

PRODUCT DATASHEET

CHESTER Energy

Read existing electricity, water, and gas meters over RS-485 Modbus and deliver consumption data to the cloud — battery or mains powered, no manual reading visits.



REFERENCE NUMBER HPD.260706.10-R1 DATE July 6, 2026

RS-485

Modbus interface

7 700

mAh battery capacity

< 180 μ A

idle consumption

IP67

enclosure rating

Why integrators pick it

■ Modbus RS-485 interface

Connects to multiple Modbus-compatible energy meters via an RS-485 bus — up to 8 devices polled from a single unit — for standardized, reliable data collection.

■ Battery or mains powered

Runs for years on a single lithium battery, or operates on 6–28 VDC external power for continuous, scheduled readouts — one device covers both retrofit and new-build deployments.

■ Custom meter support

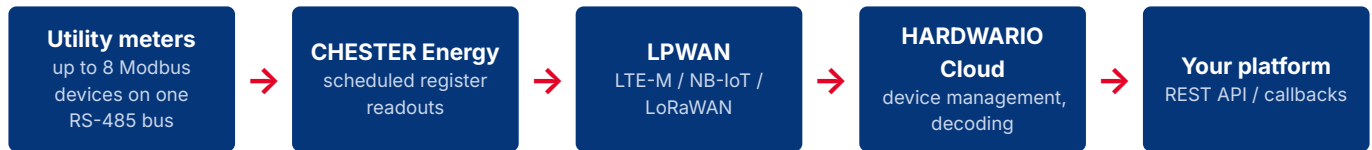
Configurable Modbus register maps allow connection to virtually any Modbus-compatible energy, water, or gas meter — including the meters already installed on your client's site.

■ Scheduled reporting

Meter readouts run at configurable intervals and are transmitted via NB-IoT, LTE-M, or LoRaWAN — consumption data lands in the cloud without any on-site collection infrastructure.

Where it fits

CHESTER Energy is the fastest path from meters on a wall to consumption data in your client's systems: granular energy data for audit-ready ESG reports and carbon accounting, sub-metering of departments, production lines, or tenants for fair cost allocation, abnormal-consumption patterns that reveal water leaks or compressed-air losses, and unified dashboards across a multi-building portfolio — all without manual reading visits.



From existing meters to your client's dashboard — the device polls configured Modbus registers on schedule and reports in batches.

The device polls the configured Modbus registers of each connected meter on a schedule and transmits the readouts in batches — radio time stays low and batteries last years. Local commissioning and firmware updates run over Bluetooth Low Energy from a phone with HARDWARIO Manager; fleets are managed remotely through HARDWARIO Cloud with data handover via REST API or HTTP callbacks to any energy management, billing, or BMS platform you run.

Technical specification

METERING

Bus	RS-485
Protocol	Modbus
Connected devices	Up to 8 Modbus devices
Register maps	Configurable — supports virtually any Modbus-compatible energy, water, or gas meter
Readout scheduling	Configurable intervals

CONNECTIVITY

Cellular	LTE-M / NB-IoT (Nordic nRF9160)
LoRaWAN	Class A, EU868 (Murata Type ABZ, LoRaWAN 1.0.2)
Local access	Bluetooth Low Energy — configuration and firmware updates via HARDWARIO Manager

POWER

Primary battery	Lithium cell 3.6 V, 7 700 mAh
Battery life	3+ years at typical readout intervals
External power	DC 6 V to 28 V for continuous operation
Idle consumption	< 180 μ A
Peak consumption	< 250 mA

ENVIRONMENT & MECHANICAL

Operating temperature	−20 to +60 °C
Storage temperature	−30 to +70 °C
Ingress protection	IP67
Dimensions	130 × 175 × 45 mm

Ordering information

CHESTER Energy is configured to order. When the order is placed, three things are specified: the **meter register map** — an initial configuration for your client's meter models, readout interval, and required consumption values; the **power option** — internal lithium battery or DC 6–28 V external power; and the **connectivity** — NB-IoT, LTE-M, or LoRaWAN delivery into HARDWARIO Cloud, ESG reporting, BMS, or billing workflows. Tell us which meter types and Modbus registers are used, how often readings should be captured, and which system consumes the data — units arrive pre-configured for the site.

COMPLIANCE

CHESTER Energy conforms to the Radio Equipment Directive 2014/53/EU — including the EN 18031-1 cybersecurity requirements mandatory since August 2025 — and the RoHS Directive 2011/65/EU, and to the equivalent UK statutory requirements. The built-in radio modules additionally carry FCC certifications for the US market.

Declaration of Conformity: HDC.260706.09

CE
UKCA

Scope a metering pilot

A CHESTER Energy evaluation unit connects to your client's existing meters and reports to your platform in an afternoon. Tell us about the application — meter models, Modbus registers, readout intervals, connectivity on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore CHESTER Energy in the HARDWARIO store](#)
- [Learn more about the CHESTER platform](#)

ABOUT HARDWARIO

HARDWARIO a.s. designs and manufactures industrial IoT devices in Liberec, Czech Republic. Founded in 2016 and listed on the Prague Stock Exchange, the company does more than 80 % of its business through its partners.

HARDWARIO a.s.

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