

Habiteo

Home & Building Automation



- Energy efficiency
- Outstanding comfort
- Enhanced safety



$\textbf{HabiTEQ}^{\text{TM}} \textbf{ - Home \& Building Automation}$

2 8 10 12	Introduction Advantages Home solution Building solution System architecture
14	System topologies
16 20	Automation solutions Pre-wired distribution boards Range of enclosures
24 26 28 30	Automation components Controllers Dimmer modules Input modules Communication interfaces
31 32 33 34 35 36	Order codes System controllers Universal load actuators Input modules Dimmers Communication interfaces System visualization

Smart switches

Numerical index

Range of modular devices

Sensors



37

42

48 49



HabiTEQ™

Development of innovative technology impacts our daily lives offering a wealth of new possibilities which includes our very own home or working space.

This is particularly true for the electrical installation – the heart of every building. This area holds great potential for designing properties with greater flexibility, energy saving and outstanding comfort without compromising lifestyle.

The **HabiTEQ**™ automation solutions and components are tailored for your building - offering a platform of opportunities to achieve a versatile system satisfying the most demanding customers needs.

HabiTEQ[™] components

Offer a single and simple integrated system instead of separate control solutions...

In comparison with classic electrical installations, the HabiTEQ $^{\text{TM}}$ intelligent building control system offers noticeable advantages.

All the different functional subsystems within your living space are seamlessly integrated via a 2-wire BUS to a single communicating system, controlled by a powerful central controller. This enables the optimal, energy efficient interaction of the subsystems, which is almost impossible with conventional technology.

The system allows a large number of interactive functions to be realised, including:

| Lighting control | Heating/ventilation control | Climate control | Shutter control | Safety monitoring | Energy management | Central automation |





HabiTEQ[™] solutions

Intelligent "plug and play" distribution boards, designed for easy installation and time saving.

GE offers two standard pre-equipped and pre-wired distribution boards – one for apartments (Fix-o-Rail 150) an one for houses (QuiXtra 630). These standard solutions are and flexible and adaptable. The installation can be extended with components in- and outside the panel. Inside there is a significant reserve for DIN-rail modules. Outside the system can be extended with HabiTEQ wireless modules. The communication between the two media (wired and wireless) is bi-directional.

Customer benefits

- Significant time saving
- Available on stock
- 100% tested solution
- Easy extension
- Sharp prices





HabiTEQ™ Flexible solution for electrical installati

Seamlessly integrating safety, security, lighting, climate, automation of mechanical loads such as shutters and blinds, and many more! HabiTEQTM provides comfort, control and convenience through multiple stylish user interfaces (touch screen, switches, etc.)





or smart & simple ons!

Easy to install and customize. Using a PC through a choice of serial or ethernet link adds tangible value to installers of commercial buildings and home owners whatever the property: apartments, family homes, villas, etc.

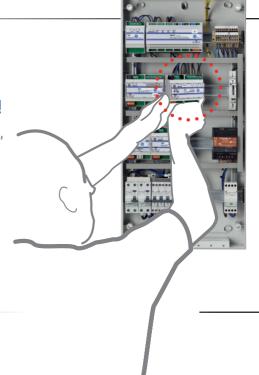
security



Easy to install

Modular building blocks, easily scalable!

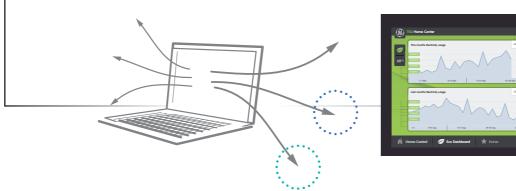
- Fast 2-wire BUS system with no polarity, no restrictions on topology
- Quick and easy system configuration
- Fast and simple installation



Value for money

Track and control energy usage with a simple pulse meter

- Flexible functionality easily enhance and adapt with limited or no additional hardware
- Up to 50% cost saving on system installation & setup(1)



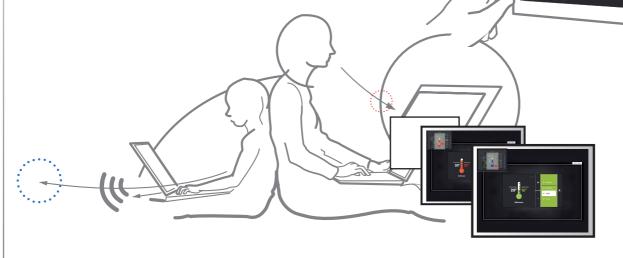
(1) Compared to other popular distributed systems.



