SmartHUB Home Automation Touchscreen and Energy Data Logger Types BTM-T7-24, BTM-T4-24





DTW-17-24

Product Description

SmartHUB is a completely configurable touch display. It is available in two versions. 7" and 4.3" wide, featuring a bright TFT widescreen (16:9) display with LED backlight. By means of the configuration software, the installer can create his own HMI interface or adapt the template downloadable from the Carlo Gavazzi website. define the electrical values he needs to show/log, configure any Modbus RTU device very easily by just reading a csv file, read the smart-house configuration file and link the smart-house variable to images/pushbutton.

Energy monitoring

SmartHUB shows and logs the data collected from our Energy Meter on Modbus

Supply Specifications

RTU or from inverters with Modbus RTU communication capability. It offers a wide range of analysis options: daily, monthly and annual graphs, relative and absolute yields, monetary yields, etc.

Home/Building automation Connected via Modbus TCP/IP to the Carlo Gavazzi smart-house controller, SmartHUB is an elegant interface which can control all the home automation functions such as lights, scenarios, temperature, rollerblinds, alarms,... and can give information about everything that is happening in a house.

* Optional plug-in BTM-KNX provides a gateway between Smart Dupline and KNX/EIB bus.

- High definition 7" and 4.3" colour touchscreen
- Easy setup of graphic pages and functions with the powerful software Wizard
- Remote access
- Activation of internet links through touch buttons
- Alarms management
- Support viewing from IP cameras
- Ready for Modbus TCP/IP
- Gateway KNX/EIB by means of a plug-in module BTM-KNX

Ordering Key

BTM-T7-24

Display _____ Inches _____

Power supply -

Type Selection

Active display area	Resolution	Supply: 24 VDC		
7" diagonal	800 x 480 pixel	BTM-T7-24		
4.3" diagonal	480 x 272 pixel	BTM-T4-24		

Optional Plug-in *

Module type	Application	Module
External plug-in	KNX/EIB	BTM-KNX

Power supply voltage	24 VDC (18 to 30 VDC)	Current consumption	0.7 A at 24 VDC (max.)
BTM-T7-24	24 VDC	-	. ,
BTM-T4-24	24 VDC		
BTM-KNX	By BTM-Tx-24		
Specifications			

Specifications

Operating System		Windows CE 6.0	CPU	ARM, 600 MHz
Display			User Memory	128 MB Flash
Туре		TFT	RAM	256 MB DDR
Resolution Active display area	T7 T4	800 x 480 pixel 480 x 272 pixel	Front Panel Touch screen System LEDs	Analogue resistive 1
	T7 T4	7" diagonal 4.3" diagonal	COM Ports	RS-232, RS-485, RS-422 software configurable
Colours Backlight		64K LED	Ethernet Port	2 10/100 Mbit with integrated switch
Brightness Dimming		150 cd/m2 typ. Yes	USB Port	1 host interface, version 2.0

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Specifications (cont.)

Memory Card	SD card slot	Weight		
Enviromental Conditions			T7	Approx. 1.5 Kg
Operating temperature	0 to +50°C		T4	Approx. 1.0 Kg
Storage temperature	-20 to +70°C	Battery		Replaceable Lithium battery
Operating and storage humidit		Fuse		Automatic
Protection class	non-condensing IP66 (front panel) IP20 (rear)	Approvals		cULus (UL508 Listed Haz. Loc. Class I, Division 2,
Dimensions				Groups A,B,C and D
Faceplate		CE marking		Yes
T7	187 x 147 mm (7.36x5.79")	EMC		Elektromagn. kompatibilitet
T4 Cutout	147 x 107 mm (5.79x4.21")	Emission		EN 61000-6-4
Τ7	176 x 136 mm (6.93x5.35")	Immunity		EN 61000-6-1
T4	136 x 96 mm (5.35x3.78")			for installation in industrial
Mounting depth				environments
T7	47 + 4 mm (1.85+0.16")			
T4	56 + 4 mm (2.40+ 0.16")			

Specifications (BTM-KNX)

Dimensions

Faceplate Mounting depth 65.3x41.2mm (2.57x1.62") 16.6 mm (0.65")

Mode of Operation

Intelligent functions

The SmartHUB touch display can be connected to the smart-house controller via Modbus TCP/IP to manage all home automation functions, to the energy meter (EM21, EM24, EM26, WM30) via Modbus RTU to consumed manage the energy, to the inverters, again via Modbus RTU, to supervise the produced energy of a residential photovoltaic plant.

Wizard software

The Wizard software offers full vector graphic capabilities and plenty of connection options.

The Wizard software supports:

• Full object dynamics: control visibility and transparency, movement, resizing or rotating of any object on screen, also changing properties of basic and complex objects.

