

V200H NB-IoT

V210H NB-IoT

High-performance volumetric measurement technology with integrated NB-IoT connectivity supported by Honeywell Forge Performance+ for Utilities software solutions. An important part of ensuring your utility is operating with optimal efficiency and profitability includes the ability to collect regular and reliable data points.

The V200H and V210H NB-IoT hybrid water meters provide these attributes by capturing daily data collection points. Honeywell's Forge Performance+ for Utilities end-to-end software and analytics solutions allow these cold, potable water meters to provide your utility with data points delivered through a reliable, low-cost, secure network. The result is an optimised and efficient network that protects resources and, ultimately, revenue.

These meters also provide an integrated NFC interface, which allows simple configuration of parameters and reading of data. It also enables daily collection of granular data to enhance consumption profile analysis, with near real-time event notifications, such as leakage flow detection and suspected tampering.

ENABLING DIGITISATION OF THE WATER NETWORK

When integrated with Honeywell's market-leading, end-to-end solutions and telecom network provider data bundles, our customers can easily implement state-of-the-art meter data collection and management analytics. Revenue protection notifications are available to help reduce nonrevenue water, optimise payment and billing solutions and improve distribution grid efficiency and overall operational performance. These notifications deliver financial efficiency, ensure sustainability and achieve regulatory objectives.



Data configuration and nonmetrological firmware can be upgraded over the air (OTA) using Honeywell's patented super-efficient download methodology. V200H and V210H NB-IoT can operate for up to 15 years in normal operating conditions (ambient temperature dependent) within NB coverage modes 0 and 1. The meter asset life is optimised by leveraging the capabilities of low power wide area network (LPWAN) technologies.

FEATURES AND BENEFITS



5-8% POSITIVE CASHFLOW IMPACT FROM

- Improved metrology
- Efficient revenue recovery from reduced nonrevenue losses
- Operational efficiencies and savings realised through:
 - More efficient and automatic meter readings
 - Lifetime product value
 - GDPR cybersecurity compliance
 - Proactive response to alerts
 - Remote firmware and configuration updates



EXTENDED COMMUNICATION FEATURES

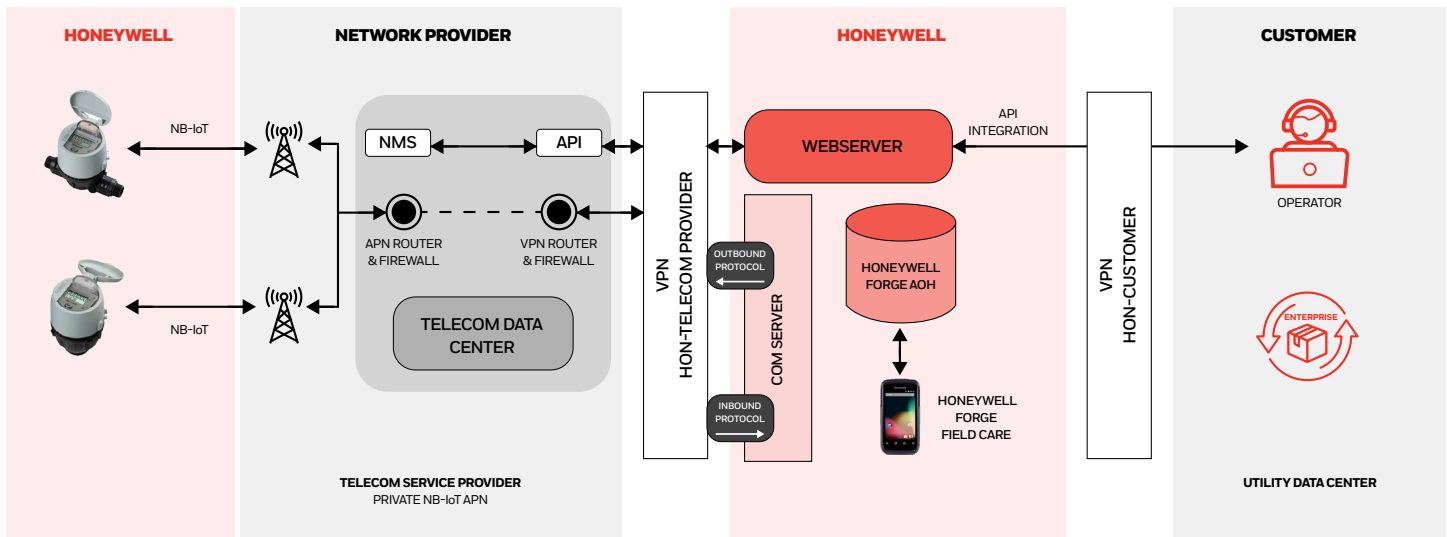
- Patented, highly efficient FOTA download methodology
- NFC interface for local configuration and upgrades via Android field tool
- Up to 15-year battery life (ambient temperature dependent, operating in NB modes 0 and 1)
- Efficient antennae