Flexibility

Visualize and control through the internet via a PC or mobile phone with no additional hardware⁽¹⁾

- Integrate third party infrared (IR) remote control
- Make any switch intelligent
- Easy to configure
- User friendly



Integration with larger systems through the ethernet⁽²⁾ for buildings



Remote access Multiple clients



Redundancy Manual override on field modules



Open Standards

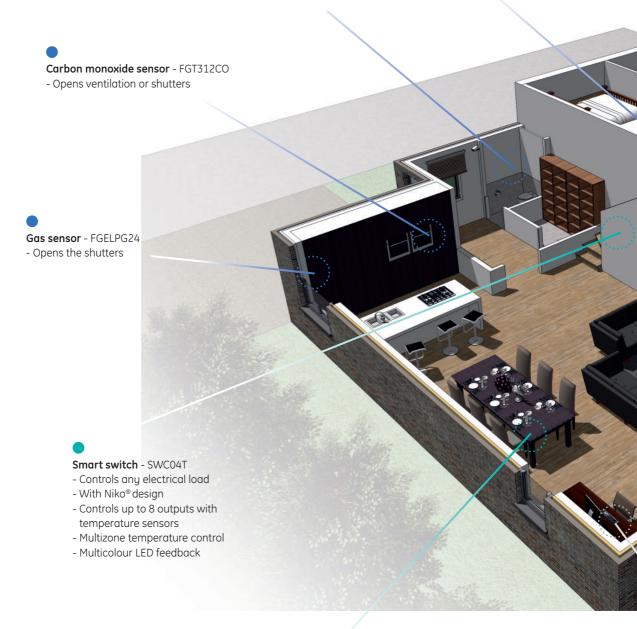
- (1) Controller with ethernet port.
- (2) Using the event handler protocol, supplied on request.

Home solution

Smoke sensor - DP721R Smoke sensor pre-warning Motion sensor - PIR

EV100 (indoor) DI502 (outdoor)