TrueType fonts

• Multi-language applications. Easily create and manage your applications in multiple languages to meet global requirements. Languages supported include European and Far Eastern. Wizard tools ease third-party integration and help to reduce development and maintenance costs of the application.

• Data can be displayed in numerical, text, bargraph, analogue gauges and graphic image formats.

• Rich set of state-of-the-art HMI features: data acquisition, alarm handling, calender based with real-time clock scheduler for timed actions (daily and weekly schedulers, exception dates), recipes, users and passwords, e-mail and RSS feeds, rotating menus.

• Remote monitoring and control. Client-Server functionality. Mobile clients supported.

• Off-line and On-line simulation with Wizard.

• Rich gallery of symbols and objects.

Project templates.

Home automation

You can use the SmartHUB to switch lamps on and off,

to dim them, to control scenarios, rollerblinds, alarms, temperatures and all the functions defined in your installation. The system can be connected to the Internet, enabling you to access e-mails and the weather forecast. The panel can also be linked to external monitoring systems, such as surveillance cameras, to monitor parts of a building directly from the touch panel. Furthermore, an audio/video system can be connected to control music and entertainment.

Energy management

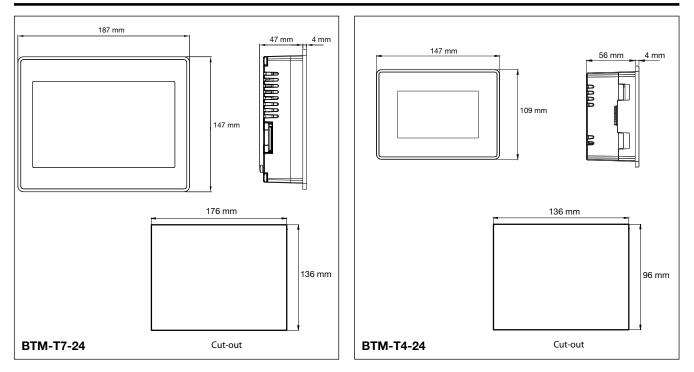
The SmartHUB logs all the electrical variables collected from Carlo Gavazzi energy meters (EM21, EM24, EM26, WM30). Instant values are shown in a line chart coupled with icons (e.g. emoticons) in order to let the user see and understand the various consumptions. All the logged data is then shown on a bar graph so that a weekly, monthly or yearly overview can be seen by the home owner. The various consumptions of electric, water and gas are expressed according to the entered tariffs, with the opportunity to manage them divided into 4 time bands.

Photovoltaic plant

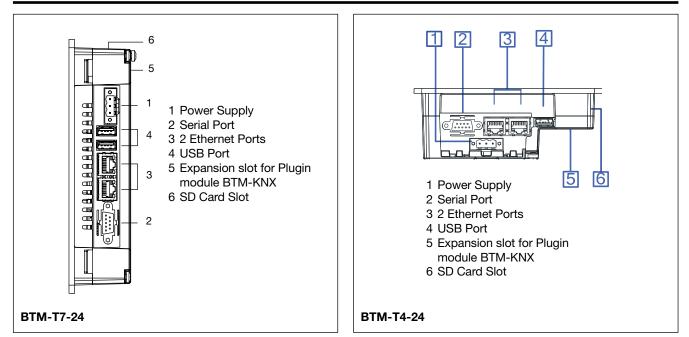
Innovative, user-friendly and easy to install: SmartHUB is the perfect system for monitoring and managing domestic photovoltaic plants up to 10 KWp. It allows you to monitor all aspects of the system, such as the amount of produced power, the energy yield, the return on investment (ROI) and the control of CO₂ emissions, storing data for 20 years. The today production is shown together with the yesterday one to give you a clear indication on how your plant is working. Daily, monthly and yearly yields are depicted in bargraph and logged on downloadable csv file.

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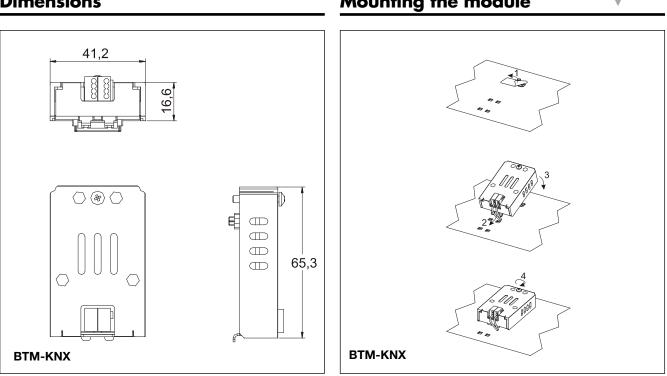
Dimensions



System Overview







Dimensions

Mounting the module