SECURE DATA

- Advanced AES 128 encryption
- General Data Protection Regulation (GDPR) compliant from unique device key solution support
- Optimised antenna design for extended-range capability
- Tamper-resistant integrated hardware

SOLUTION ARCHITECTURE



GDPR COMPLIANCE

The privacy and security associated with individual customer data are critical. That's why, as part of its validation process and according to the European Union's General Data Protection Regulation (GDPR), regulatory requirements, Honeywell applies the most rigorous cybersecurity standards to its complete range of digitalised water metering infrastructure products and services.

DIGITAL WATER BENEFITS

By implementing the total Honeywell digital water solution of NB-IoT-enabled water meters, data bundle, software and analytics, utilities can realise significant annual savings from improved metrology, efficient revenue recovery, improved customer service, reduced nonrevenue water usage and operational efficiency.

Water utilities can expect a positive cash-flow impact from increased revenue and reduced costs. On request, Honeywell will support utilities in validating business cases based on specific circumstances and local challenges.

V200H & V210H NB-IoT WATER METER BENEFITS

Combining high-performance volumetric measurement technology with the latest end-to-end data solutions, these meters provide:

- High-revenue capture using the latest technological design and materials to accurately record water usage over an extended lifetime, maximising revenues
- Precise volume flow measurements in real time, capturing all flow events, including short, intermittent and disturbed flows, in any installation orientation
- Accurate low-leakage flow capture with a starting flow of 0.5 l/h (DN15) minimises revenue loss and promotes flow demand optimisation
- Future-proof regulatory compliance with industry-leading 0.01-litre, five-decimal display resolution, which surpasses testing guidelines, laws and organisational standards established by WELMEC and the Measuring Instruments Directive (MID)
- Large, clear display with optional flow rate indicator, ensuring consistent data output
- Optimised antenna design ensures network connectivity in multiple installation environments

V200H & V210H NB-IoT TECHNICAL SPECIFICATIONS

APPLICATION DATA	
INGRESS PROTECTION	IP68
ENVIRONMENT CLASS	B
MECHANICAL CLASS	M1
ELECTROMAG CLASS	E1
DISPLAY TYPE	LCD
MEASUREMENT UNIT	Cubic metres (m ³)
DIGIT HEIGHT	Billable: 8mm Decimals: 6mm
DISPLAY RANGE	999,999.99999 m ³
DISPLAY RESOLUTION	0.01 litres
TELL-TALE	Meter operation/ flow direction indicator
ALERT INDICATION	Alert notification type-coded digits
INSTALL ORIENTATION	Any
DISTURBANCE CLASS	U0/D0
PRESSURE CLASS MAP	PN 16
HEADLOSS CLASS Δp	0.63 bar
AMBIENT TEMPERATURE	-10°C to +55°C
STORAGE TEMPERATURE	-25°C to +70°C

COMMUNICATION DATA	
RADIO MODULE	Cellular NB-IoT
RADIO BANDS SUPPORTED	Band 3, 8 and 20
SIM	eSim MFF2 format with optional eUICC support
BATTERY LIFETIME	Up to 15 years (ambient temperature dependent) in coverage modes 0 and 1
COMMUNICATION	<ul style="list-style-type: none"> • Daily frame – profile interval configurable to 15, 30 and 60 min • Weekly frame – previous 14 days' meter readings at midnight, check for OTA firmware or configuration update, time synchronisation • NRT frame – various alarms • NFC port – local port for reading and configuration or firmware update via Android field tool • Network status – signal strength and quality, cell tower ID and coverage mode • Firmware update (FOTA) and remote configuration
DATA SECURITY	<ul style="list-style-type: none"> • AES 128 encryption • Data encrypted at rest and during transmission • APN & VPN utilized in solution offerings • GDPR compliant with unique pure keys in each device • Honeywell cybersecurity-approved
ALARMS SUPPORTED	Leak, burst, back flow, no consumption, battery low – all configurable

For the full technical specifications of the associated water meters, please refer to the relevant V200 and V210 specification sheets.

For more information

<https://automation.honeywell.com/us/en/solutions/smart-energy>

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