- Sensor with high immunity to false motion
- For automatic lighting and heating

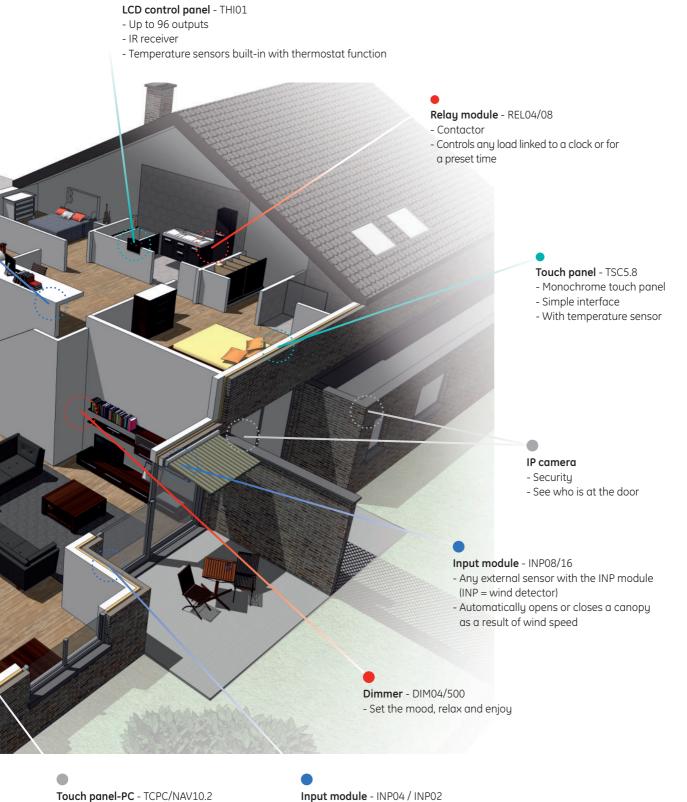


Interface module - SMS01

- Any mobile phone
- Controls any electrical load with text







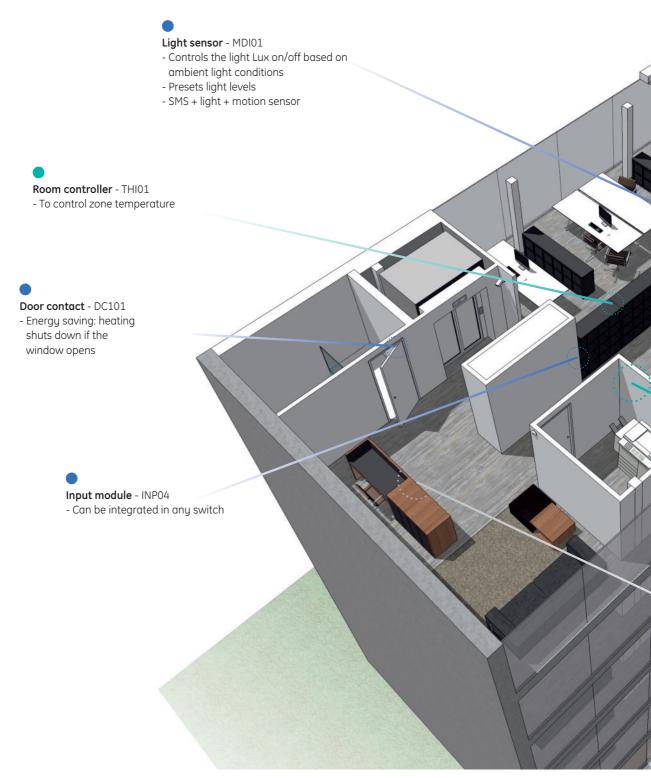
- Can be integrated in any switch

- Central home control with

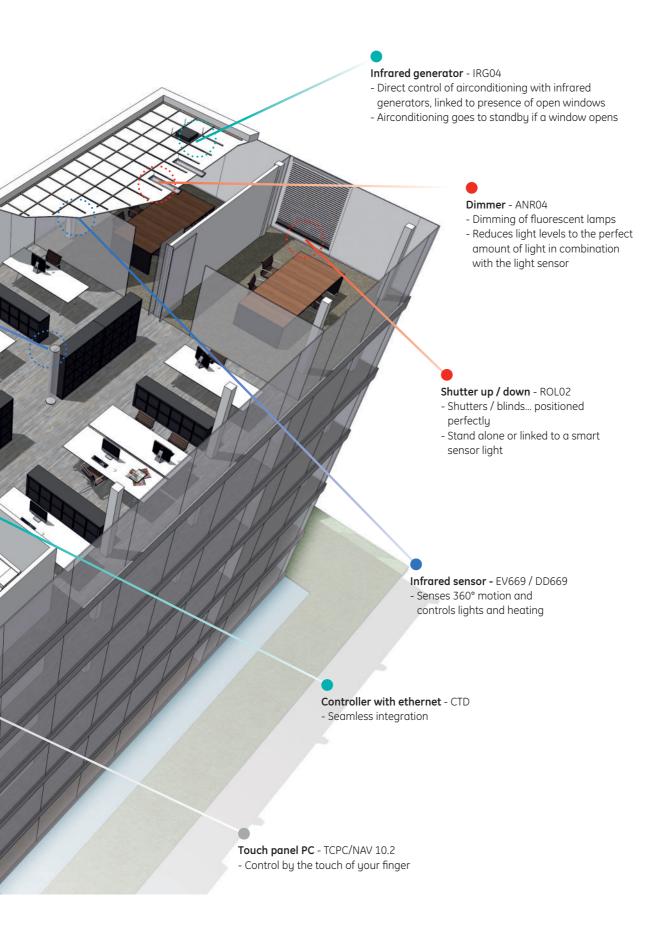
energy visualization



Building solution

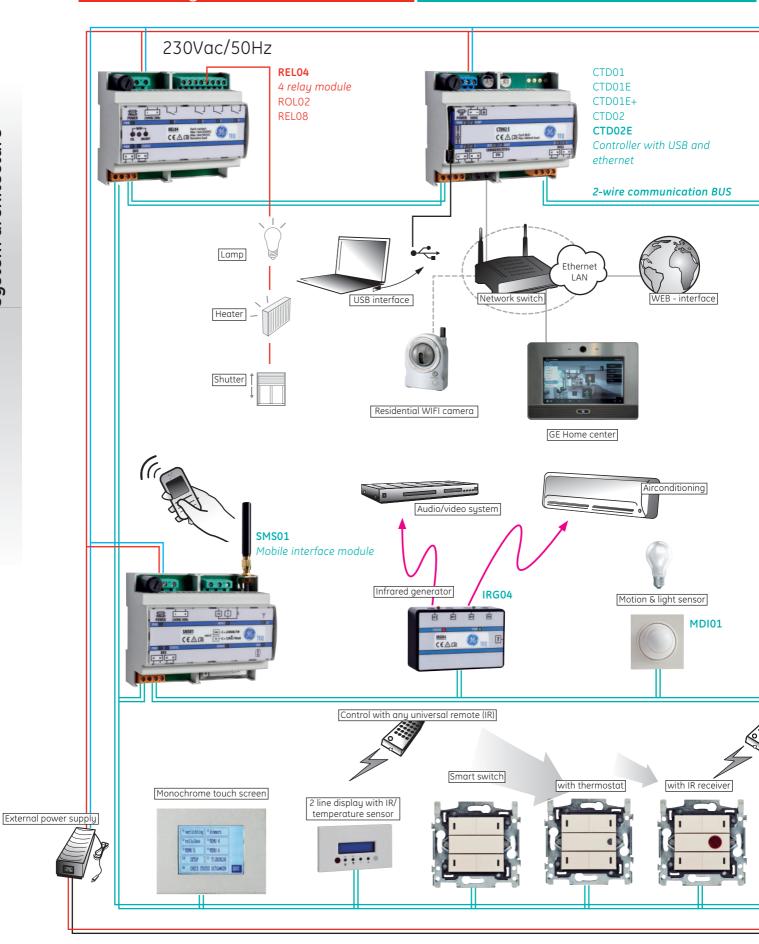






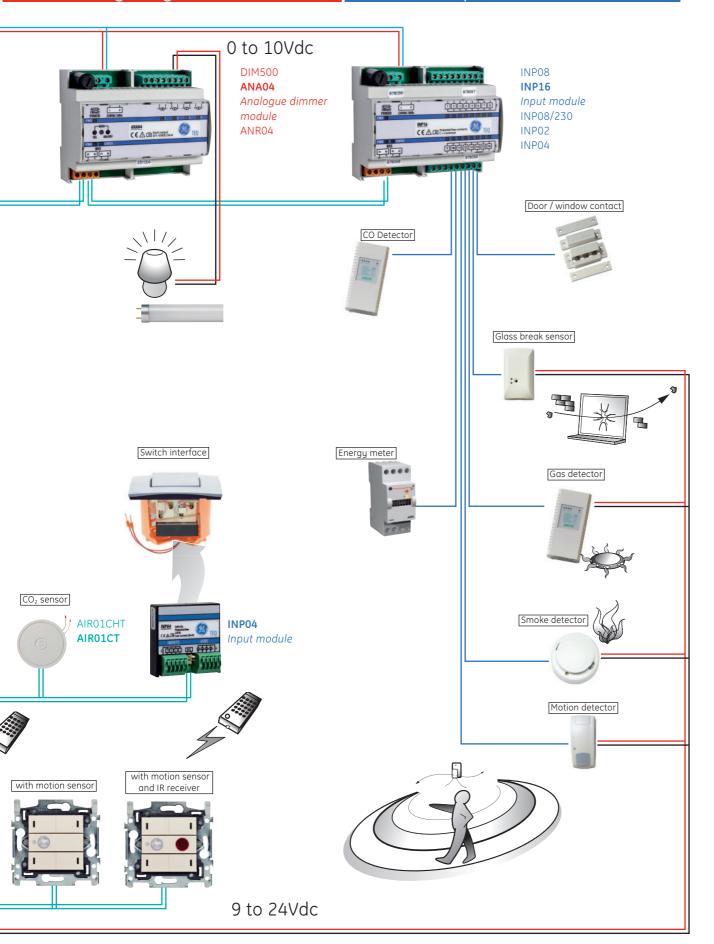
Relays / Load control

Controllers



