

Habiteo

Home & Building Automation



- Energy efficiency
- Outstanding comfort
- Enhanced safety



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

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Range of modular devices

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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!

HabiTEQ™ 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.

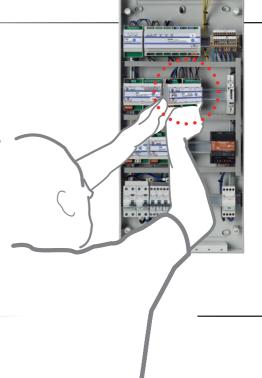
security



Easy to install

Modular building blocks, easily scalable!

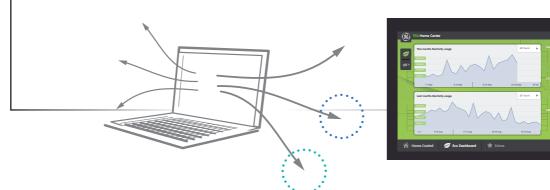
- Fast 2-wire BUS system with no polarity, no restrictions on topology
- Quick and easy system configuration
- Fast and simple installation



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)



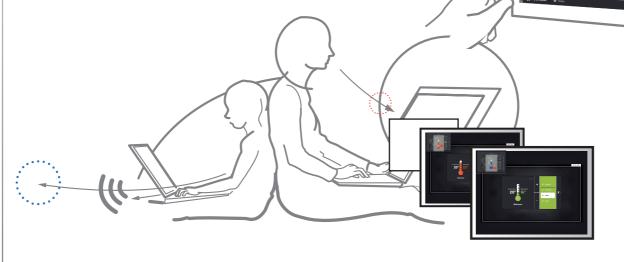
(1) Compared to other popular distributed systems.



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

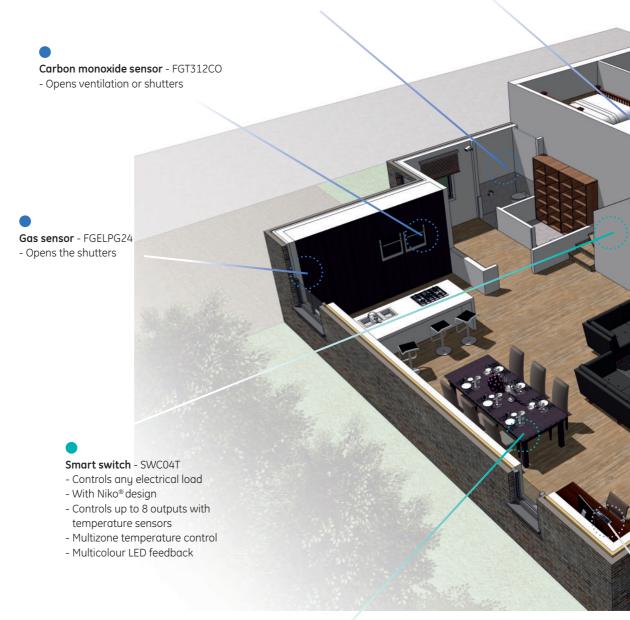
- (1) Controller with ethernet port.
- (2) Using the event handler protocol, supplied on request.

