Every bit counts

Making energy usage visible

SOLUTIONS FOR THE DISPLAY OF ENERGY CONSUMPTION

legrand®

Saving energy has never been this easy

With Legrand SCS control systems it's easy to see how much gas and electricity a residence is consuming. With a few simple components, property owners can view energy usage data in a user-friendly format on a colour touch screen.

10 inch colour touchscreen

3.5 inch colour touchscreen

A complete consumption and energy production check-up

The user can display on the touchscreen not only the consumption inside their home (power and gas), but also the energy and hot water output obtained by solar panels. With a few simple steps, the user can select the type of consumption that needs to be checked, the type of display (instantaneous or graphs), and the period (day, month, year).

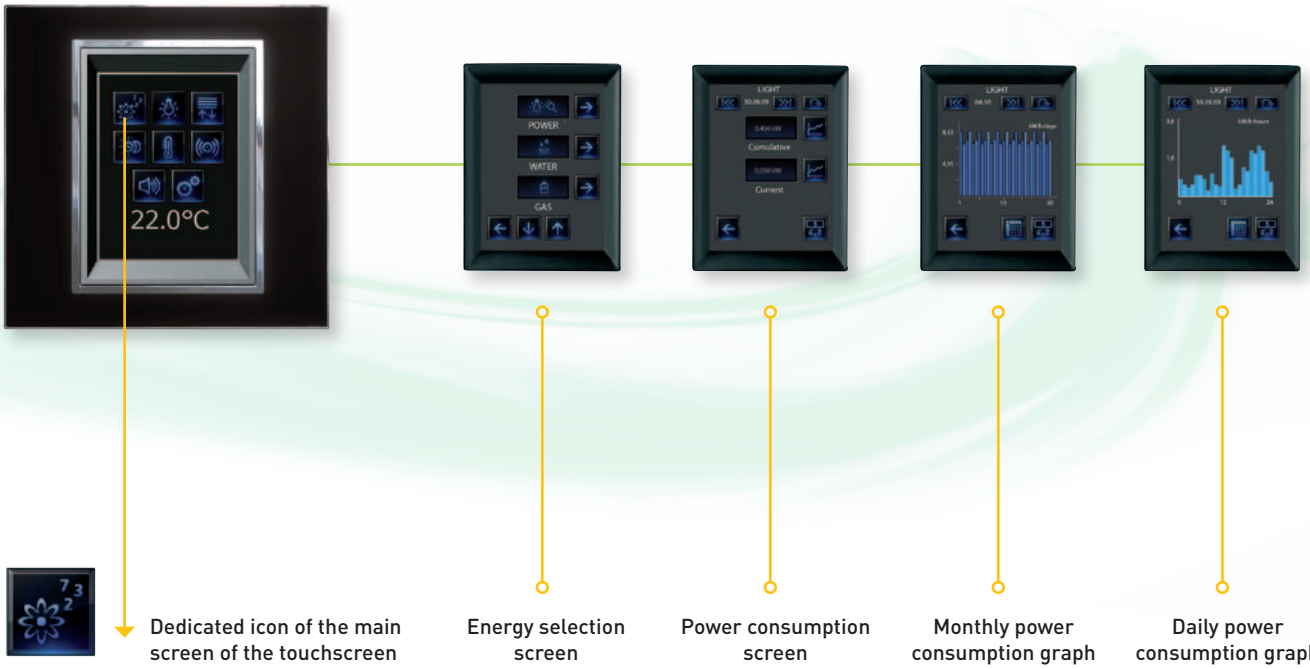
CONSUMPTION DISPLAY

Consumption display - Visualisation

Visibility drives savings

An aware user is one that saves - decreasing their impact on the environment and reducing their costs. Studies have shown that displaying energy consumption results in users changing their routines or correcting faults which result in savings of 10-15%!

UP TO
15%
SAVINGS



Dedicated icon of the main screen of the touchscreen

Energy selection screen

Power consumption screen

Monthly power consumption graph

Daily power consumption graph

The energy data collection devices enable electricity and gas consumption to be displayed on the touchscreen. It is also possible to display the energy produced on site from solar thermal and photovoltaic systems.

