

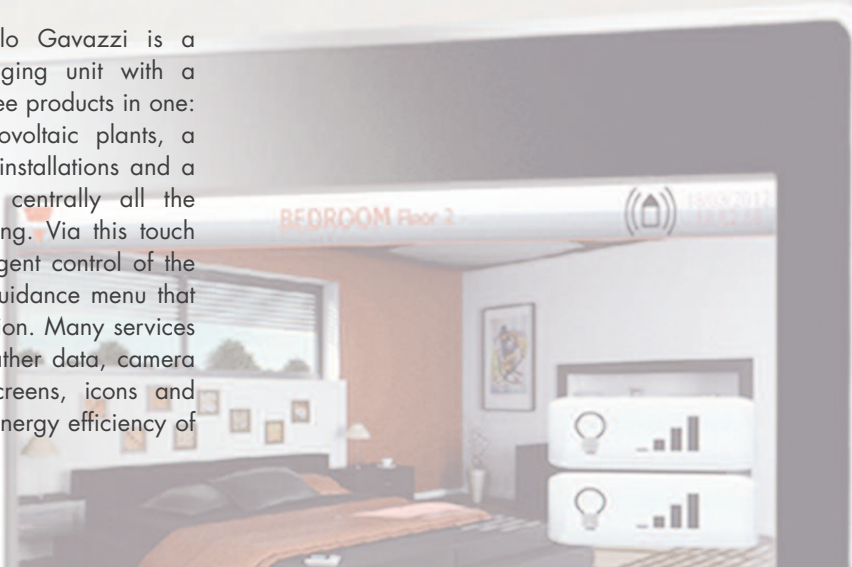
SmartHUB: touch screen display and datalogger

Controls

BTM-Tx

The SmartHUB touch display

The new SmartHUB display by Carlo Gavazzi is a PC-based control, regulation and logging unit with a brilliant capacitive touch screen. It is three products in one: it is a monitor and logger for photovoltaic plants, a manager for energy in building/home installations and a home-automation display to operate centrally all the functionalities for more comfortable living. Via this touch screen, the user can manage an intelligent control of the building/home, thanks to an intuitive guidance menu that allows quick access to the desired function. Many services are also available, such as e-mail, weather data, camera pictures, diagrams, individual start screens, icons and messages to inform the user about the energy efficiency of the installation.



SmartHUB is available with a 4.3" and 7" display:

BTM-T4-24: 4.3"

BTM-T7-24: 7"

It is completely configurable via user friendly software.

- TFT widescreen colour display
- 64K colours
- 2 ethernet ports
- USB host port
- SD card slot
- Multistandard serial port



Enlarge your views!

• Home automation

SmartHUB lets you have full control of your Carlo Gavazzi home automation system: lights, scenario, rollerblinds, alarms, temperatures, ... are all at your fingertips!

SmartHUB can be connected to the Internet, enabling you to access e-mails and the weather forecast or remotely watch over your home. It can also be linked to external monitoring systems, such as surveillance IP cameras, to monitor parts of a building directly from the touch panel. Furthermore, audio/video systems can be connected to control music and entertainment.*

• Energy management

SmartHUB logs all the electrical variables collected from Carlo Gavazzi energy meters (EM21, EM24, EM26, WM30). Instant values are shown in a line chart coupled with icons (e.g. emoticons) in order to let the user see and understand the various consumptions. All the logged data is then shown on a bar graph so that a weekly, monthly or yearly overview can be seen by the home owner. The

various consumptions of electricity, water and gas are expressed according to the entered tariffs, with the opportunity to manage them divided into 4 time bands.

• Monitoring of residential solar plants

Innovative, user-friendly and easy to install, SmartHUB is the perfect system for monitoring and managing domestic photovoltaic plants up to 10 KWp. It allows you to monitor all aspects of the system, such as the amount of power produced, the energy yield, the return on investment (ROI) and the control of CO₂ emissions, storing data for 20 years.

SmartHUB offers a wide range of analysis options (daily, monthly and annual graphs, relative and absolute yields, monetary yields, ...)

SmartHUB sends you an e-mail in case of alarms in the plant.

* Systems that have MODBUS TCP/IP connectivity can be controlled.



A control centre to maximize your comfort at home!

Plug and play solution

SmarthUB is designed to be directly connected to a Carlo Gavazzi home automation system.

The easy-to-use Wizard software automatically reads the configuration file and assists you in creating your user interface with rich object library and templates.



Living well

Just a brief touch to set your favourite scenario, to adjust to the right temperature or simply to give a look at your kids upstairs.

