

TECHNICAL PRODUCT BROCHURE

Unimet Lite

Smart LoRaWAN and wM-Bus OMS module for universal remote water metering. One device for advanced smart metering projects.

50+

SUPPORTED
METER TYPES

15 yr

BATTERY LIFE

IP68

WATERPROOF
HOUSING



Universal retrofit

Interchangeable clip-on adapters enable instant compatibility with over 50 meter types.

Dual-stack concept

LoRaWAN and wM-Bus OMS communication supports flexible migration and deployment models.

Automated alarms

Reports burst, backflow, leak, no flow, tamper, low temperature and low battery conditions.

Two variants for different metering scenarios

Unimet Lite is designed for seamless remote reading using an advanced dual-stack concept. It is available as a clip-on water meter module or as a pulse reader for multi-meter installations.



Unimet Lite WMC

Water Meter Clip-On

Built-in inductive and magnetic sensors with dedicated adapters enable direct mounting on major mechanical water meter models.



Unimet Lite PR

Pulse Reader

Four independent pulse input channels monitor up to four meters simultaneously, with tamper protection and bidirectional flow management.

01

Mechanical meter

Installed water meter in the field

02

Unimet Lite

Clip-on or pulse reader variant

03

LoRaWAN + OMS

Dual-stack low-power communication

04

Metering platform

Billing, analytics, operations and utility system integration

Remote readings

Remote readings with data logging, due-date logging and historical records for billing and analytics.

NFC setup

Local NFC setup and firmware upgrade simplify commissioning and maintenance.

Alarm detection

Automated alarms include low battery, low temperature, tamper, burst, backflow, no flow and leak events.

Meter migration

Zero-touch migration enables meter replacement without device reconfiguration.

Rugged housing

IP68 waterproof enclosure for demanding water metering environments.

Long service life

Up to 15 years of battery life in dual-stack configuration.

Typical applications

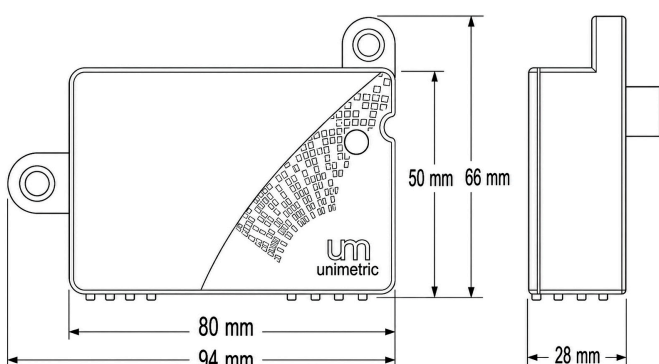
Municipal water utilities, property management, smart city metering, sub-metering, industrial water monitoring and retrofit AMR projects.

Specifications and compatibility

Technical parameters cover both WMC direct-mount and PR pulse-reader variants, including communication, sensing interface, data logging, alarms and meter compatibility.

Meter interface	WMC: dual inductive & magnetic sensor PR: 4-channel pulse input compatible with dry-contact and open-drain signals
Wireless M-Bus	EN 13757, OMS v4.5.1, T1 unidirectional, 868.95 MHz, configurable Tx interval
LoRaWAN	LoRaWAN Certified, EU868, TS001-1.0.4, RP002-1.0.3, Class A, configurable Tx interval
RF power	Up to 14 dBm EIRP (LoRaWAN dynamic ADR); 13 or 14 dBm EIRP configurable (wM-Bus)
Power supply	Integrated lithium battery
Battery life	Up to 15 years in dual-stack configuration*
Configuration & FW	Remote via LoRaWAN downlink, local via NFC (including Firmware Upgrade Over NFC)
Datalogging	Last 24 hourly logs, 365 daily logs, 60 monthly logs and 13 yearly logs
Alarms	Low battery, low temperature, physical tamper, magnetic tamper, burst, backflow, no flow, leak <i>Configurable alarm thresholds; separate storage for active and historic/latched alarms</i>
Environmental rating	IP68, -20°C to +60°C, UV-resistant grey polycarbonate housing
Compliance	EN 301 489-3, EN 301 489-1, EN 62368-1

Product dimensions



Supported models

WMC direct mounting compatibility

Honeywell-Elster

Artist M100i, M120i, M190i, H4000, C4000, C3100, S2000, S110ER, S220, S150, V200, V210

Honeywell-Elster

Artist M100, M120, M190, MTH, MNR-KN, MTR

Sensus

120, 420, 620, 220, MeiTwin, MeiStream

Maddalena

MVM, WMAP-EVO

B Meters

GMB, GMB-RP-I, GMB-I, GMDM-I, WDE-K50

Zenner

MTWD, RTKD, RTKP, WPD, WPHD, WPVR

Itron

Aquadis, Flodis, Flostar, Woltex+

Diehl

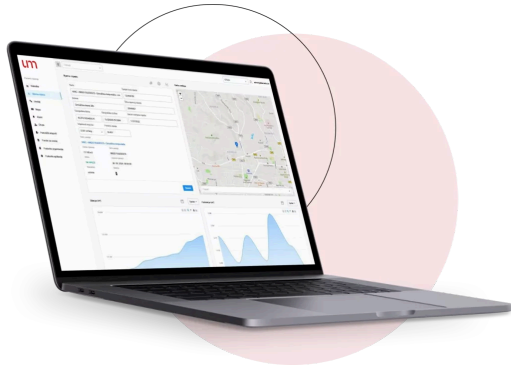
Auriga, Aries, Aquila, Altair, Corona MWI, MWI2, MCI, Wesan WP, WS, WPV

PR variant is compatible with all meters with pulse output. Compatibility with other water meter models for WMC direct mounting is available on request.

* Note: Battery lifetime depends on network coverage (Spreading Factor), transmission frequency, and ambient temperature profiles.

From field devices to actionable metering data

UniMetric connects smart metering devices, field installations and utility workflows through a web application for monitoring, configuration, alarms and data analysis.



IoT platform for smart city metering

Centralized collection and visualization of meter data helps utilities track consumption, react to alarms and manage connected devices across distributed installations.

Device management

Consumption analytics

Alarm monitoring

Remote configuration

FOTA / OTA updates

Map-based overview

RETROFIT DEPLOYMENT BENEFITS

Smart metering rollout without full meter replacement

01

Smart upgrade for proven mechanical meters

Clip-on installation turns existing mechanical meters into smart metering endpoints, adding remote readings, alarms and data logging without replacing the meter body.

02

Lower deployment and operating cost

Retrofit installation is faster, simpler and less disruptive than full meter replacement, helping utilities scale smart metering projects with fewer field hours and lower rollout complexity.

UNIMET SERIES

Discover other products from the Unimet portfolio

For projects with different connectivity requirements, UniMetric offers additional devices such as Unimet Pro.



Ready for a pilot deployment?

Contact UniMetric for meter compatibility review, sample devices and integration support.

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