HydroMag – M15~20

Multi-Jet Smart Water Meter

The **HydroMag-M15~20** is a cutting-edge **multijet** smart water meter designed for residential use, adhering to the latest **industry standards** for precise water measurement and advanced management. It features a variety of communication options, enabling **seamless integration** with remote monitoring systems for real-time data transmission. To ensure data security, the meter is equipped with robust **encryption**, safeguarding all water consumption data from unauthorized access.

In addition to its measurement capabilities, the HydroMag-M adheres to **STS standards** for **prepayment** operation, allowing homeowners to conveniently top up via multiple methods, such as **CIU , RF Card**, or **online** platforms. The meter supports step tariffs, enabling utility providers to implement tiered pricing based on water consumption levels. It also comes with alarms and event notifications to detect leaks or other anomalies, helping residents manage their water usage more efficiently.

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Main Functionalities:

Prepaid	▪ Support prepaid/postpaid mode ▪ Non-contact NFC CPU/JAVA card prepaid ▪ STS prepaid (Token Carrier: RF card or CIU) ▪ Max.16 steps of water tariff ▪ Anti-storage, Insufficient water warning, Self-defined overdraft
Communication	▪ Wired M-Bus /RS485 ▪ LoRaWAN ▪ Wireless M-Bus(EN13757-4),Walk-by/drive-by ▪ Protocol: EN13757-3, DLMS/COSEM, Modbus-RTU
Advanced Functions	▪ Emergency water, Holidays management, Non-switch-off during off-duty ▪ Monthly free consumption water ▪ Collect taxes and fee by water charges
Alarm & Event Logs	▪ Anti-magnetic, Low-Battery detection & log ▪ Water return, Meter reversal and meter stop detection & log ▪ Leakage (continuous water use, valve failure, etc.) detection & log. ▪ Anti-tamper(open case, open battery cover, tilt, etc.) detection & log ▪ History data, Such as hourly data, Daily data, Monthly data, Etc. ▪ Event logger, Such as top-up, Valve open/close, Etc.
Security	▪ Data encryption, AES-128, STS ▪ Communication security

Key Features:

▪ DN15-DN25, Multi-jet, Super dry

▪ OIML R49/ISO4064/EN14154 Standard

▪ Class B/Class C or R80/Rl00/Rl60, MAP16, IP63, TSO

▪ Integrated design of water meter and ball valve

▪ Touch key, Large size LCD and backlight

▪ Up to 60 channels

▪ Non-contact RF card prepaid or STS4/6 prepaid (IEC62055-41)

▪ Wired or wireless communication

▪ Prepayment, AMR/AMI, Prepayment +AMR/AMI

▪ IP68 protection of the whole meter