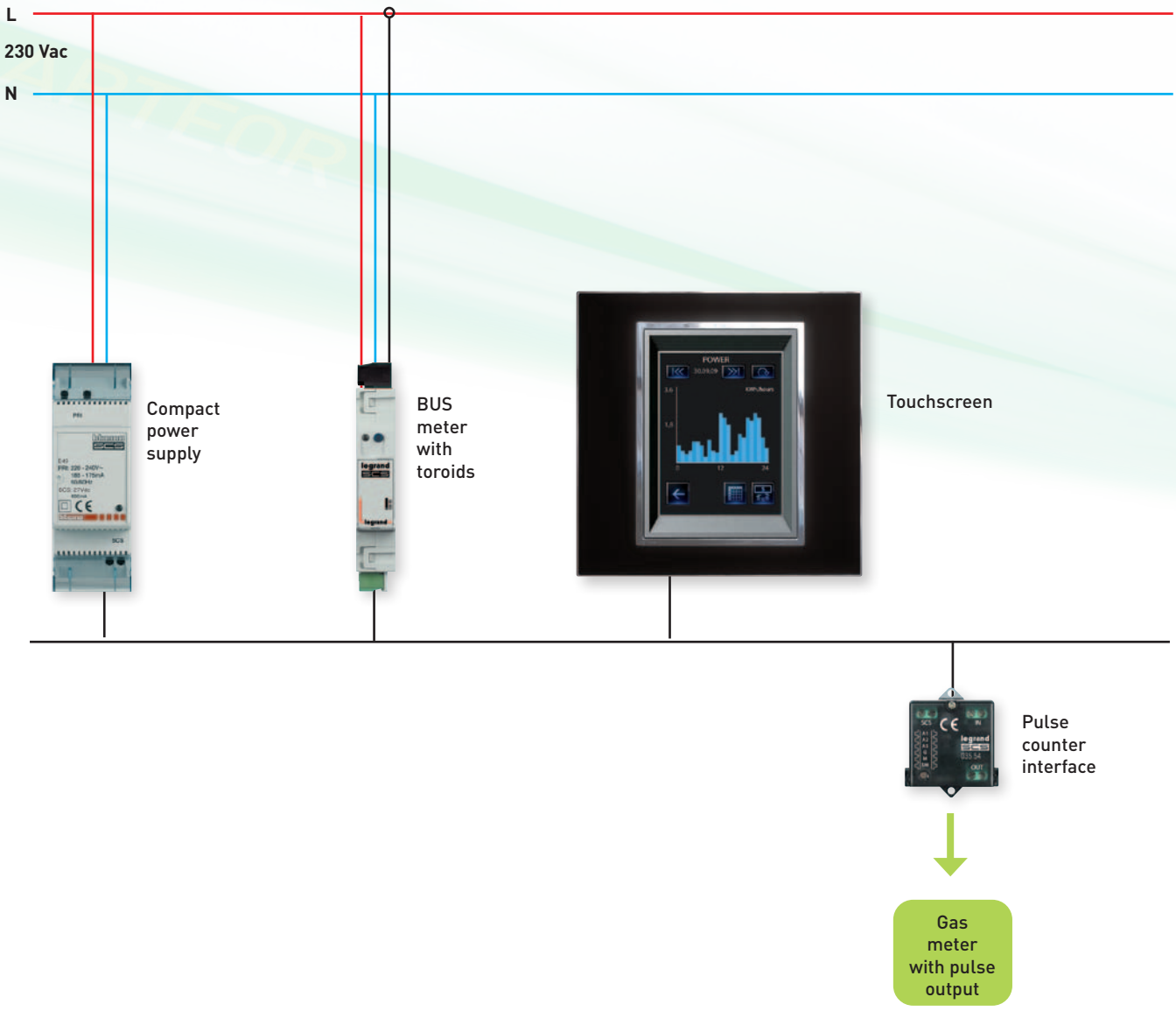
The consumption can be displayed on the touchscreen as instantaneous or cumulative data in graphical or table format to make interpretation easy. By setting tariff values it is possible to display the data in the form of costs.

Consumption display
Displaying consumption...

The energy data collection devices can be integrated directly on the BUS of the automation/ temperature control system, or be part of a dedicated system, as shown on the diagram below. In this case a power supply will be necessary to power the BUS and touchscreen to display consumption levels.

