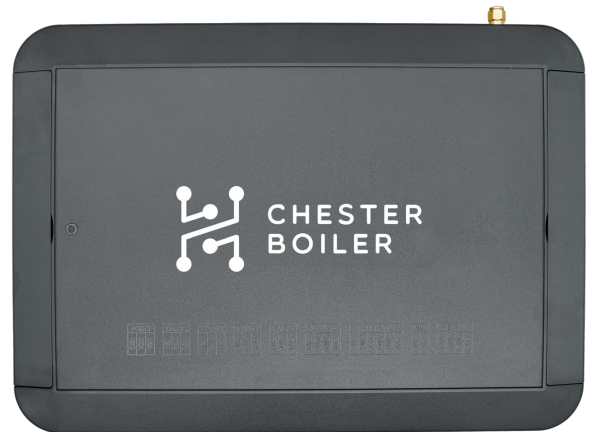


PRODUCT DATASHEET

CHESTER Boiler

Continuous remote monitoring of boiler rooms — temperatures, pressures, and leak detection, even in unattended facilities.

REFERENCE NUMBER HPD.260706.04-R1 DATE July 6, 2026


10

temperature probes

2× 16 A

relay outputs

8–36 V

DC power input

RS-485

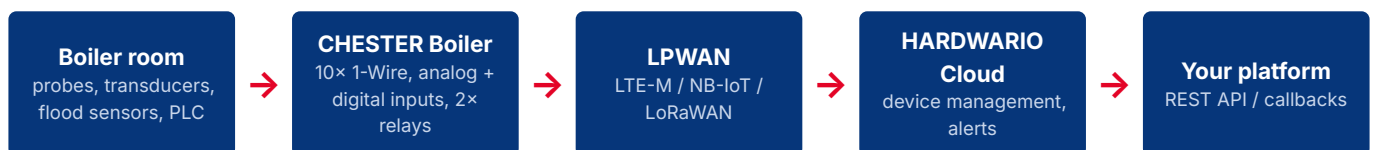
PLC communication

Why integrators pick it

- The whole boiler room on one device**
 Up to ten 1-Wire temperature probes profile supply and return water, flue gas, and room conditions — detailed thermal coverage of the entire system from a single unit.
- Switching, not just sensing**
 Two integrated 16 A relays switch heating, cooling, or pumps on defined thresholds, while RS-485 connects PLCs for advanced boiler diagnostics.
- Pressure and leak detection built in**
 4–20 mA pressure transducers reveal drops that indicate leaks or valve failures; connected flood sensors catch water early — before damage and emergency call-outs.
- Remote alerts, unattended sites**
 Reports over LTE-M, NB-IoT, or LoRaWAN and raises instant notifications when parameters go out of range — no more surprises from unattended boiler rooms.

Where it fits

CHESTER Boiler turns a portfolio of plant rooms into one dashboard: multi-site boiler management without routine site visits, heating optimization that spots supply/return imbalances before they show up on the fuel bill, automated logging that produces the audit trail insurers and inspectors expect, and property management that acts on data instead of tenant complaints.



From plant room to portfolio dashboard — thresholds raise alerts in the cloud, relays act locally.

Local commissioning runs over Bluetooth Low Energy from a phone with HARDWARIO Manager — inputs and settings are configured on site without a laptop. Fleets are managed remotely through HARDWARIO Cloud with data handover via REST API or HTTP callbacks to the building management or maintenance platform you already run.

Technical specification

MEASUREMENT & I/O

Temperature probes	Up to 10× 1-Wire sensors
Analog inputs	0–26 VDC, 4–20 mA
Digital inputs	NPN/PNP, dry contact, pulse counting
Relay outputs	2× 16 A
PLC communication	RS-485

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
Antenna	Internal, or external

POWER

Power supply options	Battery (size C or D cells) or power adapter
DC power input	8–36 V
Nominal battery voltage	3.6 V

ENVIRONMENT & MECHANICAL

Operating temperature	–20 to +60 °C
Storage temperature	–30 to +70 °C
Dimensions	200 × 280 × 45 mm

Ordering information

CHESTER Boiler is built on the CHESTER platform in the large-format 200 × 280 × 45 mm enclosure and is configured to the site at order time: the number of 1-Wire probes, the analog and digital input mix, relay use, and battery versus DC powering. Contact HARDWARIO with your site parameters — probe layout, transducer types, and power available in the plant room — for the exact ordering configuration.

COMPLIANCE**CE****UKCA**

CHESTER Boiler 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.260706.03

Scope a boiler-room pilot

A CHESTER Boiler evaluation unit instruments one plant room and reports to your platform in an afternoon. Tell us about the installation — probe points, transducers, relay loads, power on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore CHESTER Boiler in the HARDWARIO store](#)
- [Read the developer documentation](#)

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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