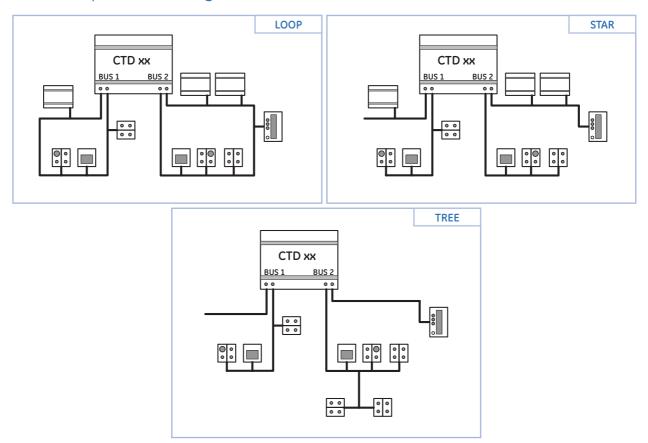
Lighting control

Input modules



System topologies

Flexible BUS topology... star, loop, tree or any combination with no polarity... enables quick and easy installation



System overview

- 2-wire bi-directional BUS communication.
- BUS supplies power to the I/O module and has no polarity
- I/O reaction speed: 400 outlets = 0.3 sec
- Simultaneous communication
- Current based BUS principle = high resistance against external influences