When pulse counter interfaces and toroid power meters are linked to the MYHOME consumption display system it enables display on the touchscreen. This display shows consumption of power and gas as well as heating data.

Using the power meters and the pulse counter interfaces, it is possible, when a photovoltaic or a thermal solar system is installed, to monitor how much power is being generated.



...and the production data

Photovoltaic panel

Thermal solar panel

Inverter

Hot water meter with pulse output

BUS meter with toroids

Pulse counter interface

SCS BUS

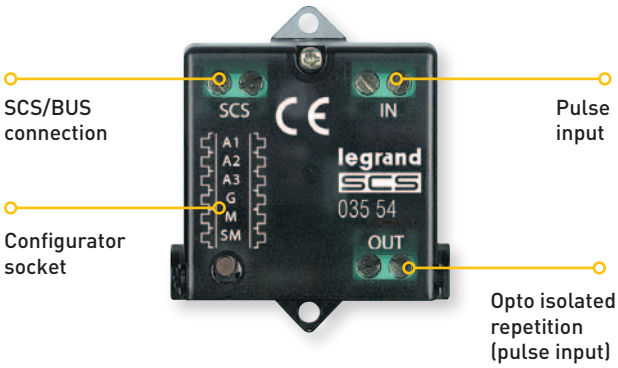
Consumption display
Measurement and display devices

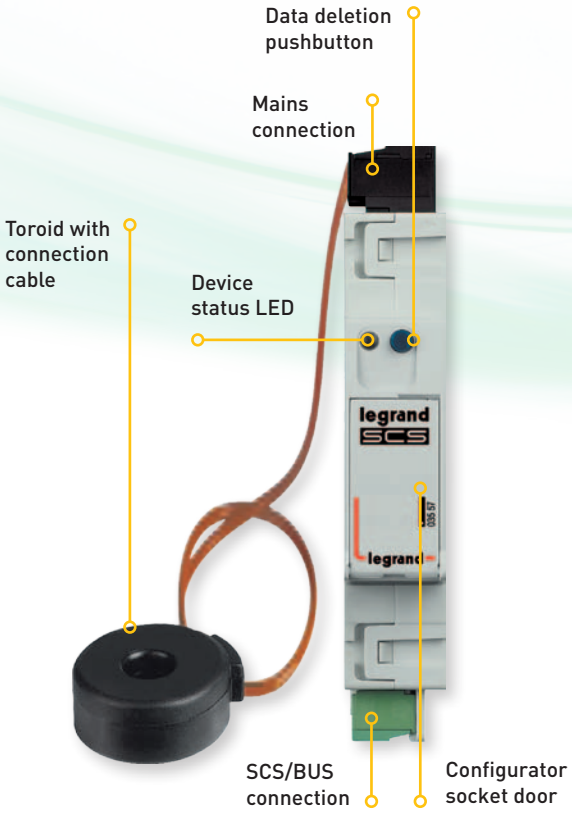
Pulse counter interface 03554

The device detects, counts, and processes the information received from meters with pulse outputs; the data is then made available to the SCS BUS, and displayed on the touchscreens. The processing and accounting functions are:

- Instantaneous consumption (calculated as the average of 2 pulses received during the time unit)
- Hourly, daily and monthly consumption (one year memory)

The device may be installed in flush mounted boxes, behind traditional type devices, or also inside distribution boards, but without taking up any DIN rail space





BUS meter with 3 inputs for toroids 03555

The device measures up to three separate circuits, by connecting up to three toroids to the appropriate inputs. The data is displayed on the touchscreens through the SCS BUS. The processing and accounting functions are:

- Instantaneous consumption of 3 lines maximum
- Cumulative hourly consumption for the last 12 months, daily consumption for the last 2 years and monthly consumption for the last 12 years

The above described functions are also valid to save the data coming from solar thermal and photovoltaic systems. The device is supplied with 1 toroid and corresponding connection cable; it is suitable for installation inside distribution boards and switchboards and requires the space of 1 DIN module.

Consumption display
Measurement and display devices continued...

