

Description

The SCS device measures the currents and voltages of separate lines (up to 3) by connecting a maximum of three toroids in the appropriate inputs (a 3523 toroid as standard).

The meter processes and stores the following variables:

- instantaneous power in W;
- total energy stored in Wh;

The device has an internal memory that allows to store:

- cumulative energy on an hourly basis for the last 12 months;
- cumulative energy on a daily basis for the last 2 years;
- cumulative energy on a monthly basis for the last 12 years.

In order for the device to store consumption information, there must be a device in the system capable of providing current date and time information (e.g. touch screen or server). In the absence of this information, the meter does not save any data but continues to calculate the values of the instantaneous variables (power).

The size of the device is 1 DIN module, with sockets for 6 configurators: A1, A2, A3-Ta, A3-Tb, A3-Tc, T↑.

NOTE: The Energy Meter function is available and supported only by Classe 300EOS, MyHOME F460 and F461 servers.

In case of existing installations with the MHS1 server, it is possible to guarantee the system upgrade and functional extension through the backup & restore function directly from Home + Project, without having to reconfigure the system from scratch.

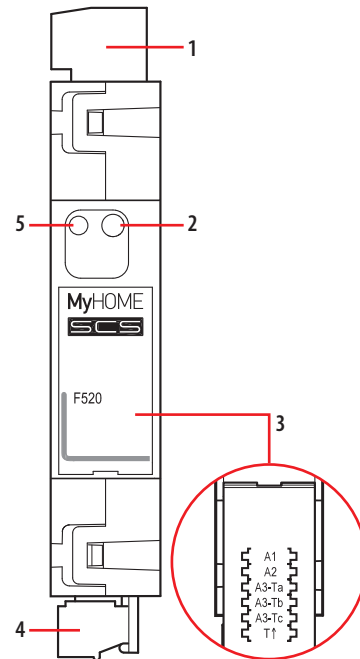
Technical data

Primary input / Voltage:	110 – 240 Vac
Operating frequency:	50 / 60 Hz
Operating power supply with SCS BUS:	18 – 27 Vdc
Absorption:	35 mA max
Operating temperature:	5 – 40 °C
Max measured current:	90 A
Rated current:	16 A

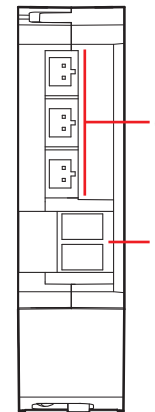
Dimensional data

Size: 1 DIN module.

Front view



Top view



Legend

1. Primary clamp
 2. Multifunction pushbutton
 - Erasing of cumulative energy data: press and hold the button until the orange LED starts flashing.
 - Identification in Home+Project: press briefly when prompted by the App.
 3. Configurator socket
 4. BUS SCS clamp
 5. Notification LED
 6. Toroid connectors
- Nota:** 1 toroid 3523 supplied as standard, the other 2 must be purchased separately.

Configuration

When installed in a MyHOME system, the device can be configured directly from Home + Project following the App flow, making the process much more simple and immediate. For device configuration and installation and for any other information, refer to the App or documentation that can be downloaded from the website:



www.homesystems-legrandgroup.com

Download App



Home + Project

•ANDROID: it requires Android 5.0 or later with access to Google Play



•iOS: it requires an iPhone running iOS 12.0 or later



In addition, however, the following will continue to be guaranteed:

- The PHYSICAL CONFIGURATION, by connecting the configurators to the appropriate sockets (*).
- The configuration using the MyHOME_Suite software, which can be downloaded from the website www.homesystems-legrandgroup.com; this last type of configuration has the advantage of offering many more options when compared with the physical configuration (*).

For the list of modes and the corresponding meanings refer to the indications of this data sheet, and to the "Function description" section of the MyHOME_Suite software.

(*)

The physical configuration of the device is performed by connecting the relevant configurators to the corresponding sockets,

The meter has sockets for 6 configurators:

- A1: hundreds of the address of the three meters
- A2: tens of the address of the three meters
- A3-Ta: units of the address of the meter A
- A3-Tb: units of the address of the meter B
- A3-Tc: units of the address of the meter C
- T↑: direction of the toroid

The maximum number of addresses is 127.