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

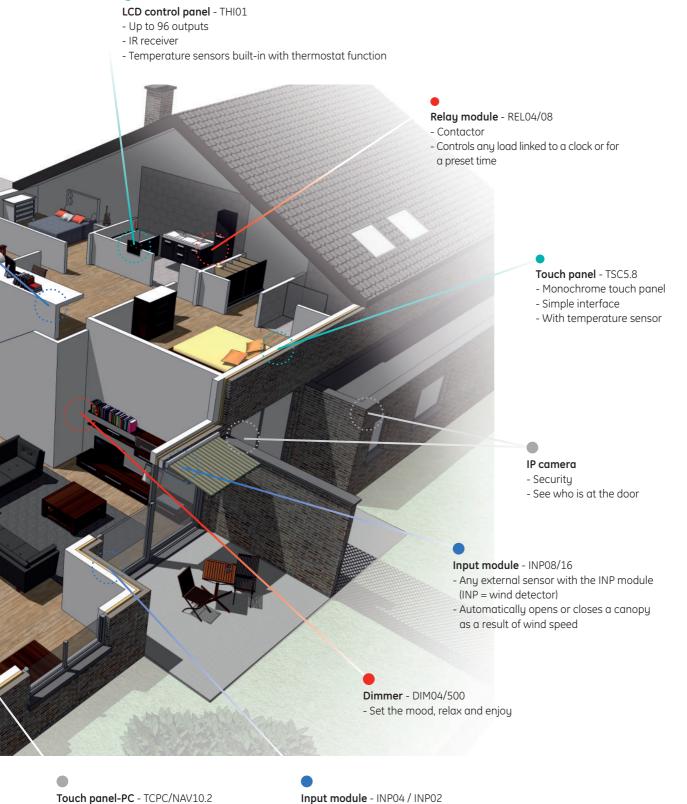


Interface module - SMS01

- Any mobile phone
- Controls any electrical load with text







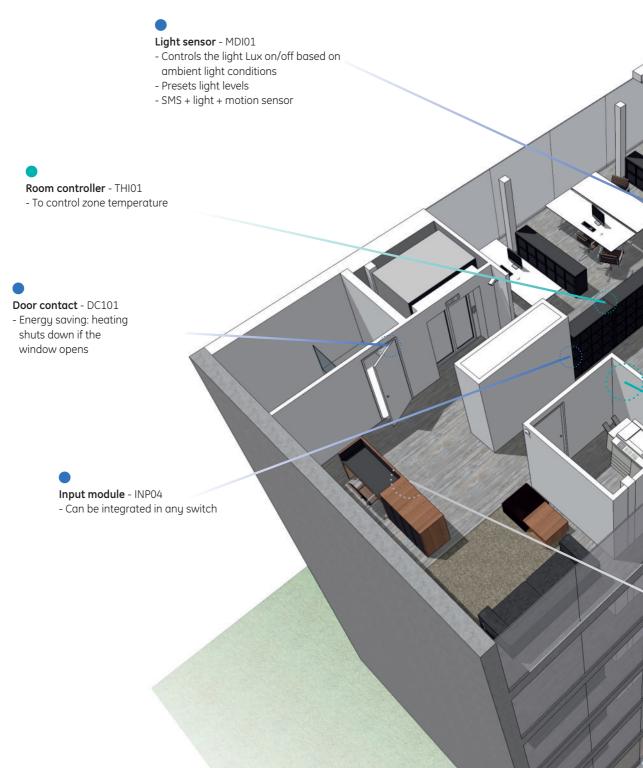
- Can be integrated in any switch

- Central home control with

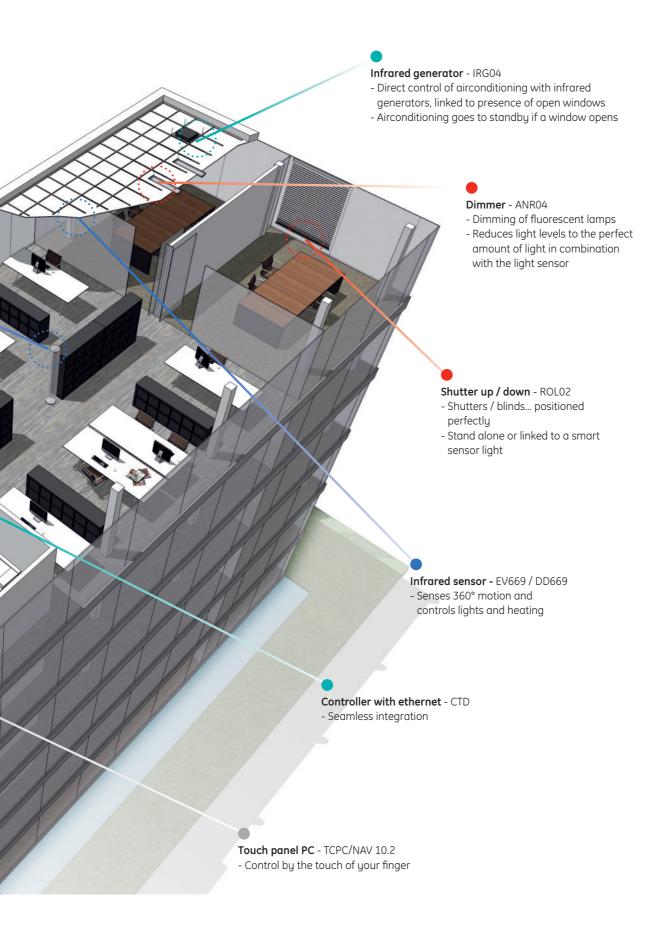
energy visualization



Building solution

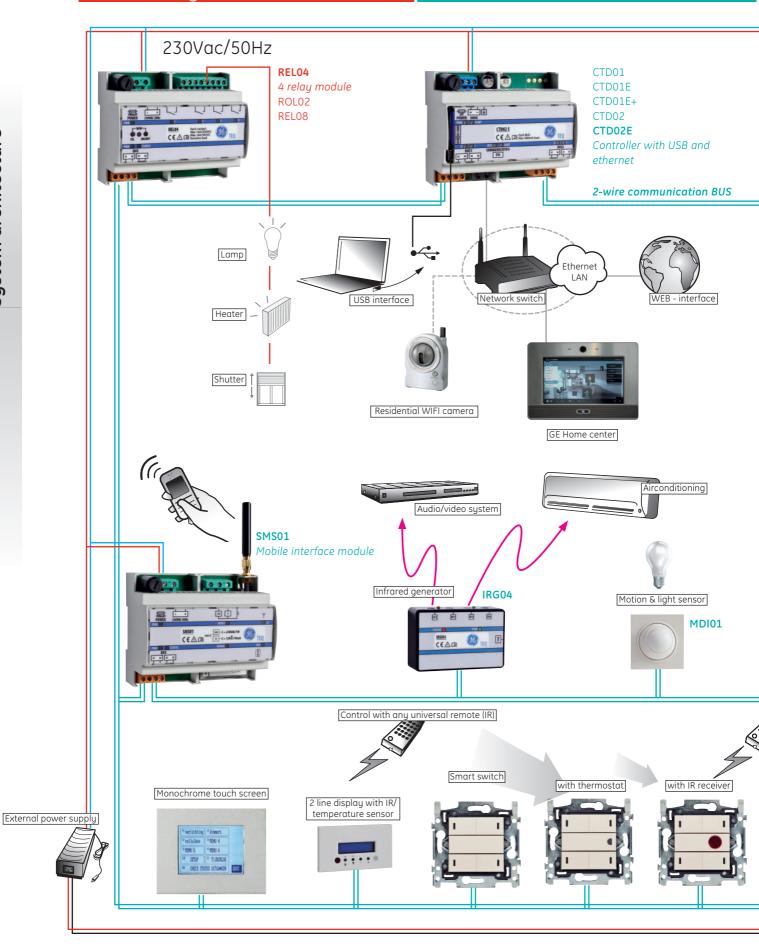






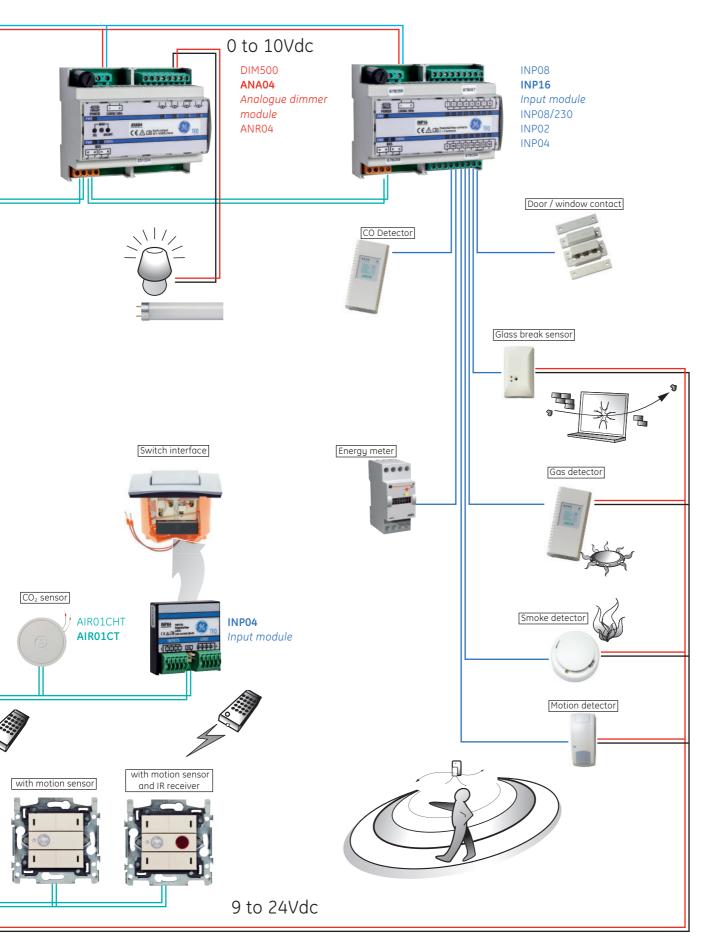
Relays / Load control

Controllers



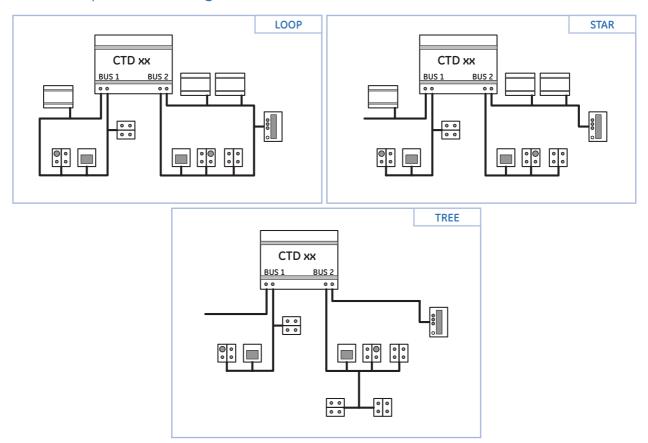
Lighting control

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)

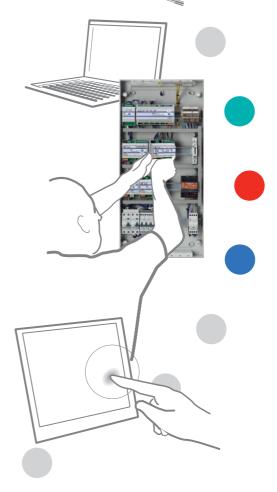


Your home or building automation solution... is just six steps away

- 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

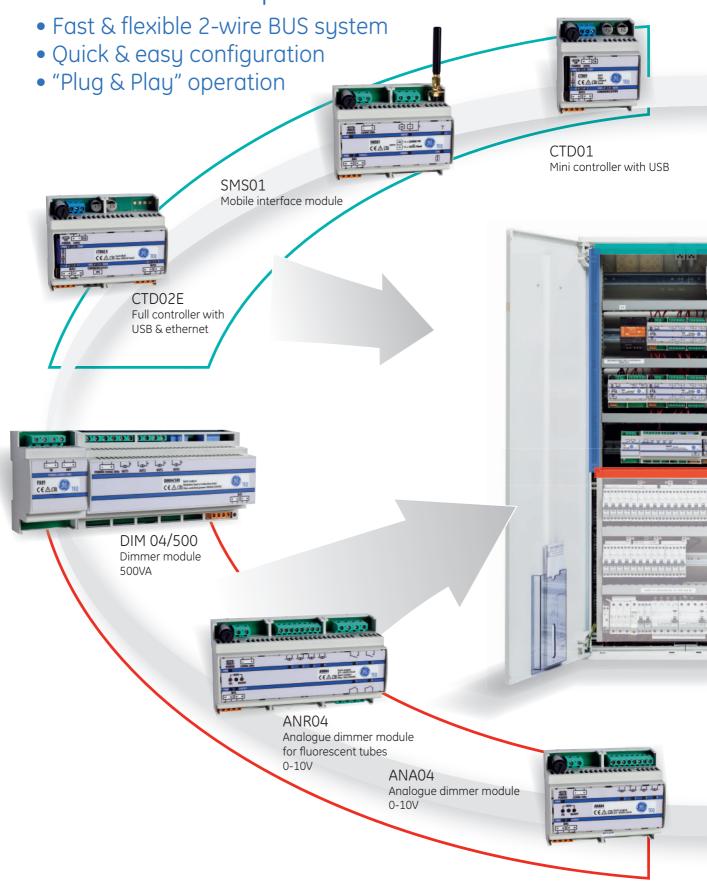
Simple installation – Can be done by your local electrician

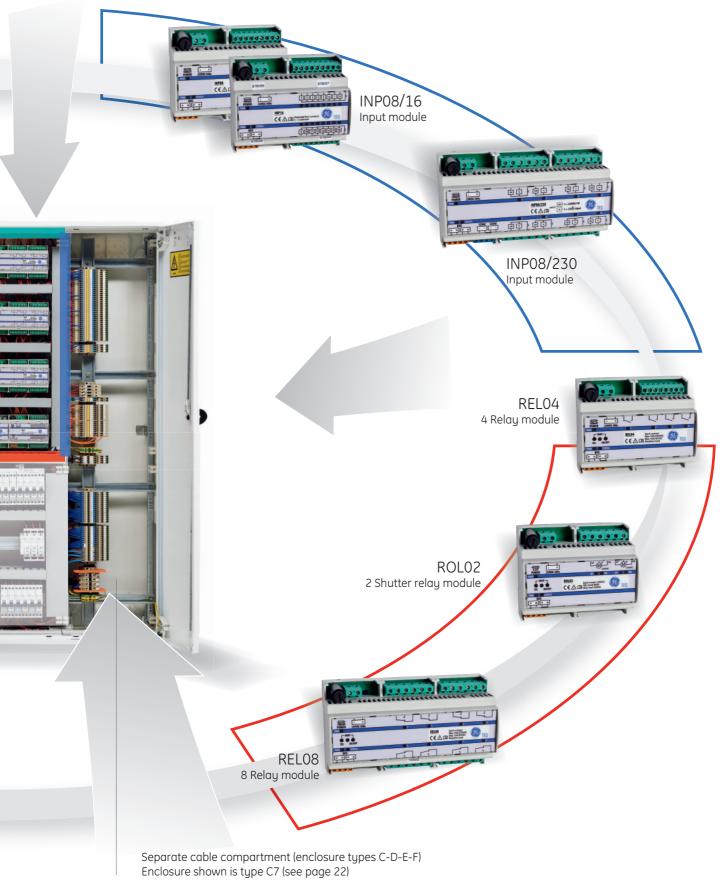
- Quick & easy system setup through PC
- "HabiTEQ™ System Manager" free software.
 For online support go to the homepage of our website and click on Portfolio Residential.
 www.ge.com/ex/industrialsolutions



