# Waymeter Pro

Datasheet EU

## Unlock the full power to charge your EVs

Enel X Way Waymeter™ Pro Pro Kit is a smart metering solution, powered by Carlo Gavazzi, that can monitor building load (C&I grade), available in different configurations, depending on site electrical specifications, desired connectivity and installation requirements.

A Enel X Way Waymeter™ Pro kit is required to activate Load Optimization Pro, the dynamic load management service from Enel X Way. Load Optimization Pro allows to manage in a more effective way the site demand, allocating to the charging process all the remaining demand in excess over the other building loads.

## Key Features

### Compatibility

Compatible with the main grid configurations in Europe and US

### Flexible

Fits with the majority of installation scenarios

### Connectivity

Available with different cloud connectivity option

### Remote Monitored

24/7 remotely monitored, to assure best service reliability

## Kit Composition

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| **Gateway** | **Power Supply** | **Cellular Kit (OPTIONAL)** | **Wi-Fi Kit (OPTIONAL)** | **Meter (different models available)** | **Current Sensors (CT or Rogowski, only for EM210 Meter model)** |

## Specifications

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| **Gateway** | | › Data logger to send real time meter data to the cloud<br>› Ethernet connectivity<br>› Power Supply: 15-28 V DC<br>› Operative Temperature: -20 to 50 °C<br>› Protection degree: IP40 (front), IP20 (screws terminals)<br>› 2 x RS485 port<br>› Mounting: DIN rail (2 modules) |
| **Power Supply** | | › Input: 100 ~ 240 V AC<br>› Output: 21.6 V ~ 28 V DC<br>› Operative Temperature: -30 to 70 °C<br>› Protection degree: IP20<br>› Mounting: DIN rail (3 modules) |
| **Cellular Kit** (connectivity included) | Modem adapter | › Adapter to use USB modem<br>› Power Supply: 12-28 V DC<br>› Operative Temperature: -25 to 65 °C<br>› Protection degree: IP40 (front), IP20 (screws terminals)<br>› Mounting: DIN rail (2 modules) – must be installed and connected to the left side of the gateway (special connector) |
| | LTE Modem | › Frequencies:<br>  › 4G (LTE-FDD): B1, B3, B7, B8, B20, B28A<br>  › 3G: B1, B8<br>  › 2G: B3, B8<br>› Self powered via USB connection (to the modem adapter<br>› Operating Temperature: -40 to 75 °C<br>› Protection degree: IP30<br>› Includes internal and external antennas<br>› Mounting: din mountable via included adapter (needs 5 DIN space) |
| | Enel X Way SIM | › Enel X Way MVNO with unlimited traffic for Waymeter Pro Kit |
| **Wi-Fi Kit** | | › Wireless Mode: 802.11b/g/n/ac<br>› Ethernet connectivity to the gateway<br>› Power Supply: 9-30 V DC (via 4 pins DC connector). Power supply included<br>› Operating Temperature: -40 to 75 °C<br>› Protection degree: IP30<br>› Includes internal antenna |
| **Meters** | EM111 | › For single phase application<br>› Measurement via 333mV sensors (CTs)<br>› Voltage Range: 230V L-N<br>› Operative Temperature: -25 to 65 °C<br>› Protection degree: IP51 (front), IP20 (screws terminals)<br>› Connectivity: Modbus RS485<br>› Mounting: DIN rail (1 module) |

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| **Meters** | EM340 | › For small three phases application<br>› Direct insertion up to 65 Amps per phase<br>› Compatible with TT, TN, IT grids<br>› Voltage Range: 120 to 230 V L-N/208 to 400 V L-L<br>› Cable cross area section: 2,5 to 16 mm2<br>› Operative Temperature: -25 to 65 °C<br>› Protection degree: IP51 (front), IP20 (screws terminals)<br>› Connectivity: Modbus RS485<br>› Mounting: DIN rail (3 modules) |
| | EM210 | › For all three phases application<br>› Measurement via 333mV sensors (CTs or Rogowski coils)<br>› Compatible with TT, TN, IT grids<br>› Voltage Range:<br>  › MV5 model: 160 to 240 V L-N/277 to 415 V L-L<br>  › MV6 model: 57.7 to 133 V L-N/100 to 230 V L-L<br>› Operative Temperature: -25 to 55 °C<br>› Protection degree: IP40 (front), IP20 (screws terminals)<br>› Connectivity: Modbus RS485<br>› Mounting:<br>  › DIN rail (4 modules)<br>  › Panel: 72x72 or 96x96 with adapter (sold separately) |
| **Sensor Options** | CTV | › Split core current sensor, for cable mounting only<br>› Output: 333mV<br>Primary current:<br>  › 100 Amps model. Max cable diameter: 21 mm<br>  › 400 Amps model. Max cable diameter: 36 mm<br>› Secondary wires: 3x24 AWG (0,3 mm²)<br>› Operative Temperature: -40 to 65 °C<br>› Protection degree: IP20 |
| | Rogowski | › Rogowski flexible coils, for both cable and busbar mounting<br>› Output: 333mV<br>› Primary current up to 4000 Amps<br>› Secondary wires: 3x24 AWG (0,3 mm²)<br>› Coil length: 350 mm. External diameter 120 mm<br>› Operative Temperature: -40 to 80 °C<br>› Protection degree: IP67<br>› 3 coils included |