



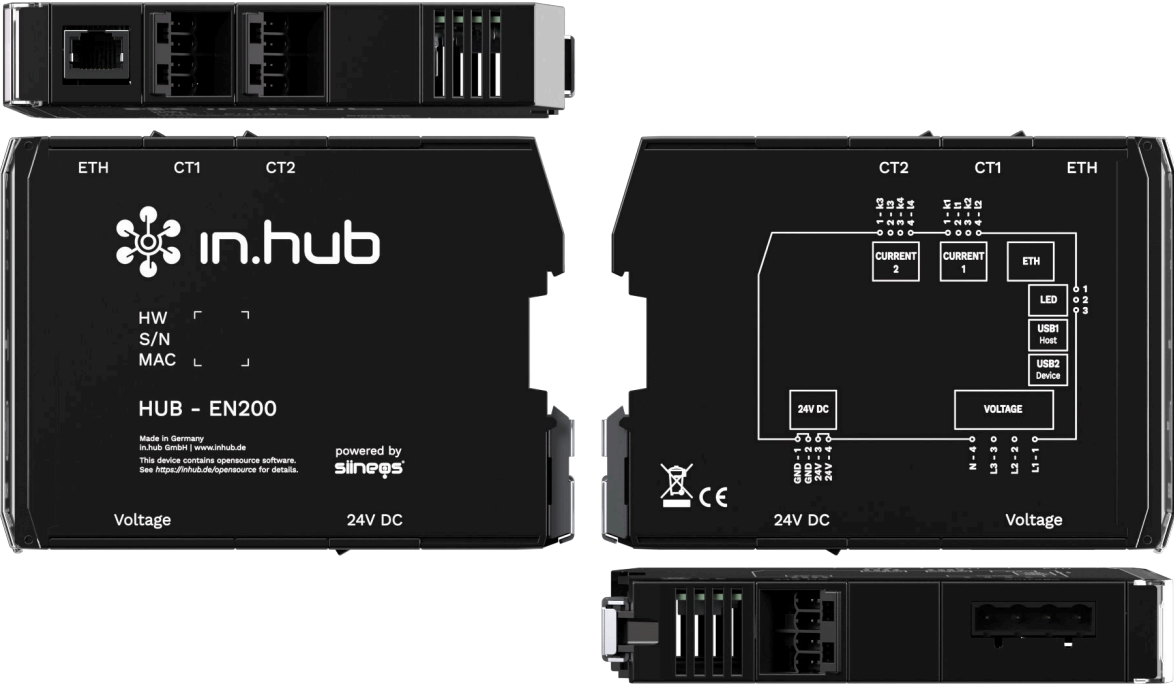
HUB-EN200

Technical data sheet

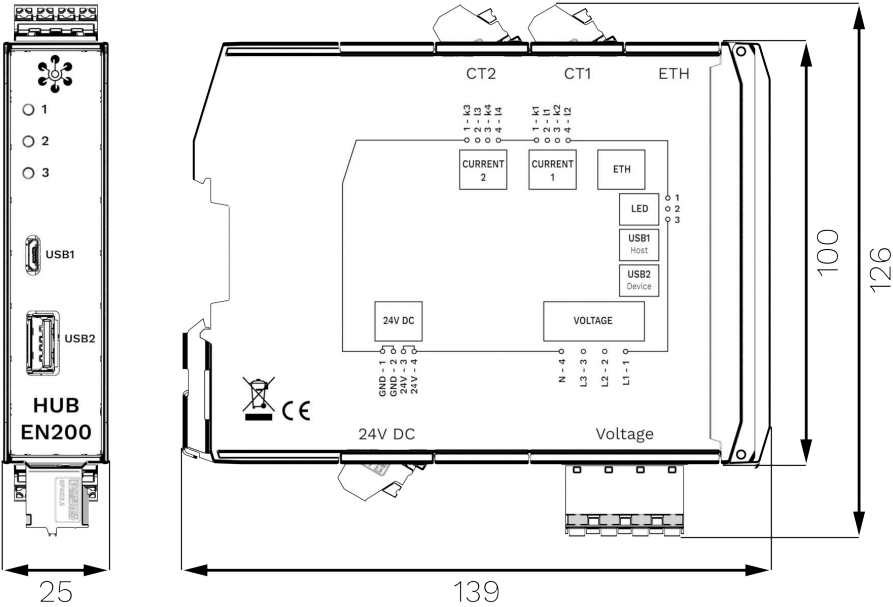
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Views of the HUB-EN200