ATTENTION: configurator A3-Ta cannot have zero value, unlike configurators A3-Tb and A3-Tc, which can (if the corresponding input is not managed).

The meter should be installed as close as possible to the power supply, to allow for high BUS voltage and for proper management of backups in the event of a power failure. In case of insufficient supply voltage (less than 21 Vdc), the green LED of the meter flashes to indicate incorrect installation. The device continues to work normally, but correct storage and restoring of data will not be guaranteed in case of BUS failure.

Cumulative data erasing procedure:

- 1 - Press and hold the button; after about 20 seconds, the orange LED flashes quickly; release the button.
- 2 - All cumulative energy data are erased.

1.1 Addressing

	Virtual configuration (MyHOME_Suite)	Physical configuration
Address	0-127	A1, A2, A3Ta = 1-127 A1, A2, A3Tb = 1-127 A1, A2, A3Tc = 1-127

1.2 Direction of the toroid

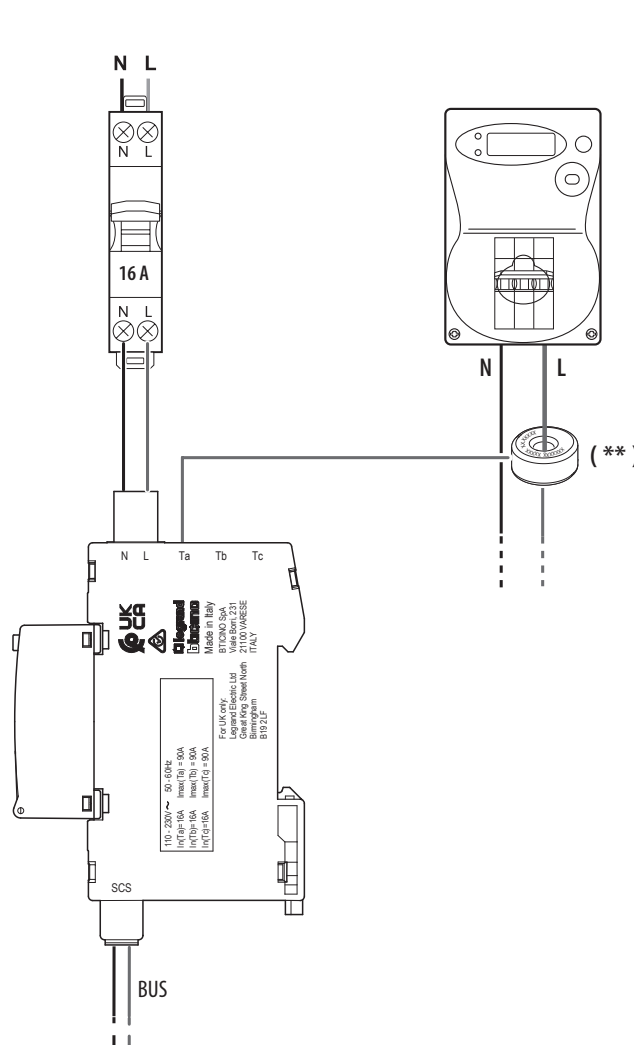
	Virtual configuration (MyHOME_Suite)	Physical configuration
Direction of the toroid	0 – Power and energy measurement independent of the toroid mounting direction 1 – Mono-directional power and energy measurement depending on the toroid mounting direction. Refer to the mounting diagrams for the various applications.	0 1

LED notifications based on the status of the electricity meter:

Device status	LED
Normal operation	GREEN
BUS error (insufficient BUS voltage or voltage drop detected)	GREEN flashing 500 ms/500 ms
Installation error (no primary voltage)	RED flashing 100 ms/900 ms
Configuration error	ORANGE irregular on GREEN
Not configured	ORANGE flashing 128 ms/128 ms on GREEN

