L'AISON

Global Measurement
Innovation Partner

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AquaLink for Domestic Mechanical Meter Retrofit

LAISON AquaLink is designed for Water Authorities to upgrade existing domestic mechanical water meters with pulse output into smart meters. This non-magnetic, direct-reading smart module adopts Cellular communication protocol, utilizing NB-IoT technology to achieve long communication distance and convenient networking.
The automatic meter data collection & remote control functions drastically reduces the labor cost on door-to-door meter reading and improve efficiency.

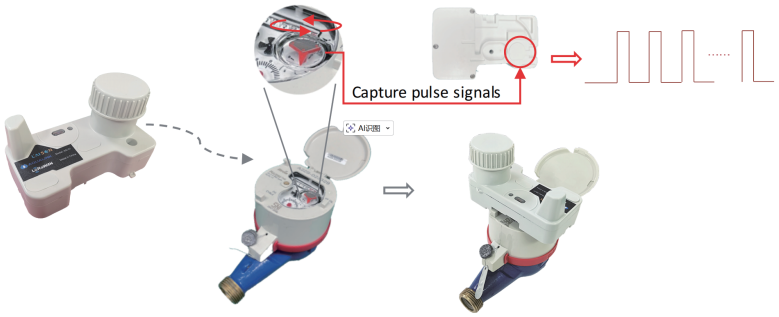
By adopting a separation structure design, the AquaLink module can be fully detachable from the mechanical meter, which simplify both during installation and maintenance process. Moreover, the AquaLink module is impervious to magnetic interference, ensuring precise and reliable measurements.



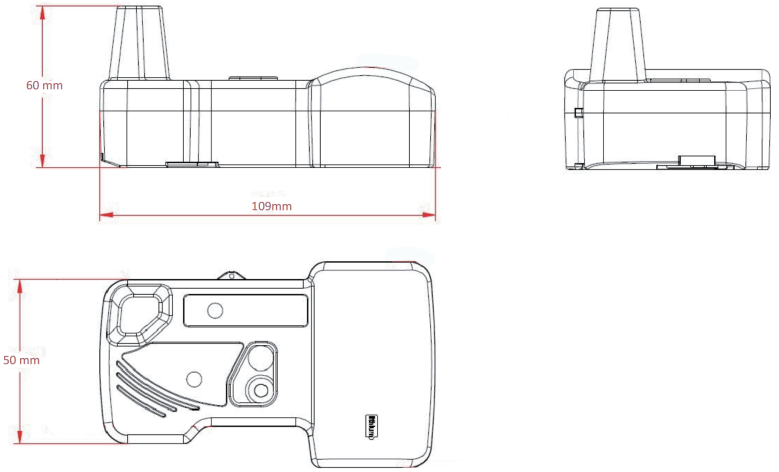
Features

- Low power consumption and large battery capacity to ensure 6+ years battery lifespan, replaceable
- Reverse flow detection & measurement via non-magnetic sensor sampling technology
- Anti-dismantle detection of AquaLink module, audible alarm triggered
- NB-IoT communication protocol comply, compatible to 3rd party IoT applications
- Reserved NFC Comm. for easy operation and configuration
- Reserved Firmware Upgrade via NB-IoT or NFC, ensuring system flexibility and future-proofing
- IP68-rated waterproof to ensure good performance in harsh environments

Work Process



Shape and Installation Dimension



Technical Data

Wireless Comm. Parameters	
Communication Mode	NB-IoT
Power Supply	3.6V/8500mAH
Standby Current	≤80 μA
Operating Current	67mA
TX Current	330mA@23dBm
Frequency Band	Band 8
TX Power	Up to 23dBm
RX Sensitivities	Down to -116dBm
Data Transmission Speed	DL: Max. 127 kbps / UL: Max. 158.5 kbps
Transmission Method	Point-to-Point network
Non-Magnetic Sampling Module	
Sensing Distance	7mm Diameter of steel plate 14mm, 3.6V working voltage
Supports Maximum	2.2 turns/second