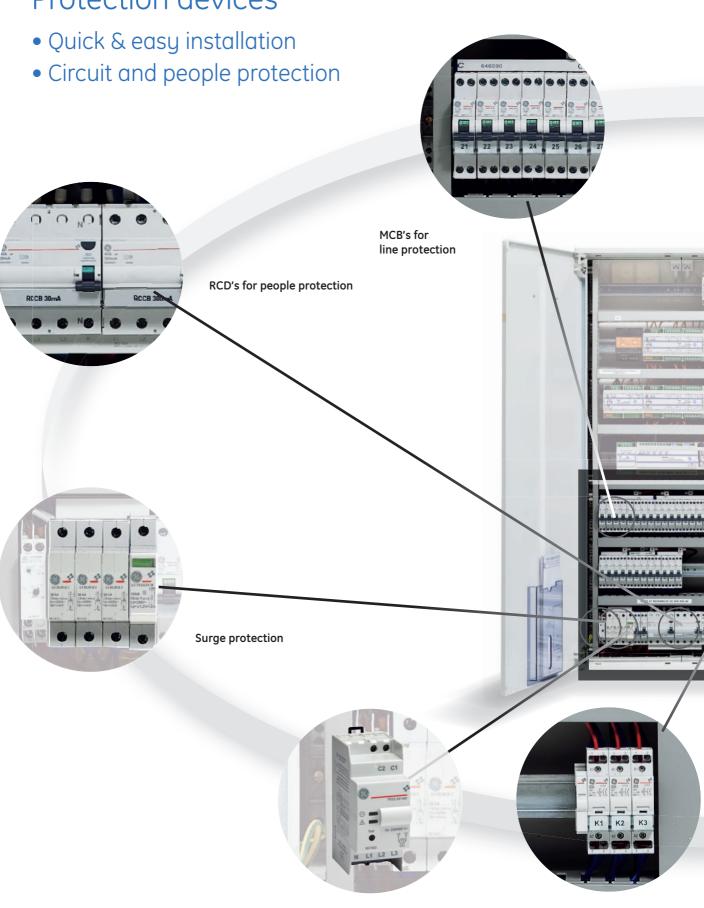


Pre-wired distribution board Automation components

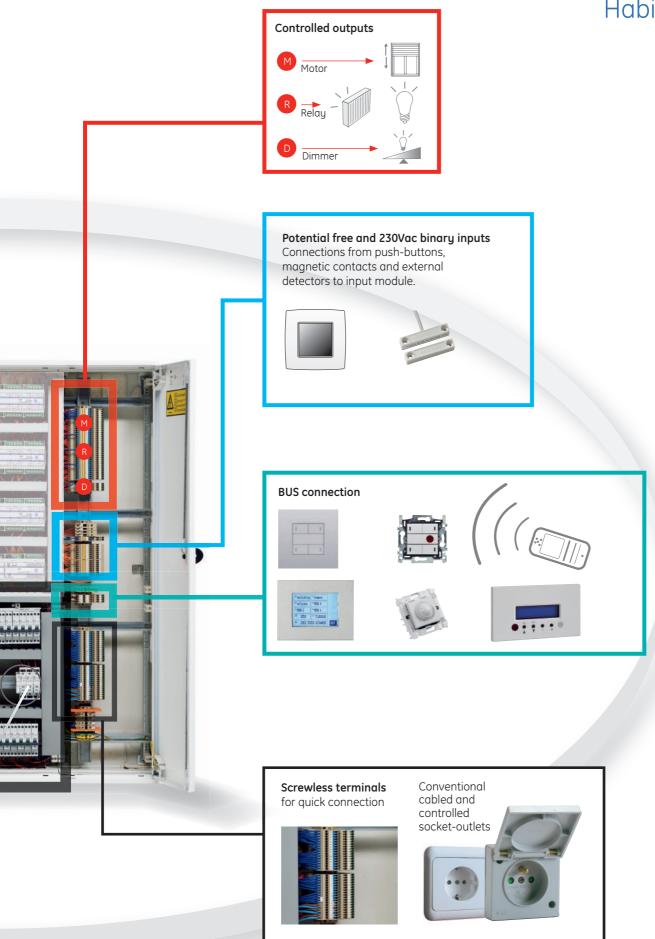




Pre-wired distribution board Protection devices







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	650x550x210	24	96
5	VP MW	B5	800×550×210	24	120
6	VP MW	В6	950×550×210	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

•	Custo	mize	C

- 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

Row	s 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

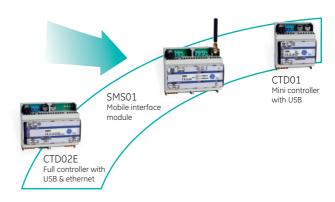
HabiTEQ™

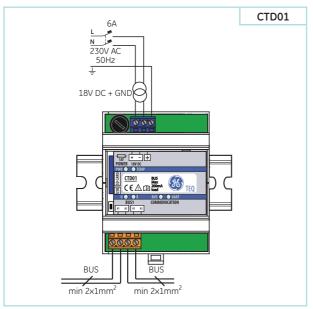
Automation components

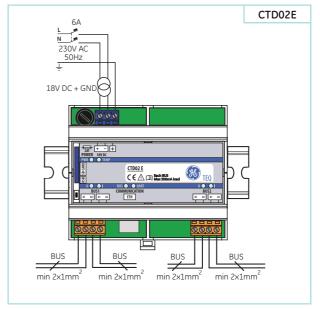
Controllers

The controller is the central brain of the HabiTEQ automation system and delivers the necessary power and data to all the connected modules. The controller is available in 6 different versions to suit your installation size.

The power supply is delivered via a stabilized 18Vdc/2A lead (included). In case of a loss of the supply voltage a built-in back-up memory will save all data for at least 4 years.





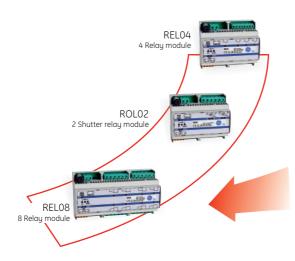


Controller	CTD01	CTD01E	CTD01E+	CTD02	CTD02E	
Power supply		18Vdd	c / 2A (supplied with con	troller)		
Output BUS (per BUS)	13.8Vdc / 200mA	13.8Vdc / 200mA	13.8Vdc / 400mA	13.8Vdc / 500mA	13.8Vdc / 500mA	
Power consumption	4W	CTD01/CTD01E/CTD0	1E+	6W CTD02	2 / CTD02E	
Approx. number of modules	12 t	o 15	30	35 per BUS	35 per BUS	
Number of BUS connections		1		2		
Logical functions	Digital logica	al functions - (AND/OR/ I	F THEN ELSE); Analog	ue logical functions (x, /	, + , -, <, >, =)	
Protection - fuse			1 AF			
Fitting			DIN-rail			
Dimensions		4 modules (72mm)		6 module:	s (107mm)	
Built-in communication	USB	USB USB & ethernet			USB & ethernet	
Sequences or scenes/clock	92 /100					
Back-up memory time		4 ye	ears (on board 2GB -SD C	Card)		

General specifications for DIN-rail automation modules		
Operating temperature +10 to +50°C without condensation		
Storage temperature	-10 to +60°C without condensation	
Maximum humidity	93%, without condensation	
Protection degree	IP20, EN 60529	
Fitting DIN-rail to DIN EN 50022		







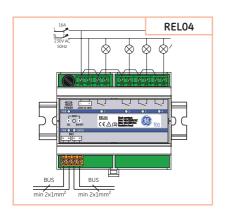
Relay modules

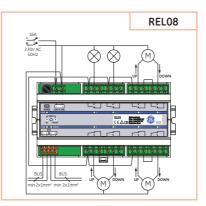
A choice of 3 different relay modules is offered to suit your switching application.

