

PRODUCT DATASHEET

CHESTER Display

Bring sensor readings to the people on-site — a graphical LCD and integrated buzzer show current values and alarm states right on the device, while every measurement still flows to the cloud.



REFERENCE NUMBER HPD.260706.09-R1 DATE July 6, 2026

400 × 240 px

graphical LCD readout

IP65

enclosure rating

-20 / +60 °C

operating temperature

Why integrators pick it

■ At-a-glance readings

The graphical 400 × 240 pixel LCD shows multi-channel temperature and humidity readings with OK/ alarm states directly on the unit — staff see current conditions without opening an app.

■ Modular display cover

The CHESTER-D1 top-cover module adds the graphical LCD and buzzer to the standard CHESTER platform, controlled from the CHESTER-M mainboard via I²C commands.

■ Audible alerts

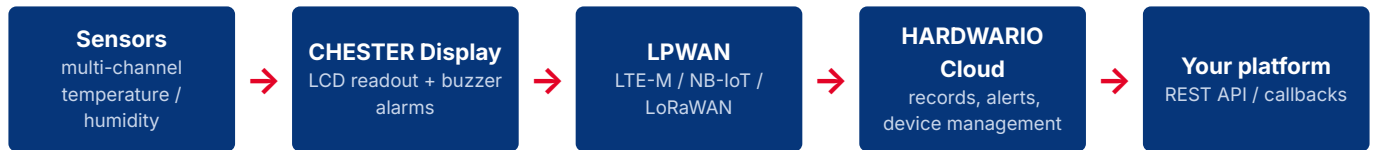
The integrated buzzer signals out-of-range conditions the moment they occur — people in the room can react immediately, with no missed e-mails or silenced phones.

■ LPWAN connectivity

Transmits via NB-IoT, LTE-M, or LoRaWAN from deep indoor locations and remote sites where Wi-Fi doesn't reach — cloud records run in parallel with the local readout.

Where it fits

CHESTER Display serves the sites where a dashboard is not enough: hospital pharmacies, wards, and laboratories where clinical staff need alerts at the point of care, cold rooms where conditions are checked right at the door while continuous cloud records keep audits covered, and cleanrooms, production areas, and storage facilities where the current values must be visible in the room. It is proven in healthcare — O.K. Servis BioPro uses CHESTER Display to monitor environmental conditions across multiple hospitals.



One device, two audiences — staff on-site read values and alarm states on the LCD, while the compliance team gets continuous cloud records.

Configurable thresholds drive both alarm paths at once: when a value goes out of range, the buzzer sounds where people actually work, and a cloud alert notifies the wider team in parallel. The device runs on its primary battery — no mains wiring at the mounting point. 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.

Technical specification

DISPLAY & SIGNALLING

Display type	Graphical LCD, no backlight
Display resolution	400 × 240 pixels
Display module	CHESTER-D1 top cover, controlled via I ² C
Audible signalling	Integrated buzzer

MONITORING

Readout	Multi-channel temperature and humidity with OK/alarm states
Alarm thresholds	Configurable limits trigger the on-device buzzer and cloud alerts

CONNECTIVITY

Cellular	LTE-M / NB-IoT
LoRaWAN	Supported
Local access	Bluetooth Low Energy — configuration and firmware updates via HARDWARIO Manager

POWER

Primary battery	Lithium cell 3.6 V, 7 700 mAh
Idle consumption	< 180 µA
Peak consumption	< 250 mA

ENVIRONMENT & MECHANICAL

Operating temperature	−20 to +60 °C
Storage temperature	−30 to +70 °C
Ingress protection	IP65
Dimensions	130 × 175 × 45 mm

Ordering information

CHESTER Display is built on the standard CHESTER platform — the parts below are the Display-specific components. The CHESTER-M mainboard variant and the sensor set are specified at order time to match the monitored channels and the connectivity on site.

Ordering code	Description
CHESTER-D1	Top-cover display module — 400 × 240 px graphical LCD and buzzer, I ² C-controlled
CHESTER-E11-P	Enclosure for CHESTER with the D1 display cover, with SMA antenna pigtail

COMPLIANCE

CHESTER Display 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.260706.08

CE
UKCA

Scope an on-site readout pilot

A CHESTER Display evaluation unit shows live readings with alarm states in your client's rooms and reports to your platform in an afternoon. Tell us about the sites — monitored channels, alarm thresholds, who needs the cloud records — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore CHESTER Display 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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