Each action can be done locally on the display or remotely via an Internet connection.



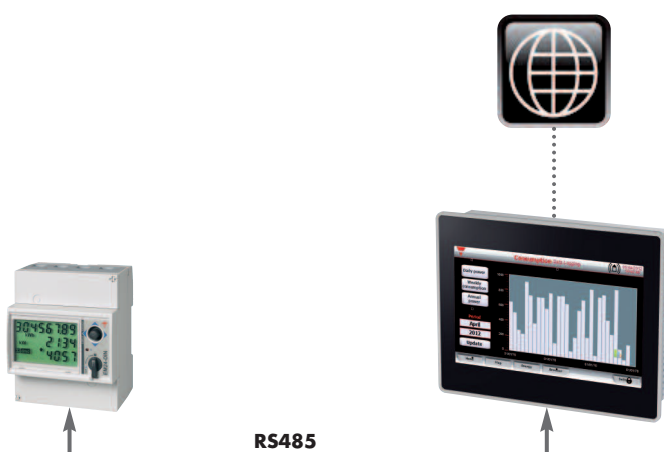
Energy monitoring

Direct connection to energy meters

SmarthUB reads the electrical measures from Carlo Gavazzi energy meters or any other else energy meter with Modbus RTU communication capability.

It shows the data as instantaneous values and/or depicts them in diagrams.

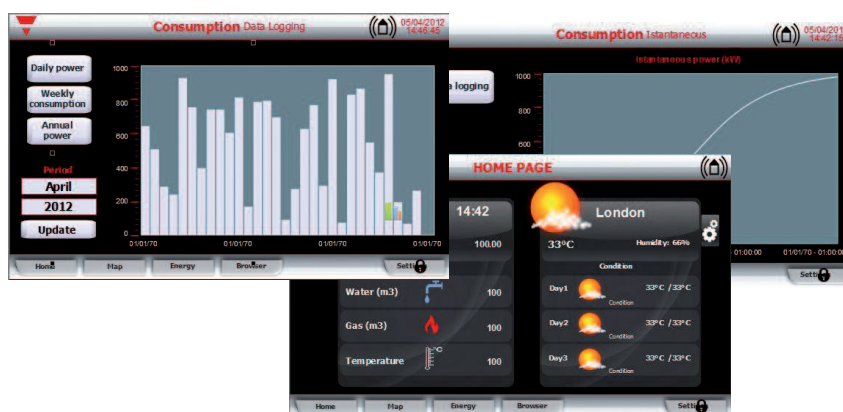
The energy management pages are available as templates that can be easily customized.



Take control of your consumption!

SmartHUB helps you to save energy and money by showing the actual and historical consumption data, advising you if the total energy usage is exceeding a predefined threshold. Furthermore SmartHUB prevents overloads by disconnecting appliances according to your predefined priority list.

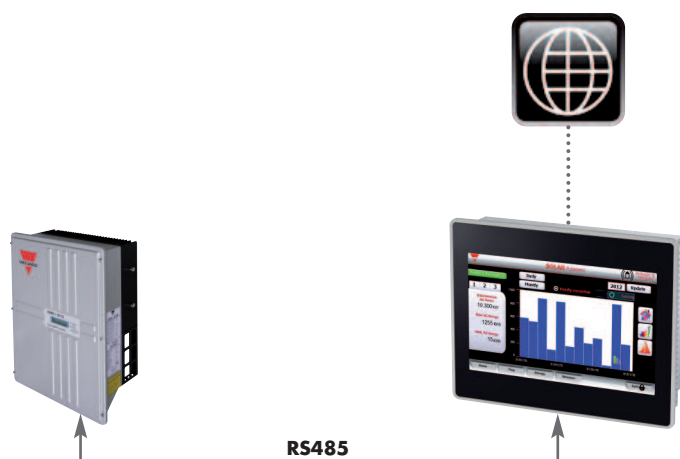
Water and gas consumptions are also shown. All the logged data can be expressed in tariffs with the opportunity to manage them divided into 4 time bands.



Monitoring of residential solar plants

Direct connection to inverters

SmartHUB is compatible with Carlo Gavazzi inverters or any other inverter using Modbus RTU. It displays the performance data of your photovoltaic system at any time in your home, advising you if any anomaly should occur.



A clear representation of your photovoltaic plant

The production of today is shown, together with that of yesterday, to give you a clear indication as to how your plant is working. Daily, monthly and yearly yields are depicted in bargraphs and logged on a downloadable csv file.

The production data is also expressed in terms of monetary yield (incentive and savings) to have a clear understanding of the profitability of the plant.



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