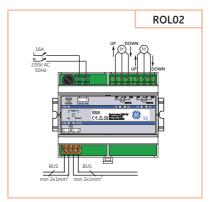
The relay module has 4 or 8 normally open, independently controlled contacts that can switch up to 16A each. The relay module does not have any specific function. It can handle all switching functions: monostable (bell), bistable (on/off), timer, interval, thermostat output, etc.

For shutter/blind/curtain control, the shutter module ROL02 must be used. For heavy inductive loads (multiple fluorescent lights) with a high capacity or bipolar applications, contactors need to be added. The relay module contact will then activate the coil of the contactor.

Each of the relay outputs have a unique serial number (e.g REL08) enabling programming anywhere and anytime. All programming remains internally stored in a nonvolatile memory. Following a loss of supply the outputs return to their previous position. A bipolar automatic fuse with a maximum of 16A must be placed on the feeder.







Relay modules	REL04	REL08	ROL02 (Shutter/Blinds)			
Power supply		AC 230V +/- 10%, 5060Hz - maximum				
Max. protection needed		16A/2P				
BUS load		10mA at nominal 13.8V				
Maximum consumption	9W (all relays ON)	15W (all relays ON)	9W (all relays ON)			
Internal fuse		500mA				
Insulation voltage		3kVac (tested)				
Fitting		DIN-rail				
Tuna	OUT1 – OUT4: 4 potential-free NO	OUT1 – OUT8:	UP1/2 – DN1/2: 4 potential-free NO single contacts			
Туре	single contacts	8 CO contacts	UP1 – DN1 and UP2 – DN2: internally locked contacts			
Rated current	16A (resistive at 2	30Vac and 30Vdc)	-			
Rated load	Resistive load (cos phi = 1) / 1 Inductive load (cos phi = 0.4 ; L/R=	Minimum load: 40W on 230Vac				
Maximum switching power	Resistive load (cos phi = 1) / 368 Inductive load (cos phi=0.4; L/R = 7ms	Maximum load: 560W on 230Vac				
Set/Reset time	15ms max. / 5ms max.					
Endurance	20mil. mechanical operations					
		Green LED: power supply				
	Red LED: Start-up 2s. and during programming					
LED indication	Orange LED: 1-X : 0 Orange LED: 1	Orange LED:UP, DN: Up1 / Down 1 /Up2 / Down 2 active Orange LED: manual mode				
Dimensions	6 modules 9 modules (157mm)		6 modules			



Dimmer modules

3 different dimmer modules are offered to suit a variety of dimming applications. The modules are controlled and programmable through the bus operating digitally with 8-bit precision. An optical separation between the inputs and outputs guarantees safe operation.

Multiple possibilities for dimmer control

- 1. One-button dimmer " ∇ " enables the reduction the number of control buttons.
- 2. Two-button dimmer: " Δ " and " ∇ " button enhancing the operating comfort.

When a button is kept depressed, the transit time from zero to maximum is 5.1s. A short pulse (< 0.3s) will take the dimmer to zero or to the maximum value in 2.5s.

The maximum value can be adjusted from 20 to 100%. The lighting can also be dimmed automatically after a set time of 1s to 255min. Ideal for bedrooms... If the dimmers are controlled by a sequence the rise time and fall time can be adjusted independently between 0.3s and 20min. Each module has a unique serial number enabling programming anywhere and anytime. After a loss of power the outputs return to their latest position.

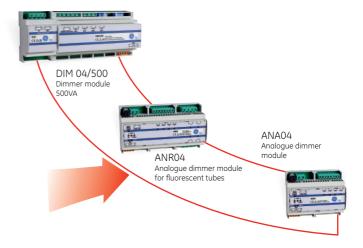
Dimmer module DIM04/500

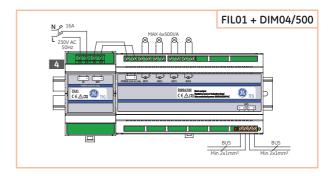
Module for a DIN-rail, suitable for dimming 4 loads of 500VA. The phase offset of each load is measured separately thus allowing the use of resistive (light bulbs) and inductive loads (conventional transformers). Electronic transformers can be used if they operate according to the phase leading principle. On the 500VA dimmer modules, each dimmer output is fused internally with a 4AF fuse. A 2P MCB 16A max. must be placed on the mains power.

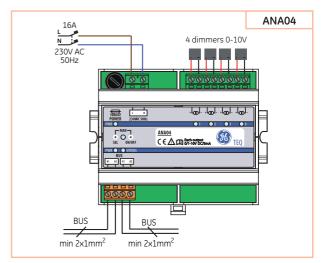
Note an additional filter module will be supplied with 500VA dimmers.

Analogue dimmer ANA04

Suitable for controlling four analog dimmers operating with input voltages of 0-10V. This module can be used for dimming very large capacities. It must be noted that the control voltages must not be connected to the mains. The negative terminals are internally linked. The control and programming are done through the 2-wire BUS, one or two button dimmer control. A 2P MCB 16A max. must be placed on the mains power.





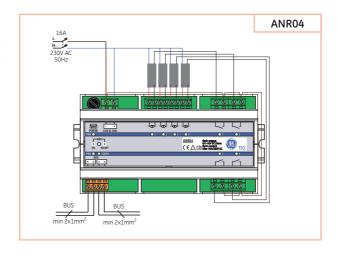






Analogue dimmer ANR04

Each analog output controls a relay contact, which releases when the output is on 0. This contact can disrupt the mains voltage so that the fluorescent lamps go out completely. It must be noted that the control voltages must not be connected to the mains. The negative terminals are internally linked. The control and programming is done through the 2-wire BUS, including the option of using one or two pushbuttons for the dimmer control. A 2P MCB 16A max. must be placed on the mains power.



Dimmers	DIM04/500 + Line filter	ANA04	ANR04	
	Forward phase dimmer modules	Analogue din	nmer modules	
Power supply	230Vac, 50Hz maximum			
Max. protection needed		16A/2P		
BUS load		10mA at 13.8V		
Standard consumption	2.3	SVA	6VA	
Internal fuse	4AF / output	100mAT si	ngle phase	
Fitting		DIN-rail		
Insulation voltage		3kV		
Type	OUT1 – OUT4: Dimmable outputs 500VA / channel		- OUT4: :s 0-10V /channel	
туре	-	-	SW1 – SW4: 4 potential-free NO single contacts	
Maximum load	Incandescent load 500VA at 230Vac Halogen lamps 500VA at 230Vac	Max. 10mA for analogue output	Max. 10mA for analogue output	
Minimum load	30% of maximum output		-	
	Green LED: power supply			
LED indication	Red LED: Start-UP 2s. and during programming		1anual override Dutput 1 to 4 active	
Rated current		-	16A	
Endurance	-	-	20mil. operations	
Rated load			Resistive load (cos phi = 1) 16A at 230Vac 16A at 30Vdc	
katea loaa			Inductive load (cos phi = 0.4; L/R=7ms) 8A at 230Vac 8A at 30Vdc	
Maximum switching power			Resistive load (cos phi=1) 3680VA at 230Vac 480W at 30Vdc	
		-	Inductive load (cos phi=0.4; L/R=7ms) 1840VA at 230Vac 240W at 30Vdc	
Dimensions	9 modules + 3 modules for filter	6 modules	9 modules	



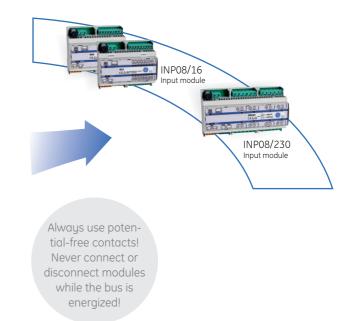
HabiTEQ™

Input modules

3 different input modules are available in the HabiTEQ to connect external contacts such as solar/wind detector, movement detector, door switches, push-buttons and analogue sensors. 8/16 optical isolated inputs are provided, which must be potential-free.

The input contacts can be selected and set using the PC software:

- Push-button = button that is open when inactive (e.g. doorbell)
- Normal open = contact that is open when inactive
- Normal closed = contact that is closed when inactive
- Switch = single-pole conventional switch. The maximum length of each input is 200m. The cable type is irrelevant as long as the 2 wires are each 1mm². (Contact load 1mA) Each of the 8 inputs has two serial numbers. The common (first connector on the right top and bottom) is connected internally. One may connect these together with other INP16 modules.



INP08/230

There are 8 optically insulated inputs. Each input needs a voltage to be active.

This can be:

- 12Vac/dc if connected between B and C (consumption approximately 10mA)
- 230Vac if connected between A and C (consumption approximately 1W)
- Orange LED lights positioned near inputs 1-8 indicate if input is active.

If there are inputs with potential-free contacts they can be connected to the module via 12Vac. The required voltage is provided on the top and bottom sides of the module.

