02963 - Connected Energy meter

The device measures the consumption/production of instantaneous electricity and consumption logs with an hourly, daily, monthly and annual resolution. It should be connected to the single-phase line (or to a single line of a three-phase system) using the current probe provided. Only one meter for total consumption (or for a single load) can be installed in a system; in photovoltaic systems, a maximum of two meters can be installed (one for the exchange meter and one of the production meter). It can be used to prevent the 1-way switch in the electricity meter from tripping due to overload, managing the cut-off of up to 4 loads, according to priorities set by the user.



App from the stores onto the tablet/smartphone you

will be using for configuration.

When the device is powered for the first configuration, we recommend you search for any new firmware and perform the update.

You will also need:

Gateway art. 20597-19597-16497-14597
View App

CONFIGURATION IN 🚯 Bluetooth

- 1. Create your Installer account on MyVimar (on-line).
- 2. Wire all the devices in the system (2-way switches, relays, thermostats, gateway, etc.).
- 3. Start the View Wireless App and log in with the credentials you just created.
- 4. Create the system and the environments.
- Associate all the devices with the environments, except for the gateway (which should be associated last).
- To associate the Energy meter:
- Select "Add" (), choose the environment to place it and give it a name
- Select : scitizate the Bluetooth connection on your tablet/smartphone and approach the thermostat
- Press the CONF push button and choose the type of metering to perform.
- For every device, set the function, the parameters and any accessory devices (wired or radio control and related function).
- Transfer the configuration of the devices to the gateway and connect it to the Wi-Fi network.
 Transfer the system to the Administrator user (who must have created his/her profile on
- MyVimar).

For full details, see the View Wireless App manual that can be downloaded from the www. vimar.com website.

RESET PROCEDURE

The reset restores the factory settings. Within the first 5 minutes of powering the device, press CONF for 30 s.

INSTALLATION RULES.

- Installation and configuration must be carried out by qualified persons in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.
- The device must be protected by an easily accessible automatic 1-way switch.
- This device is compliant with the reference standard, in terms of electrical safety, when it is installed in the related control unit.
- If the device is used for purposes other than those specified by the manufacturer, the protection provided may be compromised.
- Observe the maximum current and voltage values given for the device.
- The power supply circuit must be protected against overloads by installing a device, fuse or automatic 1-way switch, with a rated current not exceeding 6 A.
- Installation must be carried out with the system switched off A

CHARACTERISTICS.

- Rated supply voltage: 100-240 V~, 50/60 Hz.
- Absorption: 6 mA at 100 V~, 4 mA at 240 V~ (6-4 mA).
- Detectable power: from 25 W to 10 kW.
- Inputs for current sensors (sensor supplied).
- Dissipated power: 0.55 W.
- RF transmission power: < 100mW (20dBm).
- Frequency range: 2400-2483.5 MHz.
- Terminals:
- 2 terminals (L and N) for line and neutral;
- connector for current probe.
- Front CONF push button for configuration/reset.Blue LED that indicates the configuration status.
- Operating temperature: $-10 \div +40$ °C (for indoors).
- Variation in supply voltage not above ±10 %
- Protection degree: IP20.

- Overvoltage category: III
- Measuring category: CAT III
- Altitude: up to 2000 m
- Degree of pollution: 2Relative humidity: 80% 31°C 50% 40°C
- 1 module measuring 17.5 mm.
- Configuration via View Wireless App for Bluetooth technology system.
- Controllable via View App.

N.B.: From fw version 1.7.0, the device works as a repeater node for battery-operated devices (for instance art. 03980).

OPERATION.

The device only operates in Bluetooth technology mode and makes it possible to:

- Control single-phase systems (with consumption and/or production)
- \bullet Monitor the instantaneous power produced and consumed (in kW with values of between 25 W and 10 kW).
- Monitor the energy produced and consumed in kWh.
- Via the gateway 20597-19597-16497-14597 the data detected are sent to the View App which displays the powers produced, consumed and drawn with the respective graphs. In the View App, the energy produced, consumed and drawn are displayed with the following resolutions:
- Hourly for the last 7 days (G),
- Daily for the last month (S),
- Monthly for the last 12 months (M),
- Annually for the last 10 years (A)
- Manage up to 4 loads via the same number of relay actuators (art. 20593, 19593, 16953, 14593, 03981). Each load controlled must be assigned a priority, which determines the cut-off order by the device itself. The user may disable the automatic control by forcing the loads.

Settings.

- The View Wireless App can be used to set the following parameters:
- Type of meter: consumption, production, exchange.
- Measurement transmission mode: upon variation (with settable threshold), timed (with settable interval), timed upon variation (with settable threshold and interval).

The View App can be used to set:

- The maximum power draw threshold (depending on the contract power on the line).
- Warning threshold (which must be less than the maximum power draw threshold). See fig. THRESHOLD OPERATION for details.

REGULATORY COMPLIANCE.

RED Directive. RoHS directive.

Standards EN 61010-1, EN 61010-2-030, EN 61000-6-1, EN 61000-6-3, EN 301 489-17, EN 300 328, EN 62479, EN 50581.

Vimar SpA declares that the radio equipment complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is on the product sheet available on the following website: www.vimar.com

REACH (EU) Regulation no. 1907/2006 - Art.33. The product may contain traces of lead.



WEEE - User information The crossed bin symbol on the appliance or on its packaging indicates that the product at the end of its life must be collected separately from other waste. The user must therefore hand the equipment at the end of its life cycle over to the appropriate municipal centres for the differentiated collection of electrical and electronic waste. As an alternative to independent management, you can deliver the equipment you want to dispose of free of charge to the distributor when purchasing a new appliance of an equivalent type. You can also deliver electronic products to be disposed of that are smaller than 25 cm for free, with no obligation to purchase, to electronics distributors with a sales area of at least 400 m². Proper sorted waste collection for subsequent recycling, processing and environmentally conscious disposal of the old equipment helps to prevent any possible negative impact on the environment and human health while promoting the practice of reusing and/ or recycling materials used in manufacture.





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