

PRODUCT DATASHEET

GAUGER

Retrofit production monitoring for any machine — count 24 V pulses on the DIN rail and serve the data straight to MES and SCADA.

REFERENCE NUMBER HPD.260706.21-R1 DATE July 6, 2026


4

isolated pulse inputs

Modbus

TCP server built in

1 W

idle consumption

DIN

rail retrofit mount

Why integrators pick it

■ Any machine, with or without a PLC

Four galvanically isolated inputs count pulses from 24 V industrial PNP signals — cycle counts, product counts, machine states. Legacy equipment without any digital interface connects just as easily as a modern line.

■ Data where your systems expect it

Counts accumulate on the device; your PLC, SCADA, or MES reads them from the built-in Modbus TCP server or polls the REST API — activation and deactivation counters plus live input states, ready for OEE dashboards and downtime alerts.

■ Non-invasive retrofit

Mounts on a standard DIN rail in the machine cabinet and wires to existing 24 V signals. No PLC reprogramming, no production stop — data starts flowing without touching the machine's control logic.

■ Configured in minutes

A built-in web interface and HTTP API handle setup over Wi-Fi or Ethernet, and firmware updates arrive over the air. From cabinet to counting within the first maintenance window.

Where it fits

GAUGER closes the gap between the production floor and the systems that run it: real-time OEE tracking, digital ANDON alerts when machines stop, digitalization of legacy machines without PLCs, cycle-pattern data for predictive maintenance, and per-machine correlation of energy use with output. Because the data is exposed over standard Modbus TCP and REST, it lands in the MES, SCADA, or BI stack your client already operates — no proprietary cloud in between.



From machine signal to OEE dashboard — counters accumulate on the device and your systems poll them whenever they need.

Technical specification

INPUTS

Digital inputs	4× galvanically isolated pulse-counting inputs
Input logic	PNP, 24 V industrial signals
Input threshold voltage	12 V
Maximum input voltage	28 V DC
Counters	Activation and deactivation counts per input, plus live input state

INTEGRATION

Modbus TCP	Built-in server — counters and input states in holding registers (function code 03)
REST API	HTTP API for data readout and configuration
Web interface	Built-in configuration UI
Firmware	Over-the-air (OTA) updates

CONNECTIVITY

Wi-Fi	2.4 GHz, IEEE 802.11 b/g/n; SMA antenna connector
Ethernet	10/100Base-T, RJ45

POWER, ENVIRONMENT & MECHANICAL

Power supply	DC 9–28 V, redundant terminal pairs
Idle power consumption	1 W
Maximum power consumption	24 W
Operating temperature	–20 to +70 °C
Enclosure	ABS plastic, DIN-rail mount, 80 × 90 × 33 mm (W × H × D)

Ordering information

GAUGER ships as a single complete unit — power terminals, the four counting inputs, Ethernet, and the SMA connector for the Wi-Fi antenna are all on board. Order it directly from the HARDWARIO store; volume and integration projects are quoted individually.

COMPLIANCE

GAUGER 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.

Declaration of Conformity: HDC.260706.20

CE**UKCA**

Scope a machine-monitoring pilot

A GAUGER pilot instruments the first machines in one afternoon — DIN-rail mount, wire the 24 V signals, and let your MES poll the counters over Modbus TCP or REST. Tell us about the line — machine types, signal availability, network on the floor — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore GAUGER 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.

HEADQUARTERS
U Jezu 525/4
460 01 Liberec
Czech Republic

HARDWARIO LTD

LONDON OFFICE
10 John Street
London WC1N 2EB
United Kingdom

HARDWARIO LLC

HOUSTON OFFICE
2500 Wilcrest Dr, Suite 624
Houston, Texas 77042
USA