- Cable: shielded twisted pair section 2 x 1.0 mm² Distance max. 200m (open), max. 400 m (closed)

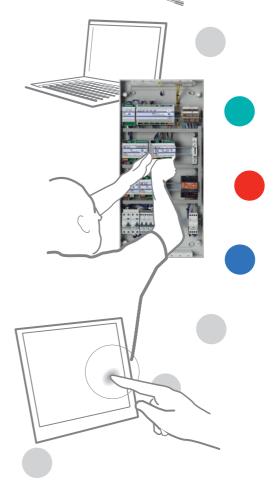


Your home or building automation solution... is just six steps away

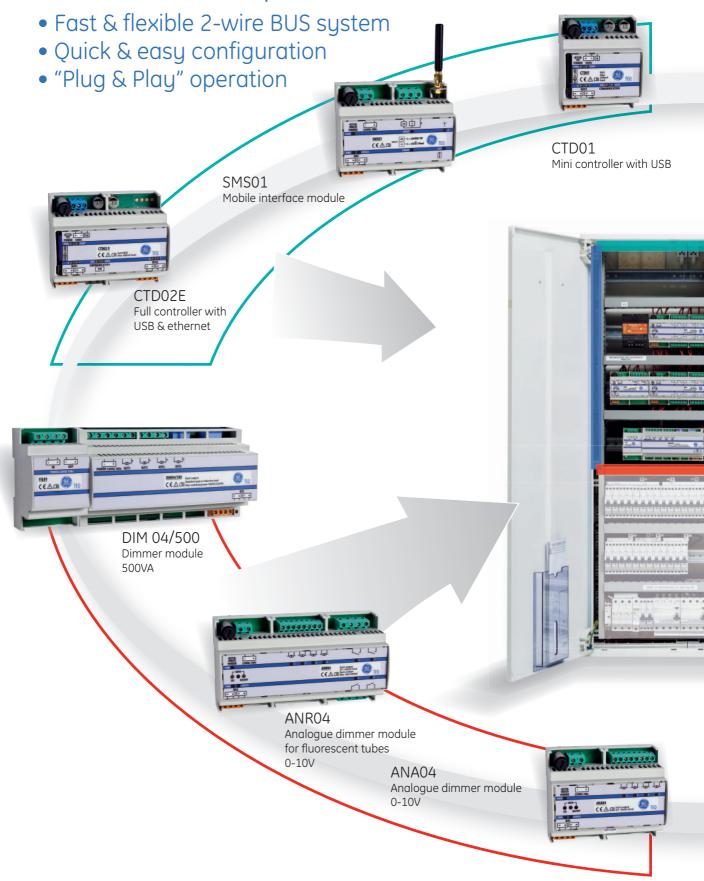
- 1 Enter installation details on floor plan.
- **2** Transfer installation details to the configurator.
- **3** Output of parts list and HabiTEQ[™] distribution board.
- 4 Place the order for your HabiTEQ™ distribution board & other accessories (switches, touchscreen etc..)
- 5 Install & connect
- **6** Configure & startup