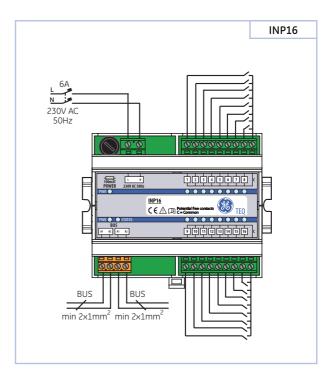
INPO8/230 12V AC 12V AC 230V AC 230V AC 250V AC 250V

INP08/INP16

There are 8 or 16 optically insulated inputs. Each input needs a voltage to be active.

This can be 12Vac/dc if connected between B and C (consumption approximately 10mA)

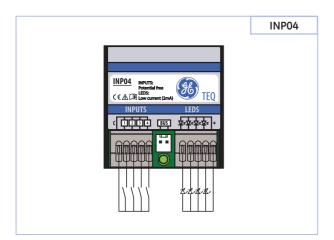
If there are inputs with potential-free contacts they can be connected to the module via 12Vac. The required voltage is provided on the top and bottom sides of the module.





INP02/04

This module can be used to interface with any conventional switch to the BUS. The size of the module permits installation within the switch flush mounted box.



Product description

Module for connecting external contacts such as regular switches and push-buttons, solar/wind detector, motion detector, smoke detectors, ...

On the INPO2/04, 2/4 potential free contacts and 2/4 low-current LEDs (2mA without serial resistor) can be connected. The maximum length of the conductor between the INPO2/04 and the potential free input is 20 meters.

The cable type or its section is irrelevant.

An INPO2/04 can control 2/4 outputs, 2/4 scenes or $2/4 \times 16$ scenes (via the sequence function).

The two/four low-current LEDs that can be connected to INP02/04 show the status of the mode that has been selected (push-button, normal open, normal close, switch). The INP02/04 is connected on the bus, and gets its power from the BUS.

Digital Input modules	INP02 ⁽¹⁾	INP04	INP08	INP16	INP08/230	
Power supply	BUS po	BUS powered		230Vac/5060Hz		
BUS load		10mA (nt 13.8V		20mA at 13.8V	
Standard consumption		-	2.65VA		9.2VA	
Insulation voltage		-		3kV		
Fitting		Typically inside conventional switch box in the wall or surface mount with double side stick tape.		DIN-rail		
Number of inputs	2 potential-free	4 potential-free	8 potential-free	16 potential-free	8 potential-free (optically separated 12Vac/dc or 230Vac selectable by connection)	
Input function (configurable through system software manager)	Push-button = button that is open when inactive (e.g. doorbell). Normal open = contact that is open when inactive. Normal closed = contact that is closed when inactive. Switch = single-pole conventional switch.					
				Green LED: power supply	J	
LED indication	Green LED: power supply External LEDS can be connected to indicate status of each Input if needed.		Red LED : Start-up 2s. and during programming			
			Orange LEDS 1 - 8: when the contact is connected (closed)	Orange LEDS 1 - 16: when the contact is connected (closed)	Orange LEDS 1 - 8: when the contact is active	
Dimensions	HxWxD = 12x40x41mm		6 mo	dules	9 modules	

(1) on request





Communication interfaces

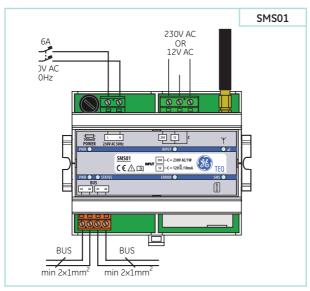
Communication can be established through the PC via an ethernet connection or through a serial USB interface. Further control of HabiTEQ system can also be achieved through a mobile phone using basic pre-configured SMS messages.

Ethernet/WEB interface

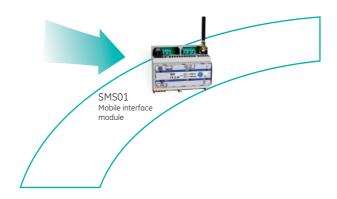
Incorporated into the controller. (see p. 24)

Serial interface - USB

The serial interface allows the HabiTEQ system to communicate with a PC or a modem. The "HabiTEQ System Manager" software (supplied free of charge) allows programming and operation of the installation.



Note: Pincodes can not be enabled or disabled when the SIM card is in the module. Pincode authentication of the SIM card can only be achieved with a mobile phone before placing it back in the module.



Mobile interface module

The SMS01 is a DIN mounted module that can be installed within the HabiTEQ system. The power supply is 230Vac. If the module must work when power drops, a UPS or internal rechargeable battery (Li-Ion) will be required. An additional connection (230V or 12V) is available to send a SMS message when the power drops.

The SIM card must be inserted into the SIM card reader located at the bottom of the module. If the module is mounted in a metal distribution box or on a place with bad network coverage (cellar, concrete...) it is recommended to add an optional antenna.

Features:

- Maximum 8 phone numbers can get access to the system
- View and control outputs: max 96 channels (sequences included) can be activated
 - Confirmation to selectable numbers
 - Compares SMS texts with predefined texts e.g. "KITCHEN ON" or "KTC ON" $\,$
 - Different value definitions (e.g. ON OFF 0 1 50%...)
- · Alarm messages:
 - Maximum 16 different alarm messages (e.g. burglar alarm, fire, power down etc.) can be sent to up to 8 phone numbers with intervals selectable from 1min up to 255min. and repeat rate 1-31 for each SMS can be set.
 - Stop sending alarm texts when "SMS STOP" message is received
 - "Power Loss" warning to all numbers

Mobile Interface	SMS01
	SMS MODULE
Power supply	230Vac, 5060Hz - maximum
Power guard connection	Power guard inputs: Connection I1 – C : 230Vac – max 1VA Connection I2 – C : 12Vac – max 1VA
BUS load	15mA at 13.8Vdc
Characteristic consumption	5VA
Internal fuse	100mA
Insulation voltage	3kV
Control	Up to 96 outputs (including sequences) can be activated or viewed
Access	Max. 8 phone numbers can get access to the system
Control possibilities	SMS texts can have different defined texts for different users and different status definition
Alarm messages	Max. 16 alarm messages can be sent to all numbers Warning power down to all numbers if battery is connected
SIM card	Not included
Antenna	Built-in antenna on top and optional external antenna
Band width	Tri-band
Dimensions	6 modules



System controllers

CTD01 - mini controller USB

	Description	Ref. No.
CAGE AND TO SERVICE A	One BUS connection Supply 200mA at 13.8V Built-in thermal protection (When connecting the modules, polarity is not important) On average about 12-15 modules can be connected to the bus. USB port through which the controller can be connected to a computer 2GB SD Card (that stores system configuration and can log system events)	678989
	CTD01E - mini controller USB & ethernet	
TOTAL	Same specifications as CTD01 controller Additional ethernet port with webserver	678990
	CTD01E+ - mini controller USB & ethernet	
CACAGA	Same specifications as CTD01E controller <u>Extended</u> supply 400mA at 13.8V On average about 30 modules can be connected to the bus.	679841
•	CTD02 - full controller	
CACAMEN ON	Two BUS connections Supply 500mA at 13.8V per BUS, 1000mA in total Built-in thermal protection (When connecting the modules, polarity is not important) On average 70 modules can be connected to CTD02 (about 35 per BUS). USB port through which the controller can be connected to a computer 2GB SD Card (that stores system configuration and can log system events)	678991
	CTD02E - full controller USB & ethernet	
CE ADDITION OF THE PROPERTY OF	Same specifications as CTD02 controller Additional ethernet port with webserver	678992





Universal load actuators

REL04 - relay module	
Description	Ref. No.
DIN-rail module suitable for switching four devices. 4 potential-free NO contacts, each can handle a max of 16A at 230V ($\cos \varphi = 1$) Each can be allocated an individual function by means of the software The module can handle all switching functions ^[1] : mono-stable (bell), bi-stable (on/off), timer, interval, thermostat output, etc.	679008
ROL02 - shutter module	
DIN-rail module, suitable for switching 11 2 shutters / blinds / curtains. 2X2 potential-free NO contacts, each can connect 16A at 230V ($\cos \varphi = 1$) The second contact can only give power output when the first output is not activated. Thus avoiding mutual signals on UP1 (/UP2) and DN1 (/DN2) when activating the 2 outputs at the same time.	679009
REL08 - relay module	
DIN-rail module, suitable for switching ⁽¹⁾ eight devices. 8 potential-free CO contacts, each can handle a max of 16A at 230V (cosφ=1) Each can be allocated an individual function by means of the software The module can handle all switching functions: mono-stable (bell), bi-stable (on/off), timer, interval, thermostat output, etc.	679010
	Din-rail module suitable for switching four devices. 4 potential-free NO contacts, each can handle a max of 16A at 230V (cosφ=1) Each can be allocated an individual function by means of the software The module can handle all switching functions¹¹¹: mono-stable (bell), bi-stable (on/off), timer, interval, thermostat output, etc. **ROLO2 - shutter module** DIN-rail module, suitable for switching¹¹¹ 2 shutters / blinds / curtains. 2X2 potential-free NO contacts, each can connect 16A at 230V (cosφ=1) The second contact can only give power output when the first output is not activated. Thus avoiding mutual signals on UP1 (/UP2) and DN1 (/DN2) when activating the 2 outputs at the same time. **RELO8 - relay module** DIN-rail module, suitable for switching¹¹¹ eight devices. 8 potential-free CO contacts, each can handle a max of 16A at 230V (cosφ=1) Each can be allocated an individual function by means of the software The module can handle all switching functions:

⁽¹⁾ For heavy inductive loads (multiple fluorescent lights) with a high capacity or bipolar applications, modular contactors need to be added. The relay module contact will then activate the coil of the contactor.