Device views



Schematic diagram



Dimensions of the HUB-EN200 in mm

Technical data

Data	Values
Power supply	24 V DC \pm 10 %
Max. power consumption	5 W
Processor	NXP® i.MX 6ULL
Memory	1 GB DDR3L RAM, 8 GB eMMC
Data interfaces	USB1: Host (Micro USB) USB2: Device (USB-A) Ethernet: 100 Mbit/s 3× status LEDs Backplane bus
Voltage and current measurement	1~ or 3~, 230 V / 400 V, 50 or 60 Hz, max. 4× AC current sensors, sampling rate up to 8 kHz and 16 bit, resolution of current and voltage measurement,
Protocols	OPC UA server + client MQTT broker client + server Modbus TCP/IP broker client + server
Operating system	SIINEOS IIoT operating system for configuration and data visualization (via Micro-USB or Ethernet)
Housing	Plastic (polyamide), black, flammability class UL 94 V0
Protection class	IP20
Dimensions	139 mm × 100 mm × 25 mm
Weight	150 g

Ambient conditions	Values
Temperature range	Storage: -40°C to 85°C Operation: 0°C to 50°C
Humidity	Storage: 10% to 95% RH, non-condensing Operation: 20% to 90% RH, non-condensing
Operating altitude	Max. 2000 m above sea level

Voltage measurement (voltage)	Values
3-phase, 4-wire system with nominal voltage (L-N/L-L)	max. 253 V / max. 440 V
Overvoltage category	300 V CAT III
Sampling frequency	8 kHz
Bandwidth	1 ... 2000 Hz
Resolution	16 bit

Current measurement (CT1 and CT2)	Values
Internal measuring resistance	6 Ohm
Maximum current of inputs CT1 and CT2	117 mA eff.
Sampling frequency	8 kHz
Bandwidth	1 ... 2000 Hz
Resolution	16 bit
Maximum measurable current with current transformer of the CCT series current sensor (n = 3000)	350 A (crest factor = 1.41) 250 A (crest factor = 2)

Storage	Values
Recording interval	Minimum 1 second
Storage	Up to 7 GB usable
Data export	VictoriaMetrics

SIINEOS	
Pre-installed software	<p>FlexPlorer: Live data visualization</p> <p>Azure IoT Hub Connector: Connector to the Microsoft® IoT platform</p> <p>Cloud of Things Connector: Connector to the Telekom® IoT platform</p> <p>InGraf: Grafana data visualization</p> <p>NumCorder: Recording of scanned or entered barcodes / serial numbers</p> <p>OPC UA server: Counterpart to the OPC UA client, setting up of a server-client structure with one device</p> <p>NodeRED: Graphical programming of interfaces, services or hardware</p> <p>PromEx: Database configuration of VictoriaMetrics and Prometheus</p> <p>TOSIBOX®: Secure connectivity between the IoT devices</p>
I/O interfaces to third-party systems/devices	<p>S7 PLC client: Connector for the Siemens® S7 controller</p> <p>Sensirion SPS30: Temperature and humidity sensor</p> <p>TBEN-S1-8DIP: TBEN module from TURCK®</p> <p>TBEN-S2-4AI: TBEN module from TURCK®</p>

Measurements and associated Modbus registers

Measurements	Modbus register: Raw value [unit]	Modbus register: Processed value [unit]
Active power L1	31 (UINT16) [W]	310+311 (FLOAT) [W]
Active power L2	32 (UINT16) [W]	320+321 (FLOAT) [W]
Active power L3	33 (UINT16) [W]	330+331 (FLOAT) [W]
Apparent power L1	41 (UINT16) [VA]	410+411 (FLOAT) [VA]
Apparent power L2	42 (UINT16) [VA]	420+421 (FLOAT) [VA]
Apparent power L3	43 (UINT16) [VA]	430+431 (FLOAT) [VA]
Current L1	11 (INT16) [mA]	110+111 (FLOAT) [A]
Current L2	12 (INT16) [mA]	120+121 (FLOAT) [A]
Current L3	13 (INT16) [mA]	130+131 (FLOAT) [A]
Current N	14 (INT16) [mA]	140+141 (FLOAT) [A]
Voltage L1	21 (INT16) [V]	210+211 (FLOAT) [V]
Voltage L2	22 (INT16) [V]	220+221 (FLOAT) [V]
Voltage L3	23 (INT16) [V]	230+231 (FLOAT) [V]

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in.hub GmbH
Technologie-Campus 1
DE-09126 Chemnitz

+49 371 335 655 00
info@inhub.de