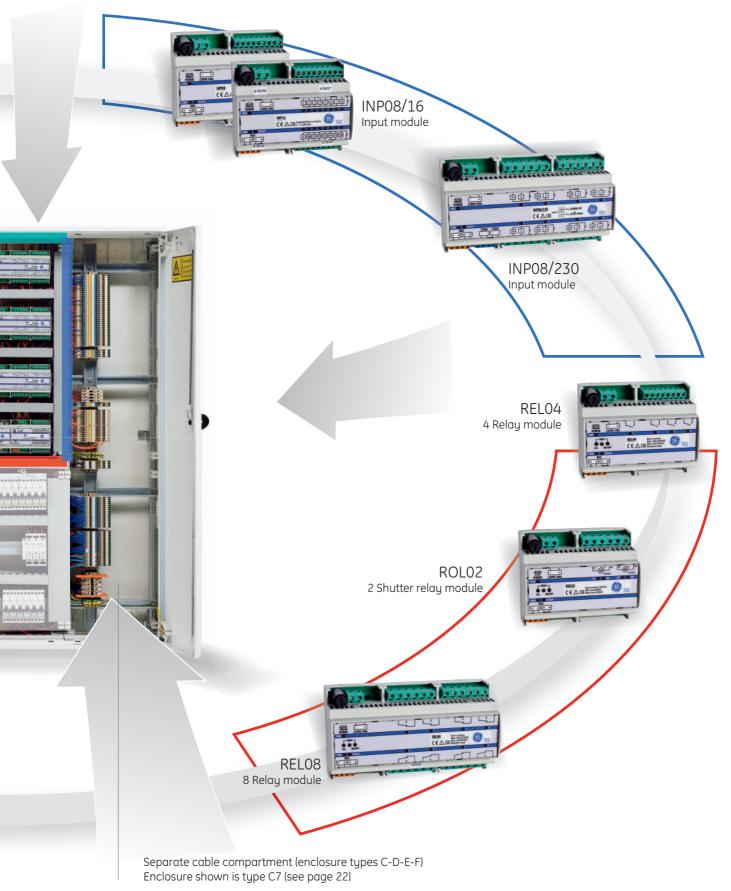
Simple installation – Can be done by your local electrician

- Quick & easy system setup through PC
- "HabiTEQ™ System Manager" free software.
 For online support go to the homepage of our website and click on Portfolio Residential.
 www.ge.com/ex/industrialsolutions