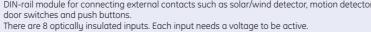
Modular contactors - Contax: see the full range of contactors in Residential components catalogue





Input modules

	Description	Ref. No.
CARINATE OF THE PARTY OF THE PA	DIN-rail mount module for connecting external contacts such as solar/wind detector, motion detector, door switches and push buttons. Eight potential free isolated inputs are provided The input contacts can be selected and set using the System Manager software: - Push button = button is open when inactive (e.g. doorbell). - Normal open = contact is open when inactive. - Normal closed = contact is closed when inactive. - Switch = single-pole conventional switch. The maximum length of each input is 200 meters. The cable type or its section is irrelevant.	679014
	INP16 - 16-channel input module	
(CARTES 0) (CARTES 0)	DIN-rail mount module for connecting external contacts such as solar/wind detector, motion detector, door switches and push buttons. Sixteen potential free isolated inputs are provided The input contacts can be selected and set using the System Manager software: - Push button = button is open when inactive (e.g. doorbell). - Normal open = contact is open when inactive. - Normal closed = contact is closed when inactive. - Switch = single-pole conventional switch.	679015
The state of the s	The maximum length of each input is 200 meters. The cable type or its section is irrelevant.	
	INP08/230 - 8-channel input module with potential (Vac/Vdc)	
	DIN-rail module for connecting external contacts such as solar/wind detector, motion detector,	679016



This can be:
• 12Vac/dc if connected between B and C (consumption approximately 10mA).
• 230Vac if connected between A and C (consumption approximately 1W).

If there are inputs with potential-free contacts they can be connected to the module via 12Vac. The required voltage is provided on the top and bottom sides of the input module.

The input contacts can be selected and set using the System Manager software:
- Push button = button that is open when inactive (e.g. doorbell).
- Normal open = contact that is open when inactive.

- Normal closed = contact that is closed when inactive.
- Switch = single pole conventional switch.

The maximum length for each input is 200 meters. The cable type or its section is irrelevant.





HabiTEQ™

Input modules for any switch interface

The INPO2/04 is a miniature yet versatile input module that offers the flexibility to interface any push-button switches to the HabiTEQ automation system. The size of the modules enables the mounting of the module in most of the current switch boxes.



INP02/04 - input modules

Description	Ref. No.
2-channel input module th 4-channel input module	678996 679013
Module for connecting regular switch. Or external contacts such as detectors, door switches, magnetic contacts for doors or windows, etc. The input contacts can be selected and set using the PC software: - Push button = button is open when inactive (e.g. doorbell). - Normal open = contact is open when inactive. - Normal closed = contact is closed when inactive. - Switch = single pole conventional switch. 4-LED connections, which can be used to indicate the status of each input.	

(1) on request

Lighting control

DIM500 - dimmer module + line filter

can be used for dimming very large capacities.

DOUBLE STATE OF THE PARTY OF TH	DIN-rail module, suitable for dimming 4 loads of 40-500VA (refer de-rating curve for higher temp). The dimmers operate digitally with 8-bit precision. An optical separation between the inputs and outputs guarantees safe operation. Each dimmer output is fused internally with a 4AF fuse. Ensure adequate ventilation in the fuse box. A 2P MCB of maximum 16A must be placed on the mains power.	679942
	ANA04 - analogue dimmer module	
CEACHING BILL	DIN-rail module, suitable for controlling four analog dimmers operating with input voltages of 0-10V or 1-10V (can be selected via HabiTEQ System Manager software). The control contains four digital-analogue converters with 8-bit precision. An optical separation between the inputs and outputs guarantees safe operation. This module can be used for dimming very large capacities.	679017
Town .	ANR04 - analogue dimmer module	
Manual Control	DIN-rail module, suitable for controlling four analog dimmers operating with input voltages of 0-10V or 1-10V (can be selected via HabiTEQ System Manager software). The control contains four digital-analogue converters with 8-bit precision.	679018

An optical separation between the inputs and outputs guarantees safe operation. This module

Each analogue output controls a relay contact, which releases when the output is on 0. This contact can disrupt the mains voltage so that the fluorescent lamps go out completely



Communication interfaces

SMS01 - SMS module

	Description	Ref. No.
	Mobile phone interface module DIN-rail mounted 230Vac module. Enables control and monitoring of the system via simple text messages.	678988
ļ	Any SIM card from local GSM service provider, with the PIN REQUEST DEACTIVATED can be inserted into the SIM card holder	
ee T	Features: • Max. 8 phone numbers can access system • Max. 96 channels can be activated • Configuration researce to alloted above numbers	
(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	 Confirmation messages to selected phone numbers Messages and values can be defined (e.g. ON- OFF - 0 - 1 - 50%) Maximum 16 different alarm messages 	
	(Antenna & cable included)	
	(Antenna & cable included) IRG04 - infrared generator	
		679101
Bus	IRG04 - infrared generator The IRG04 module is able to generate any IR code and transmit it to any device. This module makes it possible to control infrared operated devices such as a DVD player, music system, and shutters, aircon fan coil, TV. Each module has 4 different outputs, which can all send 16 different IR-codes. The required infrared codes need to be entered in the HabiTEQ™ SDB database by sampling	679101
	IRG04 - infrared generator The IRG04 module is able to generate any IR code and transmit it to any device. This module makes it possible to control infrared operated devices such as a DVD player, music system, and shutters, aircon fan coil, TV. Each module has 4 different outputs, which can all send 16 different IR-codes. The required infrared codes need to be entered in the HabiTEQ™ SDB database by sampling them through an infrared switch with 4 buttons (SWC04I/MI) or a thermostat infrared display	679101
BUS IN E	The IRG04 module is able to generate any IR code and transmit it to any device. This module makes it possible to control infrared operated devices such as a DVD player, music system, and shutters, aircon fan coil, TV. Each module has 4 different outputs, which can all send 16 different IR-codes. The required infrared codes need to be entered in the HabiTEQ™ SDB database by sampling them through an infrared switch with 4 buttons (SWC04I/MI) or a thermostat infrared display (THI01). The codes are stored in a non volatile memory. The IRG04 has 4 low power IR LED outputs. The IR LED attached to the included cables (2m) must	679101

Sensors - Motion and Light

MDI01 - Motion & lights sensor - indoor

Description	Ref. No.
Wall or ceiling mount module that can detect motion & light. The detector is integrated in a built-in frame with claw attachment and is connected to the HabiTEQ bus (no polarity). The motion detector has a range of approximately 7m at an angle of 110 degrees. The System Manager software allows you determine whether the output is a combination of motion AND light or only motion or only light ¹¹ .	
White	679084
Black	679092
Metallic	679100

⁽¹⁾ Light dependent: Control of lighting in shop windows, offices, car parking areas, sunblinds, shutters, or even lighting in a home. Features: User presettable switch light intensity, intensity range and hysteresis (to avoid on/off instable behaviour). Reaction time is also user presettable. 1 channel, 2 channels and 1 channel with incorporated digital time switch with week-cycle, all with separate photocell are available besides a 1 channel all-in-one device. Function: Electronic switch controlled by the intensity of the ambient light, detected by a separate or integrated photocell (depending on the model). When the light intensity drops below the threshold setting, the switch changes its state to the on position. An increasing ambient light intensity eventually will switch off the device again.

