

GATEWAY NANO

Compact Monitoring Gateway for PV Inverters, Energy Meters and Sensors

The Gateway Nano is a compact gateway for the online connection of single PV inverters, energy meters and sensors. It collects data mainly via Modbus RTU and transmits it via MQTT with TLS encryption to the EcoPhi Cloud.

Data transmission is available via 2.4 GHz WiFi or 4G LTE Cat 1 cellular.

In case of a network outage, up to 1000 data points can be stored locally and transmitted once the connection is restored.



KEY FEATURES



Monitoring of field devices

Connection of single PV inverters, energy meters and sensors



Modbus RTU data acquisition

Reading data from up to 32 devices via one RS485 interface



Digital inputs with pulse counting

Two digital inputs, e.g. for reed contacts on water meters or door sensors



Cloud connection

Data transmission via MQTT with TLS encryption to the EcoPhi Cloud



Wireless communication

Data transmission via 2.4 GHz WiFi or 4G LTE Cat 1 cellular



Buffering during network outages

Storage of up to 1000 data points



Local and remote setup

Configuration via EcoPhi platform or locally via GUI using Android device or laptop



OTA firmware updates

Firmware updates over-the-air



IDEAL FOR

- Single PV inverters
- Energy meters
- Reed contacts, e.g. on water meters or door sensors
- Simple sensor and measurement applications
- Small PV systems
- Retrofitting existing plants
- Applications without local control requirements



BENEFITS

Benefit	Description
Compact design	Device dimensions: 140 x 120 x 30 mm
DIN-Rail mounting	Mounting on DIN rail possible
Flexible setup	Remote via EcoPhi platform or locally via GUI
Wireless data transmission	Communication via WiFi or 4G LTE Cat 1
Secure transmission	MQTT communication with TLS encryption
Data buffering	Up to 1000 data points during network outages
Sensor integration	Two digital inputs for reed contacts and pulse counting
Focus on monitoring	No control functions included



TECHNICAL SPECIFICATIONS

Interfaces	1x RS485, 2x digital inputs (pulse counting), up to 32 devices via RS485
Protocols	Modbus RTU, MQTT (TLS)
Connectivity	2.4 GHz WiFi or 4G LTE Cat 1 (SIM)
Data buffering	Up to 1000 data points
Setup	Remote via EcoPhi platform or local via GUI (Android or Laptop)
Updates	OTA firmware updates
Power supply	9-29 V DC (typ. 24 V DC)
Dimensions / Weight	140 x 120 x 30 mm / 120 g
Mounting	DIN-Rail / Hutschiene
Enclosure	3D-printed enclosure



HARDWARE PRICING (GATEWAY NANO)

Units	Price per Unit	Units	Price per Unit
1	339€	100	239€
5	299€	200	209€
10	279€	300	189€
25	269€	400	179€
50	250€	500	175€

All prices are net prices in EUR, excluding VAT.



MONTHLY PLATFORM FEES PER DEVICE

Platform Package	A 1-99 kW	B 100-199 kW	C 200-399 kW	D 400-699 kW	E 700-999 kW	F 1,000-1,499 kW	G 1,500-1,999 kW	H 2,000-2,999 kW
CP-1 Monitor	1 €	3 €	10 €	18 €	28 €	52 €	57 €	64 €
CP-2 Analyze	4 €	6 €	16 €	26 €	38 €	67 €	87 €	92 €
CP-3 Optimize	8 €	10 €	20 €	34 €	50 €	83 €	98 €	122 €

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