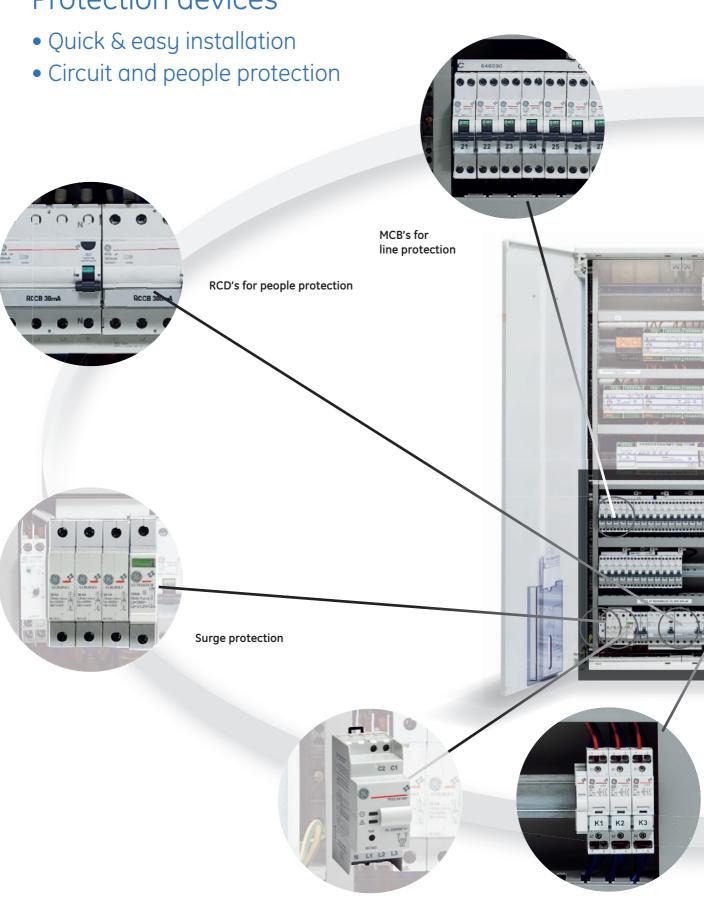


Pre-wired distribution board Automation components

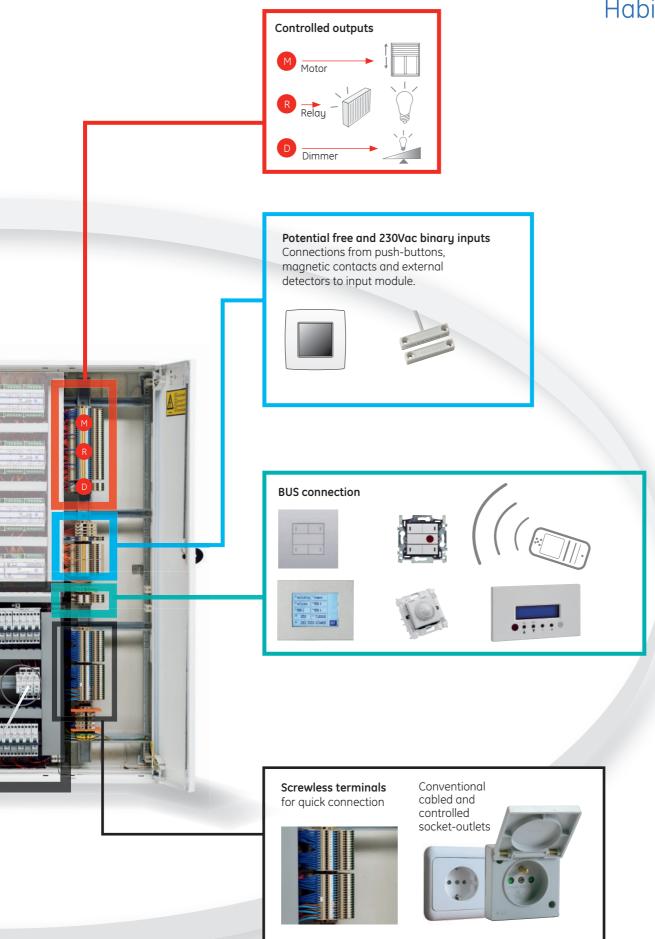




Pre-wired distribution board Protection devices







Customized distribution boards One enclosure for each requirement

Type A

Fix-o-Rail 150

Surface Mounting



 Rows
 Type A
 Code
 H x W x D
 Mod/ Row
 Total Mod

 4
 FOR 150
 A4
 750x355x150
 18
 72

Type B-F
Fix-o-Rail 144 F
Flush Mounting



Picture shown B6F

Rows	Type B-F	Code	H×W×D	Mod/ Row	Total Mod
4	FOR 144F	B4F	800×740×(35)140	24	96
5	FOR 144F	B5F	950×740×(35)140	24	120
6	FOR 144F	B6F	1100×740×(35)140	24	144

- Customized:
- equipped with modular devices
- external wiring direct onto input modules
- cables from socket circuits directly into MCB's
- wiring of controlled outputs on terminals
- single phase 40A incomer

- Customized:
- equipped with modular devices
- external wiring direct onto input modules
- cables from socket circuits directly into MCB's
- wiring of controlled outputs on terminals