Light Sensitive Switches - GALAX LSS: see the full range of contactors in Residential components catalogue





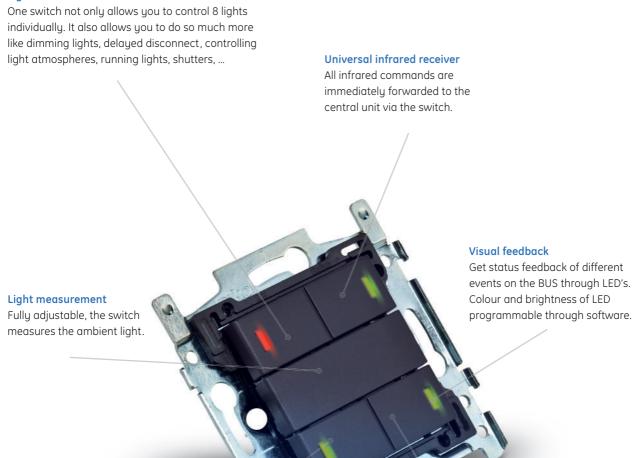
System visualization

	THI01 - 2-line control panel	
	Description	Ref. No.
	Wall mount system control panel with a 2 line 16-character LCD display. Menu driven display controlled by 4 push buttons on the front. The module has the following functions in addition to control of upto 96 output channels. - Thermostat with built-in temperature sensor - Infrared receiver to control upto 99 outputs/scenes with any universal infrared remote control. Metallic frame	679039
	White frame	679021
	Black frame	679022
	TSC5.8 - monochrome touch screen	
GENERAL MANAGEMENT OF THE PROPERTY OF THE PROP	Display module with an illuminated LCD touch screen for mounting inside the wall. - User-friendly menu allows operating 96 outputs and viewing their status. - Choice between 6 main menus and a random number of outputs can be programmed under each main menu. - Up to 8 outputs can be operated per screen (=submenu). - Built-in temperature sensor for thermostats function.	679102
	TSCBOX	
	Box for monochrome touch screen. For mounting the TSC5.8 into the wall.	679103
	TEQHC - Home Center	
A material and the second seco	HMI software The GE home center software runs on any Windows XP, XP Embedded or Vista PC and allows control and visualizes a HabiTEQ installation in an intuitive and user-friendly manner. The customer can easily add floor plans or groups and allocate outputs to certain rooms. Standard IP-cameras that support the mijpeg format can easily be connected to the GE Home Center	678995
	TCPC / NAV10.2 - Third party panel PC	
- • -	On request the GE TEQ center can be provided pre-installed on a touch panel PC hosting Win-XP . The PC comes with power supply.	
	Frame grey metal	678997
Am trans gar arm 0 h	Frame black	679918
	Frame white	679919
	Flush mounted box system	679917
	WPAD - Third party tablet PC	
	Black On request the GE TEQ Center can be provided pre-installed on a tablet PC hosting Windows 7 (Windows 8 starting 2013) The PC comes with AC Adapter Charger.	679846



Smart switch - Niko® design Comfort simplified

Lights on



Design

The smart switch is available in Niko® design.

Digital temperature measurement

The switch senses the temperature and issues the right commands to the central unit to e.g. activate the airconditioning or the heating.

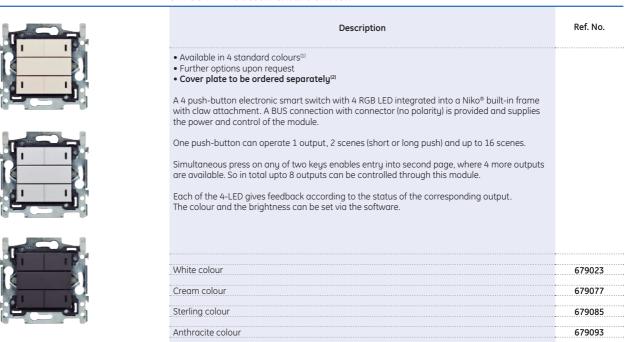
Specifications	
Power supply	BUS powered
BUS load	8 mA at nominal 13.8V
Dimensions	HxW = 71x73mm





Smart switch

SWC04 - 4-button smart switch



SWC04T - 4-button smart switch with thermostat

 Description	Ref. No.
Available in 4 standard colours ^[1] Further options upon request Cover plate to be ordered separately ^[2] In addition to functionality of a standard 4-button switch this version of the smart switch also host thermost	
Five different programs: - Manual - Freeze - Economy - Comfort - Night Can be activated through the keys. Each program has its own temperature setting that can be set in the HabiTEQ System Manager. The LED and the appropriate colour are used to indicate the present program running, which is also settable in the HabiTEQ System Manager.	
White colour Cream colour	679027 679079
Sterling colour	679087
Anthracite colour	679095



⁽¹⁾ Other colour options on request. Lead times apply. (2) Cover plates are not part of the switch, see page 41.



Smart switch (continued)

SWC04I - 4-button smart switch with Infrared receiver

Description	Ref. No.
 Available in 4 standard colours^[1] Further options upon request Cover plate to be ordered separately^[2] In addition to functionality of a standard 4-button switch this version of the smart switch also host s an Infrared receiver. 	
It can control upto 12 outputs/scenes with a universal infrared remote control. The first 4 infrared codes are always used for the function of the 4 push-buttons. The other 8 channels can be assigned to any other output. The infrared codes can be sampled taught with this switch or they can be downloaded from the database.	
White colour Cream colour	679026 679078
Sterling colour	679086
Anthracite colour	679094

SWC04M - 4-button smart switch with motion sensor

Description	Ref. No.
Available in 4 standard colours ⁽¹⁾ Further options upon request Cover plate to be ordered separately ⁽²⁾ In addition to functionality of a standard 4-button smart switch SWC04, this module contains a motion detector with an integrated light cell	
The range is approximately 7m at an angle of 110 degrees. The light cell is assembled next to the detector. The motion detector is automatically linked to the function of push-button 1. The HabiTEQ System Manager allows you to determine the priority between push button 1 and the detector. At the same time you can indicate the level of movement at which the detector needs to detect together with the light level.	
White colour Cream colour Sterling colour	679028 679080 679088 679096
	Available in 4 standard colours ⁽¹⁾ Further options upon request Cover plate to be ordered separately ⁽²⁾ In addition to functionality of a standard 4-button smart switch SWC04, this module contains a motion detector with an integrated light cell. The range is approximately 7m at an angle of 110 degrees. The light cell is assembled next to the detector. The motion detector is automatically linked to the function of push-button 1. The HabiTEQ System Manager allows you to determine the priority between push button 1 and the detector. At the same time you can indicate the level of movement at which the detector needs to detect together with the light level. White colour Cream colour



⁽¹⁾ Other colour options on request. Lead times apply. (2) Cover plates are not part of the switch, see page 41.



Smart switch (continued)

SWC04MI - 4-button smart switch with motion sensor & infrared receiver

Description	Ref. No.
Available in 4 standard colours ^[1] Further options upon request Cover plate to be ordered separately ^[2] In addition to functionality of a standard 4-button smart switch SWC04, this module contains a motion detector with an integrated light cell and an infrared receiver.	
White colour	679035
Cream colour	679081
Sterling colour	679089
Anthracite colour	679097

SWC04MT - 4-button smart switch with motion sensor & thermostat

	Description	Ref. No.
	Available in 4 standard colours ^[1] Further options upon request Cover plate to be ordered separately ^[2]	
	In addition to functionality of a standard 4-button smart switch SWC04, this module contains a motion detector with an integrated light cell and a thermostat with built-in temperature sensor.	
The state of the s	White colour	679030
	Cream colour	679082
	Sterling colour	679090
	Anthracite colour	679098

⁽¹⁾ Other colour options on request. Lead times apply. (2) Cover plates are not part of the switch, see page 41.



Smart switch - frame types

Niko® ORIGINAL - Flush surround plates

		Niko® ORIGII	VAL - Flush s	urround plate	?S			
			Colour		F	ack	Ref. No.	Niko-code
0		C-2-2-2[1]				10	670000	100 76100
		Cream ⁽¹⁾ White ⁽²⁾				10 10	679920 679921	100-76100 101-76100
0		White 2 modules				10	679853	101-76200
0	r	White 3 modules				10	679854	101-76300
	•	Light grey ⁽³⁾ Silver ⁽⁴⁾				10	679922	102-76100
		Greige ⁽⁵⁾				10 10	679923 679924	103-76100 104-76100
		oreige				.10	0,3324	
		(1)	(2)	(3)	(4)	(5)		
		Niko® INTEN	SE - Flush su	rround plates				
		White ⁽¹⁾				1	679925	120-76100
		White 2 modules				1	679849	120-76200
0		White 3 modules				1	679851	120-7630
1 0		Sterling ⁽²⁾ Anthracite ⁽³⁾				1	679926 679927	121-7610 122-7610
		Anthracite 2 mod	ules			1	679850	122-7610
0		Anthracite 3 mod				1	679852	122-7630
0	r	Bronze ⁽⁴⁾				1	679928	123-7610
	•	Dark brown ⁽⁵⁾ Azure ⁽⁶⁾				1	679929 679930	124-7610
		Silver ⁽⁷⁾			······································	1	679931	125-7610 127-7610
		Dark silver ⁽⁸⁾				1	679932	128-76100
		Gold ⁽⁹⁾				1	679933	129-76100
		(1)	(2)	(3)	(4)	(5)		
0		Niko® PURE - Stainless steel for Natural red ^[2] Natural white ^[3] Bamboo ^[4]		surround pla	ntes	1 1 1 1	679934 679935 679936 679938	150-76100 152-76100 151-76100 156-76100
0		Alu black(5)				1	679940	158-76100
		Alu grey ⁽⁶⁾ Champagne steel	1(7)			1	679937 670070	155-7610
		Stainless steel for	white ⁽⁸⁾			1	679939 679941	157-7610 250-7610
		(1)	(2)	(3)	(4)	(5)		
		(6)	(7)	(8)				



Passive infrared sensors

Compatible sensor range from GE Security (now UTC Fire & Security)

