in.hub

Energy monitoring
HUB-EN200

APPLICATIONS:

- Power- and performance monitoring
- Energy management
- Process control
- Efficiency enhancement
- Productivity monitoring

The HUB-EN200 is used for continuous measurement and evaluation of currents and voltages in 1- and 3-phase networks with neutral conductor. It is thus ideally suited for energy monitoring of machines and plants. Internal data recording, storage and processing is performed directly in the device. The user-friendly, graphical web interface of in.hub's own IoT operating system SIINEOS facilitates configuration and commissioning, as well as access to your data. The HUB-EN200 can be easily integrated into a network (via LAN, WLAN, LTE) and connected to higher-level systems through numerous software interfaces. In addition, the HUB-EN200 is compatible with all systems that also use SIINEOS, so you can network a wide range of devices.

area

IIoT operating system SIINEOS

Specifications	
Processor	NXP IMX6ULL
Memory	1 GB DDR3L RAM, 4 GB eMMC
Power supply	24 V DC, ~100 mA
Interfaces	1~ or 3~, 230 V / 400 V, 50 or 60 Hz | up to 4 x AC current sensors with up to 600 A, sampling rate up to 8 kHz and 16 bit resolution of current and voltage measurement | USB host (Micro USB) | USB device (USB-A) | Ethernet via RJ45 up to 100 Mbit/s | 3 x Status LEDs
Advanced measuring features	Total and fundamental active power, volt amperes reactive (VAR), volt amperes (VA), watthour, VAR hour, and VA hour; Total and fundamental IRMS, VRMS; Power factor; Total harmonic distortion (THD)
Supported standards	Active energy standards: IEC 62053-21 and IEC 62053-22, EN50470-3, OIML R46 and ANSI C12.20 Reactive energy standards: IEC 62053-23, IEC 62053-24
HMI	IIoT operating system SIINEOS for configuration and data visualization (via Micro-USB or Ethernet)
Temperature range	Storage: -40 °C to 85 °C | Operation: 0 °C to 50 °C
Relative humidity	Storage: 10 to 95 % RH non-condensing | Operation: 20 to 90 % RH non-condensing
Protocols	OPC UA, MQTT, Modbus TCP/IP
Dimensions | Weight	139 mm x 100 mm x 25 mm | 149 g
Protection class	IP20