Type B-S **Fix-o-Rail 144 S**Surface Mounting



Picture shown B6S

Rows	Type B-S	Code	H×W×D	Mod/ Row	Total Mod
4	FOR 144S	B4S	800×740×140	24	96
5	FOR 144S	B5S	950×740×140	24	120
6	FOR 144S	B6S	1100×740×140	24	144

• Customized:

- equipped with modular devices
- external wiring direct onto input modules
- cables from socket circuits directly into MCB's
- wiring of controlled outputs on terminals

Type B **VP-SYSTEM MV/MS**

MW= Wall Mounting
MS= Floor Standing



Picture shown B8

Rows	Type B	Code	H×W×D	Mod/ Row	Total Mod
4	VP MW	B4	650×550×210	24	96
5	VP MW	B5	800×550×210	24	120
6	VP MW	В6	950x550x210	24	144
7	VP MW	В7	1100x550x210	22	154
8	VP MW	В8	1250x550x210	22	176
9	VP MW	В9	1400x550x210	22	198
12	VP MS	BS12	1980×550×210	20	240

- Customized:
- equipped with modular devices
- external wiring direct onto input modules
- cables from socket circuits into terminals
- wiring of controlled outputs on terminals

Customized distribution boards One enclosure for each requirement

Type C **VP-SYSTEM MW/MS**

MW= Wall Mounting MS= Floor Standing



Picture shown C7



Type D	
VP-SYSTEM	MW/MS



Picture shown D9

Rows	Type C	Code	H×W×D	Mod/ Row	Total Mod
5	VP MW	C5	800×800×210	22	110
6	VP MW	C6	950x800x210	22	132
7	VP MW	C 7	1100x800x210	22	154
8	VP MW	C8	1250x800x210	22	176
9	VP MW	C9	1400x800x210	22	198
12	VP MS	CS12	1980x800x210	22	264

•	Custor	m 17 Δ C	
-	Custoi	1111250	Į

- equipped with modular devices
- separate cable compartment (in- and outgoing cables)
- cables from socket circuits onto terminals
- wiring of controlled outputs into terminals
- wiring of inputs on terminals

Rows	Type D	Code	H x W x D	Mod/ Row	Total Mod
5	VP MW	D5	800×1050×210	34	170
6	VP MW	D6	950×1050×210	34	204
7	VP MW	D7	1100×1050×210	34	238
8	VP MW	D8	1250×1050×210	34	272
9	VP MW	D9	1400×1050×210	34	306
12	VP MS	DS12	1980×1050×210	34	408

- Customized:
- equipped with modular devices
- separate cable compartment (in- and outgoing cables)
- cables from socket circuits onto terminals
- wiring of controlled outputs into terminals
- wiring of inputs on terminals



Type E **VP-SYSTEM MW**



Picture shown E8

Rows	Type E	Code	H×W×D	Mod/ Row	Total Mod
5	VP MW	E5	800×1300×210	38	190
6	VP MW	E6	950×1300×210	38	228
7	VP MW	E7	1250×1300×210	38	266
8	VP MW	E8	1400×1300×210	38	304
9	VP MW	E9	1980×1300×210	38	342

- Customized:
- equipped with modular devices
- separate cable compartment (in- and outgoing cables)
- cables from socket circuits onto terminals
- wiring of controlled outputs into terminals
- wiring of inputs on terminals

Type F **QuiXtra**[™] **630**



Picture shown FS12

Rows	Type F	Code	H×W×D	Mod/ Row	Total Mod
5	QuiXtra 630	F5	900×1240×250	36	180
6	QuiXtra 630	F6	1050×1240×250	36	216
7	QuiXtra 630	F7	1200×1240×250	36	252
8	QuiXtra 630	F8	1350×1240×250	36	288
9	QuiXtra 630	FS9	1600×1240×250	36	324
10	QuiXtra 630	FS10	1750×1240×250	36	360
12	QuiXtra 630	FS12	2050×1240×250	36	432

- Customized:
- equipped modular devices
- separate cable compartment (in- and outgoing cables)
- main compartment with transparent door
- cables from socket circuits onto terminals
- wiring of controlled outputs into terminals
- wiring of inputs on terminals
- Optional: main compartment with plain door