Description	Ref. No.
General purpose passive infrared sensors that can operate stand-alone or be linked to the system via an input module. The sensors need a separate power supply (9-24V).	
EV100 Sensor with settable range of 5 or 10m • Angle of view 86° with 5 curtains • Adjustable field of view with mounting bracket SB01 • NC contact	679943
EV100-PI Pet immune version (the sensor is immune to movement of a pet up to 20kg)	679944
EV1012 ^{III} Volumetric sensor with range 12m • Angle of view 86° with 9 curtains • NC contact when energized	679946
EV1012PI ^{III} Pet immune version (the sensor is immune to movement of a pet up to 15kg)	679947
EV525P Sensor with settable range of 25 or 16m • Angle of view 89° (volumetric) with 9 curtains • Adjustable field of view with mounting bracket SB01 • NC contact when energized	679948
EV669 Ceiling mounted sensor - 10m range • Angle of view settable to 180 or 360° with 18 curtains • NC contact, voltage free relay	679949



Dual detector based sensors

Description	Ref. No.
Sensors with dual detection technology, combining Infrared and microwave detection to provide high quality precise detection. The sensors need a separate power supply (9-24V). • To be linked on input module	
DD100 • 10m range • Angle of view 86° with 5 curtains • NC contact • Adjustable field of view with mounting bracket SB01	679952
DD100PI Pet immune version (the sensor is immune to movement of a pet up to 20kg)	679953
DD105 Volumetric sensor with settable range 7 or 12m • Angle of view 86° with 7 curtains • The sensors is immune to movement of a pet up to 20kg • NC contact when energized.	679954
DD669 ⁽¹⁾ Ceiling mounted sensor • Angle of view 360° with 18curtains • Adjustable range 12 or 20m • NC contact, voltage free relay	679955
SB01 Wall or ceiling mount bracket for EV and DD Series	679998
360FM Ceiling mount bracket for EV669 and DD669 sensors	679999

Outdoor passive infrared detector

Description	Ref. No.
The sensors need a separate power supply (9-24V). • To be linked on input module	
DI601 Stand-alone external sensor -10/20/30m - 33/66/98ft selectable	679951
 Electronic range setting: 10/20/30m 10 to 70° detection angle 180° pan & 90° tilt for flexible install High dust and humidity resistance (IP65) 	





Door and window contacts

	Description	Ref. No.
	The contacts have to be linked on input modules	
	DC101 Surface mount window-door contact, wired • 15mm standard operating gap • White colour • NC contact	679968
11	DC101B Surface mount window-door contact, wired • 15mm standard operating gap • Black colour • NC contact	679969
	DC102 Surface mount window-door contact with screw terminals • 18mm standard operating gap • White colour • NC contact	679970
[]	DC102B Surface mount window-door contact with screw terminals • 18mm standard operating gap • Black colour • NC contact	679971
	DC123 Surface mount window-door contact with screw terminals • 18mm standard operating gap • CO contact	679972
	DC137 Surface mount window-door contact with screw terminals • 37mm wide operating gap • NC contact	679973
	DC141 Surface mount window-door miniature contact, self-adhesive, wired • 25mm standard operating gap • NC contact	679974
00	DC108S1 Surface mount overhead floor mount contact, wired - armored cable • 75mm standard operating gap • NC contact	679975
	DC106 Recessed mount contact wired, flanged housing • 12mm standard operating gap • NC contact	679976
	DC127 Recessed mount contact, wired, press-fit • 31mm wide operating gap • NC contact	679977



Door and window contacts (continued)

Description	Ref. No.
DC120 Recessed mount contact wired, stubby press-fit • 18mm wide operating gap • NC contact	679978
DC105 Recessed mount contact, wired, bare magnet • 12mm standard operating gap • The DC105-contact with its small diameter (64mm) is ideal for NC contact	679979
MM108 Surface overhead - angle mount contact	679982
MM115 Surface mount contact - wired	679984
DC193 L-bracket for DC102, DC104, DC123, DC137	679985

Safety sensors

	Description	Ref. No.
	Sensors linked through input modules. Separate power supply needed (9–24V). Smoke sensors	
,	DP721R ⁽¹⁾ Photoelectric smoke detector with field exchangeable optical chamber as well as a built-in relay for local switching applications • CO relay output	679956
	DP721RT ⁽¹⁾ Photoelectric heat and smoke detector • With field exchangeable optical chamber and local relay output facilities	679957
	DP721RTA ⁽¹⁾ Photoelectric smoke and heat detector with relay output, auto reset	679958
	DB702 Conventional fire detector base used for all 700 series conventional fire detectors. • Includes a normally closed continuity switch to allow easy cable testing during installation	679997
	211 Replacement optical chamber for 700 series detectors	679996



$\mathsf{HabiTEQ}^{^\mathsf{TM}}$

Safety sensors (continued)

	Description	Ref. No.
	Stand alone battery powered smoke detector 562NSE • With on board sounder • Local silence and test function • Full EN14604 approval • Self-diagnostics monitor sensitivity and operational status • Replaceable optical chamber for easy maintenance	679950
	Hazardous gas sensors FGT312CO Alarm • 50 ppm (parts per million) 75 minutes • 100 ppm 25 minutes • > 300 ppm immediate	679963
	Flammable gas sensors FGE312LP LPG detector for domestic applications • Alarm relay 12-24Vdc • Prealarm 5% LEL • Alarm 10% LEL	679959
	FGE330LP LPG detector for domestic applications • Alarm relay, 230Vac • Prealarm 5% LEL • Alarm 10% LEL	679960
	FGE312ME Methane detector for domestic applications • Alarm relay, 12-24Vdc	679961
	FGE330ME Methane detector for domestic applications • Alarm relay, 230Vac	679962
:•	Glass break sensor GS930 Acoustic glass break detector - 3x3 technology • Semiconductor relay opens on alarm	679964
The state of the s	GS905 Handheld acoustic glass break tester with real glass break sounds • Different settings depending on kind of glass to be protected	679965
$((\bigcirc))$	Sirens AS270 Indoor siren, 1 tone - without flash	679994
$((\bigcirc))$	AS271 Indoor siren, 1 tone - with flash	679995





Safety accessories

	Description	Ref. No.
-1	Panic buttons HB191 ⁽¹⁾ Personal attack switch - single button • NC contact	679986
- 1	HB194 ⁽¹⁾ The HB194 personal attack switch incorporates a mechanical double button • Supplied with a key reset	679987

Third party accessories

	Combined sensors CO_2 , temperature and humidity -BUS connected AIR01CT Measures the CO_2 concentration and temperature in the living space. The value measured can be used by the controller to activate a valve of a ventilation system, open or close a window via a motor, etc. in order to optimally aerate the space.	678999
	AIR01CHT Measures the CO_2 concentration, temperature and humidity in the living space. The value measured can be used by the controller to activate a valve of a ventilation system, open or close a window via a motor, etc. in order to optimally aerate the space.	679847
	AIR01HT Measures the temperature and humidity in the living space. The value measured can be used by the controller in order to provide optimal room climate.	679848
	Constant light control dimmer - CLC01	679914
CLEOT CONTROL POR PAGE CLEOT CONTROL PAGE	The CLC01 ensures the desired light level remains constant in every room by adapting the lighting to the intensity of the natural light. The CLC01 is supplied and controlled via the HabiTEQ two-wire bus. The required light level can be set with the HabiTEQ configuration software. A light sensor on the CLC01 continuously measures the light level. The difference between the desired and effective light level is adjusted by the CLC01 that dims the connected lighting to Maintain the light level in the room at the required level. A galvanic separation between the bus and the output guarantees its safe operation. The CLC01 has an adjustable output (via the System Manager Software): 0-10V (sourcing - max 5mA) or 1-10V (sinking - max 100mA) that can be connected to one or more lighting fixtures.	
	Shutter module - ROL02P	679842
TOTAL STANK ON THE	ROL02P can be used to control and position shutters. This module is suitable for switching and positioning two 230 Vac shutter motors with limit switch contacts. Each shutter on the ROL02P can be positioned between 0% and 100% of the run time. An internal calibration mechanism will calibrate the shutter every time it is fully raised or lowered. This ensures the desired position of the shutter remains accurate over time.	



HabiTEQ™

To complete your distribution board GE presents a wide range of modular devices



MCBs

Miniature circuit breakers

From 0.5 to 125A - 1 to 4P configuration.
From 3kA to 50kA breaking capacities.
According to EN/IEC 60898-1 and EN/IEC 60947-2
Unibis™ compact MCBs:

2P in 1 module, 3 and 4P in2 modules. Fixwell™ screwless MCBs 6 and 10kA.

RCCBs

Residual current operated circuit breakers without integral overcurrent protection

From 16 to 100A and 10mA to 1000mA. According to EN/IEC 61008-1 and BS EN 61008-1

RCBOs

Residual current operated circuit breakers with integral overcurrent protection.

From 4 to 40A and 10mA to 300mA, 1P+N. According to EN/IEC 61009-1



Add-on RCDs

Add-on residual current devices for MCBs

For 2 to 4 poles MCBs, 30 up to 1000mA. According to EN/IEC 61009-1









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