


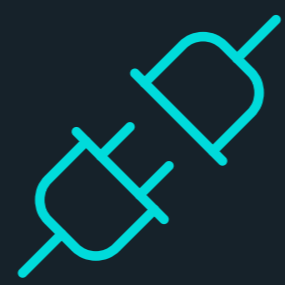

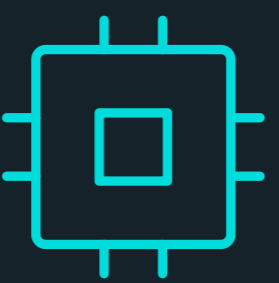


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CHARGE POINT INTELLIGENCE

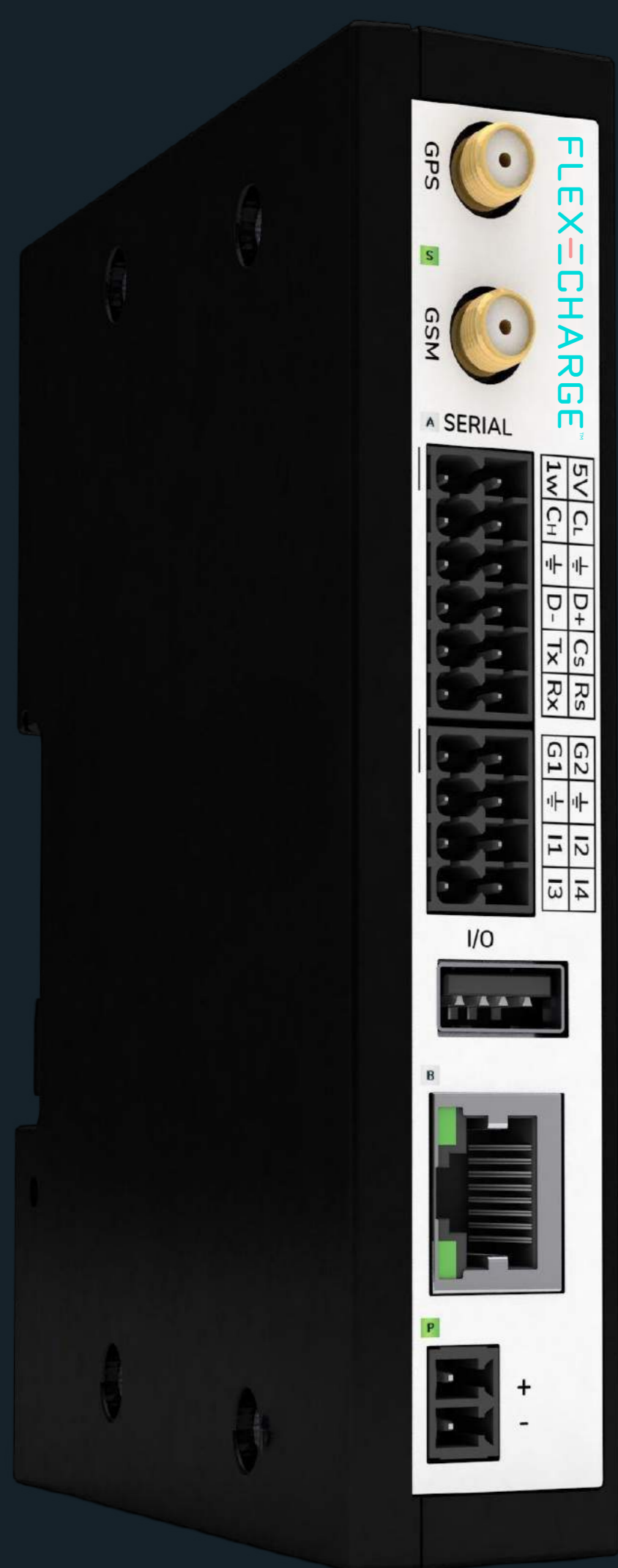
HARMON=™

Datasheet Gateway & Components

Gateway Connect

Gateway Connect is the corner stone of any local optimisation with HARMON-E. If you are looking for some inspiration on when to use Gateway Connect, please refer to table on the last page for an overview of features. The local controller includes software to monitor loads, control energy assets, update data to the cloud and to give operators access a web-based user interface.

 <p>Rapid Rollout</p> <p>Standardised components for ease of commissioning into any charging site</p>	 <p>Plug & Play</p> <p>Preconfigured Gateway automatically links up with the default power meter</p>	 <p>Built-In Router</p> <p>Integrated LTE Router for secure local network access to any connected device</p>
 <p>Industrial Grade</p> <p>Powerful hardware fit-for-purpose in commercial and large scale charging installations</p>	 <p>Network Redundancy</p> <p>Improved network redundancy with two SIM card slots for a second network provider</p>	 <p>Offline Operation</p> <p>Continued load and energy management operation during internet outage</p>



Gateway Connect

Specifications	Description
Manufacturer	IoTMaxx
Model	maxx GW4100
Power Supply	8V ... 30V DC
Maximum Power Consumption	max. 25 Watts
Ambient Conditions	Description
Storage temperature range	-40°C to +85°C
Operating temperature range	-24°C to +70°C
Relative humidity during storage	0% to 95%, non condensing
Interfaces	Description
1x Ethernet	10/100 MBit/s
1x USB	USB 2.0
1x Antenna GSM	SMA socket, impedance 50 Ω
1x Antenna GPS	SMA socket, impedance 50 Ω
2x SIM	Mini-SIM, 1.8 V or 3.3 V
1x SIM chip	Optional
Mechanical Data	Description
Case Type	Plastic case V0
Dimensions (H x W x D)	119 x 27 x 105 mm
Weight	ca. 160g
Assembly	DINrail
IP rating	IP40
Signalling	Description
1x LED Power	Power Supply
1x LED mobile communication	Mobile communication connection status
2x LED Ethernet	ACT, LINK

Scope of Delivery

- Gateway Connect
- Antenna
- Power Supply
- Power Meter
- Transformers

Power Supply

The power supply by MEAN WELL for Gateway Connect is included in the scope of delivery. The power supply comes with protections from short circuit, overload and over voltage, cooling by free air convection, and gets installed on DIN rail next to Gateway Connect.