Wiring diagrams

Consumption-only measuring scheme

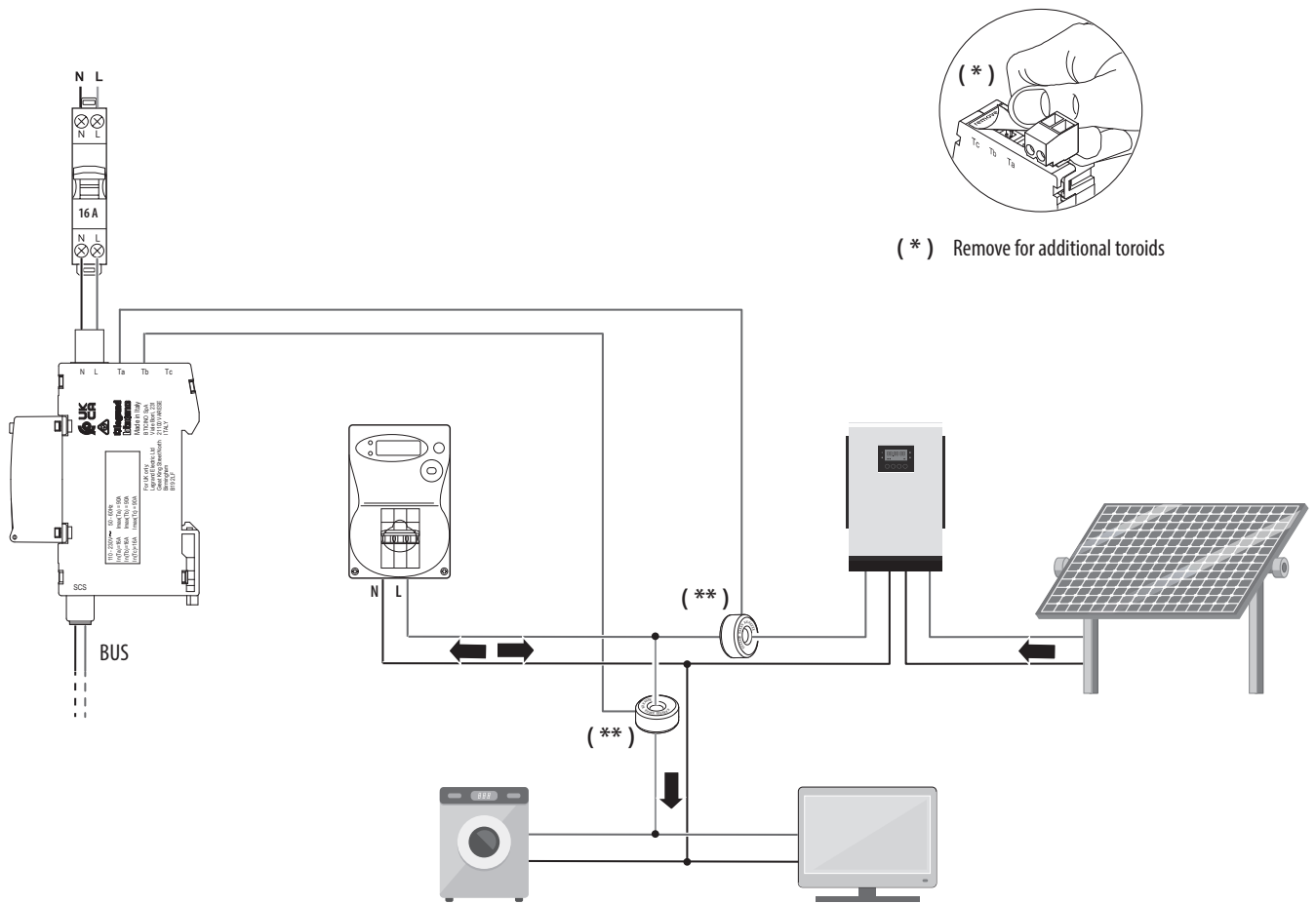


(*) Remove for additional toroids

(**) NOTE: the pad-printed side of the toroid must face the meter

Protect with ≤ 16 A thermal magnetic circuit breaker

Consumption/production mixed measuring scheme



(*) Remove for additional toroids

(**) NOTE: the pad-printed side of the toroid must face the meter (consumption) or the inverter (production).

 Protect with ≤ 16 A thermal magnetic circuit breaker