Touchscreens

On the touchscreen it is possible to display:

- The instantaneous consumption
- The daily and monthly consumption
- The average daily consumption for each month
- The total consumption of the last 12 months
- The power generated by PV panels
- The consumption in several units of measure
- The water heated by thermal solar (hot water meter needed)
- The heat/cool coming from heating/cooling meter

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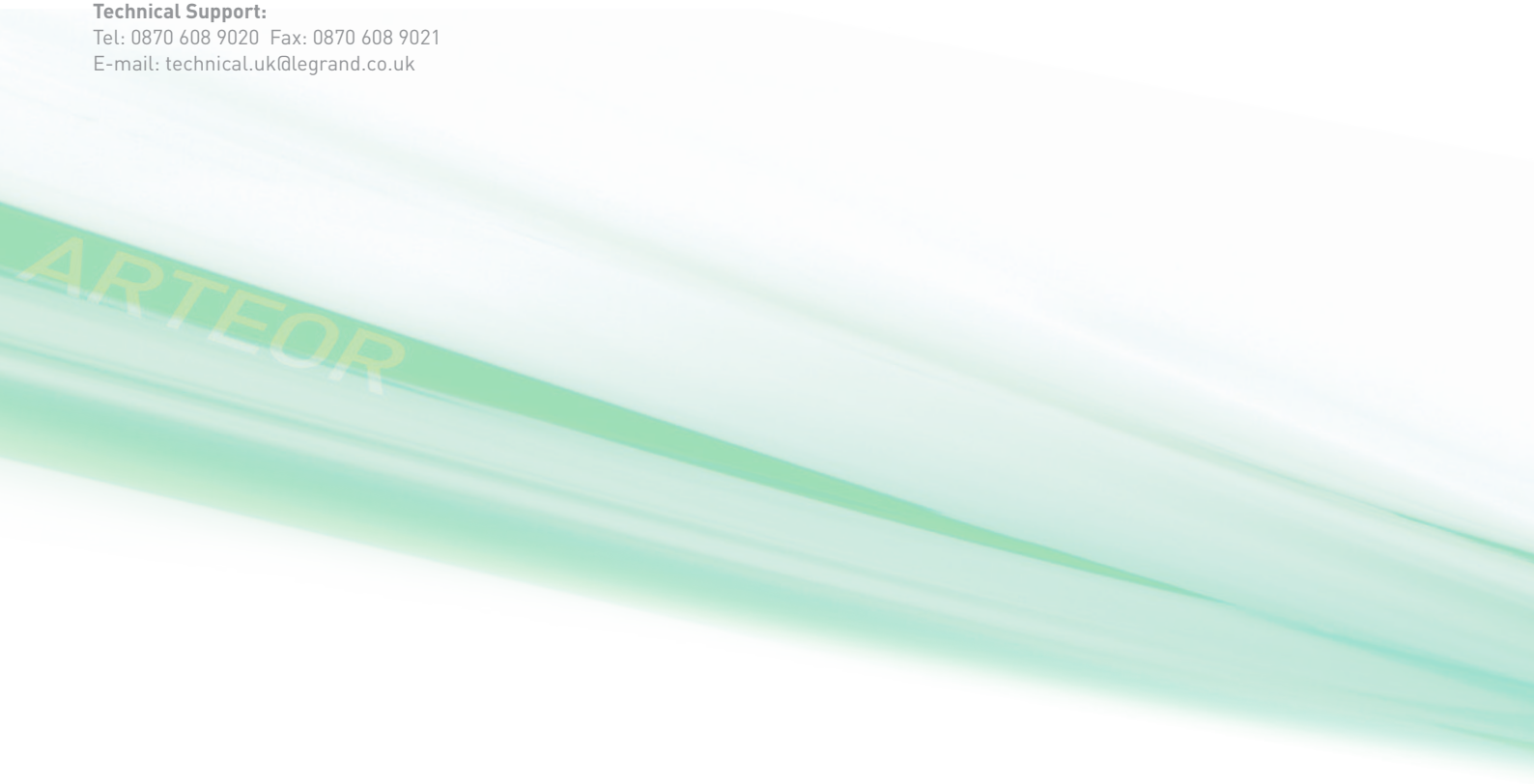

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Arteor energy management 08.2011