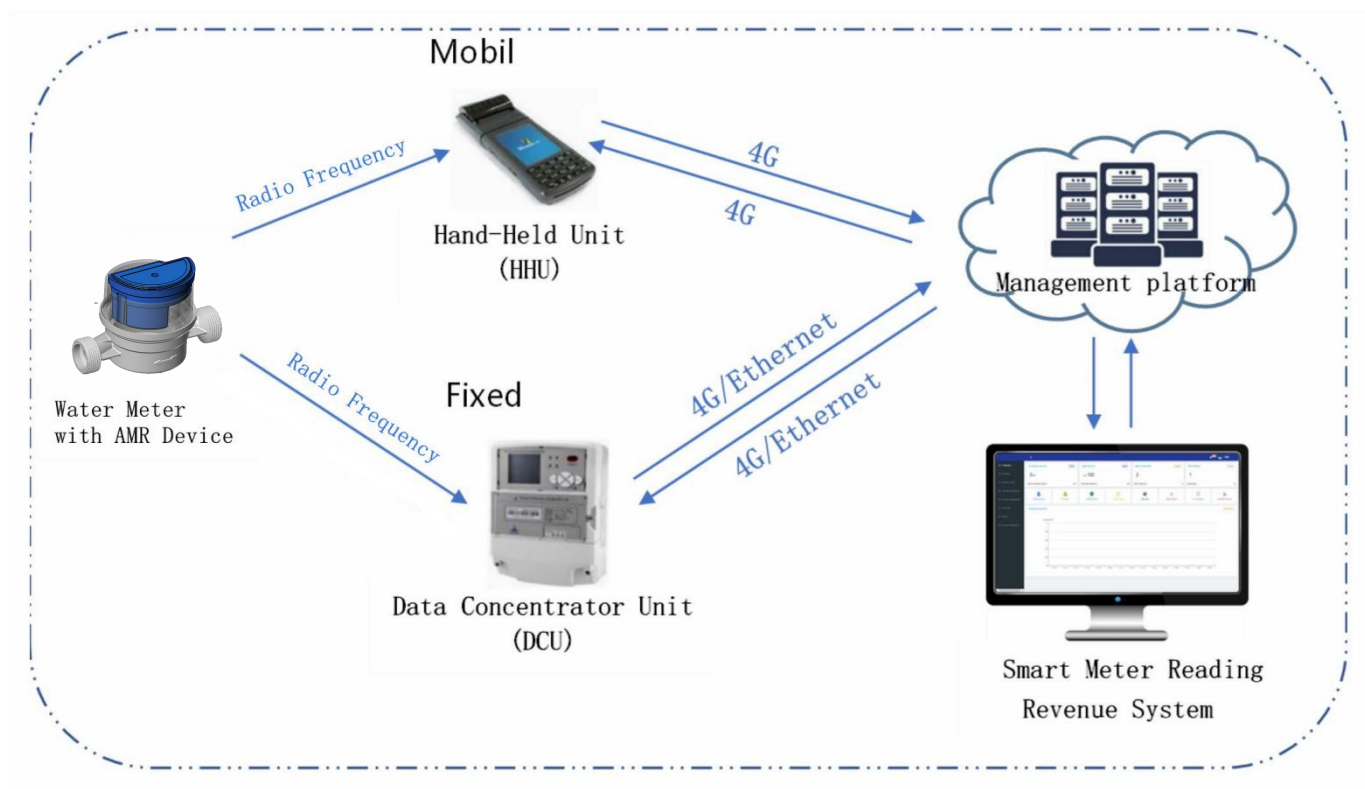
Communication >>> - - - - -



Technical Specifications >>>

Type		TF-M
Sensor		Inductive,dual spool
Sensor Resolution		1 Litre
Power Supply	Battery type	Li battery (non-replaceable)
	Battery life	12 years
	Rated Voltage	3V
Radio	Standard	Wireless M-Bus, OMS V4.5.1, EN13757-3/-4
	Modes	T1 / C1
	Frequency	868MHz
	Transmission distance	500m in line of sight
	Transmission interval	Transmit once every 2 minutes (Configurable)
	Transmitter power	25 mW (14 dBm)
	Alarms(Configurable)	Tampering Alarm, Magnetic Fraud Alarm, Back Flow Alarm, Leak Alarm, High/Low Temperature Alarm, Zero Flow Alarm, Low Voltage Alarm, Low Battery Alarm
	Data transmitted	Current volume, Current time, Serial number, Alarms
Data storage capability		Daily/ Monthly / Yearly
Environmental conditions		Storage temperature:-20℃ ~60℃
		Operating temperature: -10℃~55℃

Transmission Solution >>>



Safety Recommendations >>>

Ensure that this product is used in compliant with the requirements of the country and the environment, the following safety precautions must be observed during all phases of the operation, such as usage, service or repair of wireless pulse acquisition products.



Warning:- replacement of a battery with an incorrect type that can defeat a safeguard;

- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.



RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of $d=20$ cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

EU Regulatory Conformance >>>

This product can be used across EU member states.

Hereby, AIMEI declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU
For the declaration of conformity, please contact with sales.