MEAN WELL
MDR-60-24

Technical Data

Specifications	Description
Manufacturer	MEAN WELL
Outputs	1
HS Code	85044010
Input Voltage Nominal	100...240 VAC
Rated Power	60 W
Input Voltage Min.	85 V
Input Voltage Max.	264 V
Product Number	MDR-60-24

Mechanical Data	Description
Dimensions (HxWxD)	90 x 40 x 100 mm
Weight	330 g
Mounting form	DIN Rail (TS-35/7.5 or 15)
Technical particularity	-10 C / +70 C

Additional information available at https://media.distrelec.com/Web/Downloads/_t/ds/MDR-60-12_eng_tds.pdf

Antenna

The powerful GSM antenna ensures a strong signal to the site via relevant radio networks. The antenna can be easily wall mounted and is certified for indoor and outdoor use. The scope of delivery includes a low-loss cable of 5 Meter length for sufficient choice of installation.



IoTmaxx
GSM Antenna

Technical Data

Specifications	Description
Manufacturer	IoTmaxx
Model	2G/3G/4G - GSM Dual-Band, UMTS, LTE, WLAN
Part Number	810002

Radio Networks	Frequency
LTE 800 (4G)	760-862 MHz
GSM 900 (2G)	890-960 MHz
GSM 1800 UMTS (3G)	1710-2170 MHz
Wifi	2400-2485 MHz
LTE 2600 (4G)	2500-2690 MHz
VSWR	≤ 2.0 : 1
Gain	≈ 2dbi
Impedance	50 Ω
Polarization	Linear, vertical
UV Resistance	exists

Mechanical Data	Description
Dimensions (ØxH)	ca. 25mm x 193mm
Connection cable	LowLoss
Variants SMA	GS-ANT-18-200-5M, 5 m SMA (m)
RoHS compliant	

Power Meter

The power meter is a multi functional measuring device for all loads that need to be considered in the optimisation on site. In combination with the supplied Rogowski Coils the meter performs power measurement at electrical substations, individual circuits or renewable energy sources. Upon connection to a local data network with Gateway Connect, it performs a digital handshake with the Gateway for fully automated connection.



Phoenix Contact
EMPro 371

Technical Data

Specifications	Description
Manufacturer	Phoenix Contact
GTIN	GTIN4055626498348
HS Code	90303100
Supply voltage range	100...240 VAC
Input voltage signal	24V DC
Product type	EEM-MNB371
Product Number	2907955
Mechanical Data	Description
Dimensions (HxWxD)	90 x 90 x 71,7 mm
Weight (incl. packaging)	392g
Mounting form	DIN Rail
Communication	Modbus/TCP
Current Transformers	Rogowski transformers

Additional information available at <https://www.phoenixcontact.com/en-pc/products/measuring-instrument-eem-mb371-2907955>

Current Transformer

To measure busbars and power lines, the standard is a super easy to install 50 mm long set of Rogowski Coils. These current transformers are used for AC current measurement in a wide variety of measurement settings. A huge benefit, especially at sites with electrical operations where shut downs are difficult to schedule, the Rogowski coils offer an installation that does not require power to be turned off.



Phoenix Contact
Rogowski Coil

Technical Data

Specifications	Description
Manufacturer	Phoenix Contact
GTIN	GTIN 4046356898188
HS Code	90309000
Product Number	2904891
Product type	Rogowski PACT RCP-D140
Mechanical Data	Description
Dimensions (Diameter x Length)	140mm x 3m
Weight (incl. packaging)	170g
Primary rated current	1000 A AC
Secondary rated current	Compatible with EEM MB371

Additional information available at <https://www.phoenixcontact.com/da-dk/produkter/rogowski-spole-pact-rcp-d140-2904891>

FEATURE	CLOUD	GATEWAY
Dashboard	✓	✓
Live Monitoring	✓	✓
Historic Data	✓	✓
Notifications	✓	✓
Utilisation Reporting	✓	✓
Site Management	✓	✓
User Management	✓	✓
Meter Configuration	✓	✓
Adaptive Charging	✓	✓
VIP Charging	✓	✓
Multi-Level Clustering	✓	✓
Peak Shaving	✓	✓
Building Integration	—	✓
Solar Charging	—	✓
Scheduling	✓	✓
Tariff-Based Charging	✓	✓
DNO Control	—	✓
Battery Control	—	✓

Our Manifesto

Leading the charge in the electric revolution, our mission is to seamlessly integrate sustainable mobility across diverse landscapes. We innovate in software to empower the EV charging ecosystem, ensuring electric vehicles connect effortlessly with the grid. Our commitment to sustainability drives us to push technological boundaries for more efficient EV charging and grid integration.

Our platform is a cornerstone for Charge Point Operators and Charging Solution Providers, enabling effective energy management, cost savings, and new revenue opportunities. United by innovation, sustainability, and collaboration, we're not just building infrastructure; we're crafting the future. Together, we're advancing towards a greener, more connected world, one charge at a time, embracing a sustainable future for all.

Contact

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