Qbus

Qbus makes buildings smart

Plug in, play together and let it grow

Qbus is a Belgian company which has been developing technologies to make residential and commercial buildings smarter since 1999. A smart building provides more peace of mind and comfort but uses less energy. In the meantime Qbus has already made more than 11,0000 homes and buildings smart, both in Belgium and abroad.

Qbus has an experience platform of various products and services to make homes and buildings smart: from an expandable basic installation with an All Off button to a complete automation system, from the Qbus Cloud that enables you to remotely control and view your home or building to Qbus Care – a range of products and services for buildings with a care function, and from the Tastu designer switches to Ubie, the Internet or Things Gateway.

Why Qbus?
Easy, flexible &
ready for the future

Easy to configure

The Qbus Stand-Alone modules can be configured without PC; the necessary settings can be adjusted with the buttons on the module.

For the Full Qbus system, the Qbus configuration software is available for free and user-friendly: we also provide training to help installers on their way in the Qbus configuration even quicker.

User-friendly

With a Full Qbus installation, the end users can control and view their smart home in a simple and intuitive way through the free Qbus Cloud and apply the desired adjustments themselves.

Easy to install

The Qbus Stand-Alone system consists of smart teleruptors and dimmers. With star wiring all the in- and outputs are connected with the Qbus modules.

The Full Qbus system is even more easy to install. In a Full Qbus installation power and communication are supplied via the Qbus two-wire bus to all the connected Qbus modules. The Qbus two-wire bus has no polarity, and can be installed in any topology (loop, tree, star or a combination of the above). All this results in an extremely flexible, fast and easy installation.
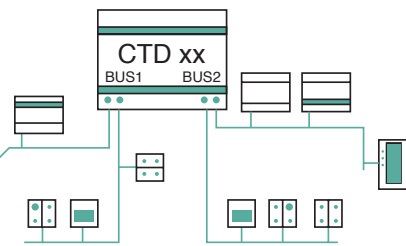
Closed loop

CTD xx

BUS1   BUS2

Tree structure

CTD xx

BUS1   BUS2

Star structure

CTD xx

BUS1   BUS2
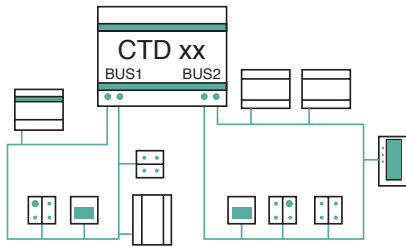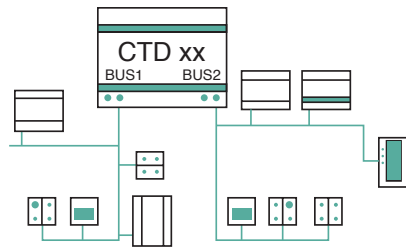
Technical specifications Qbus two-wire bus:
- No polarity
- Any topology
- Bi-directional and simultaneous communication
- Power bus principle = high breakdown insensitivity

Qbus two-wire bus requirements:
- Each cable with section 2 x 1.0 mm^2
- Maximum distance between the controller and the furthest module on the bus:
  - *In closed loop (most indicated): 200 metres (= 400 metres loop). An extension can even be planned on the loop if not longer than 30 metres and if the total distance between the controller and the furthest module is not longer than 200 metres*
  - *In star or tree structure: maximum distance between controller and furthest module on the bus: 100 metres*

Flexible

Adjustable control via every switch, sensor, smart phone, tablet, PC

Any standard switch or push button can be used in a Qbus installation. Qbus has also designed smart switches with integrated sensors and colour LEDs, in Niko, Bticino, CJC, Lithoss, JUNG and Tastu design. But Windows, iOS and Android devices can also be used to control, view or receive messages from a smart Qbus building.

Ready for the future

Modular solution always more expandable

A Qbus system can start with a limited installation but also offers extensive possibilities. It's a piece of cake to expand from a Qbus Stand-Alone start system to a Full Qbus installation.

New developments always remain compatible with the original products. Our free software updates ensure that the modules in your installation also can support new functions and techniques.

Qbus Stand-Alone

Prepare your home for the future in an easy, affordable way

The patented Qbus Stand-Alone (SA) range contains modules to switch on screens, rolling blinds, sockets, lighting and to dim any type of lighting. All the Qbus SA modules can work autonomously and already provide limited domotics functions such as an All Off button, a Panic button and timers. The Stand-Alone modules can also be connected to a Qbus controller to then be integrated in a complete Qbus domotics installation.
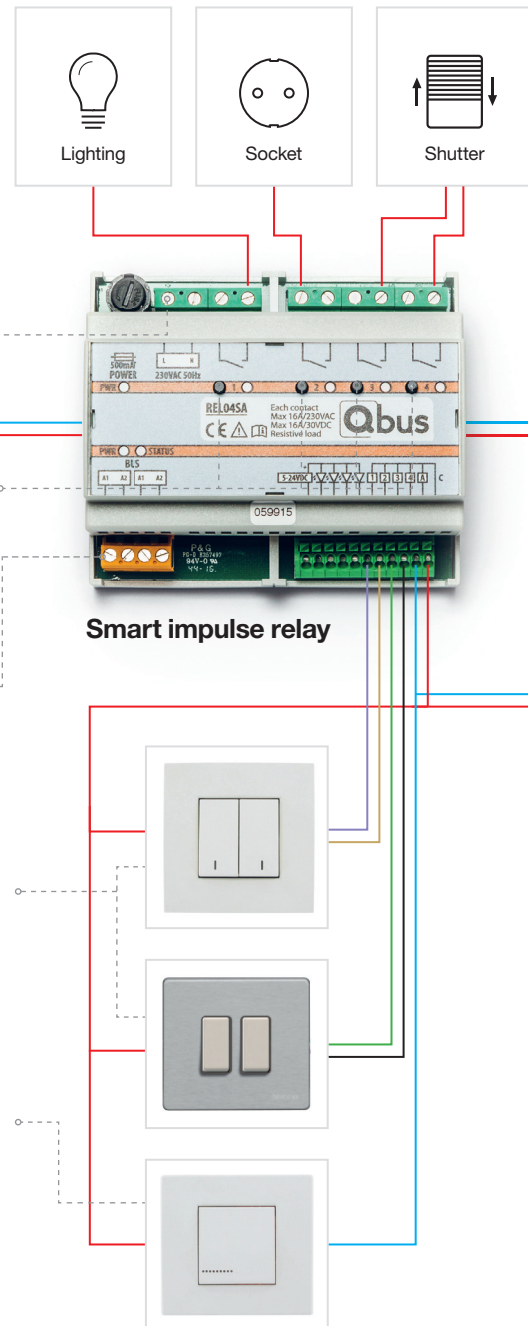
Lighting   Socket   Shutter

- Internal power supply

- Manual control with LED feedback

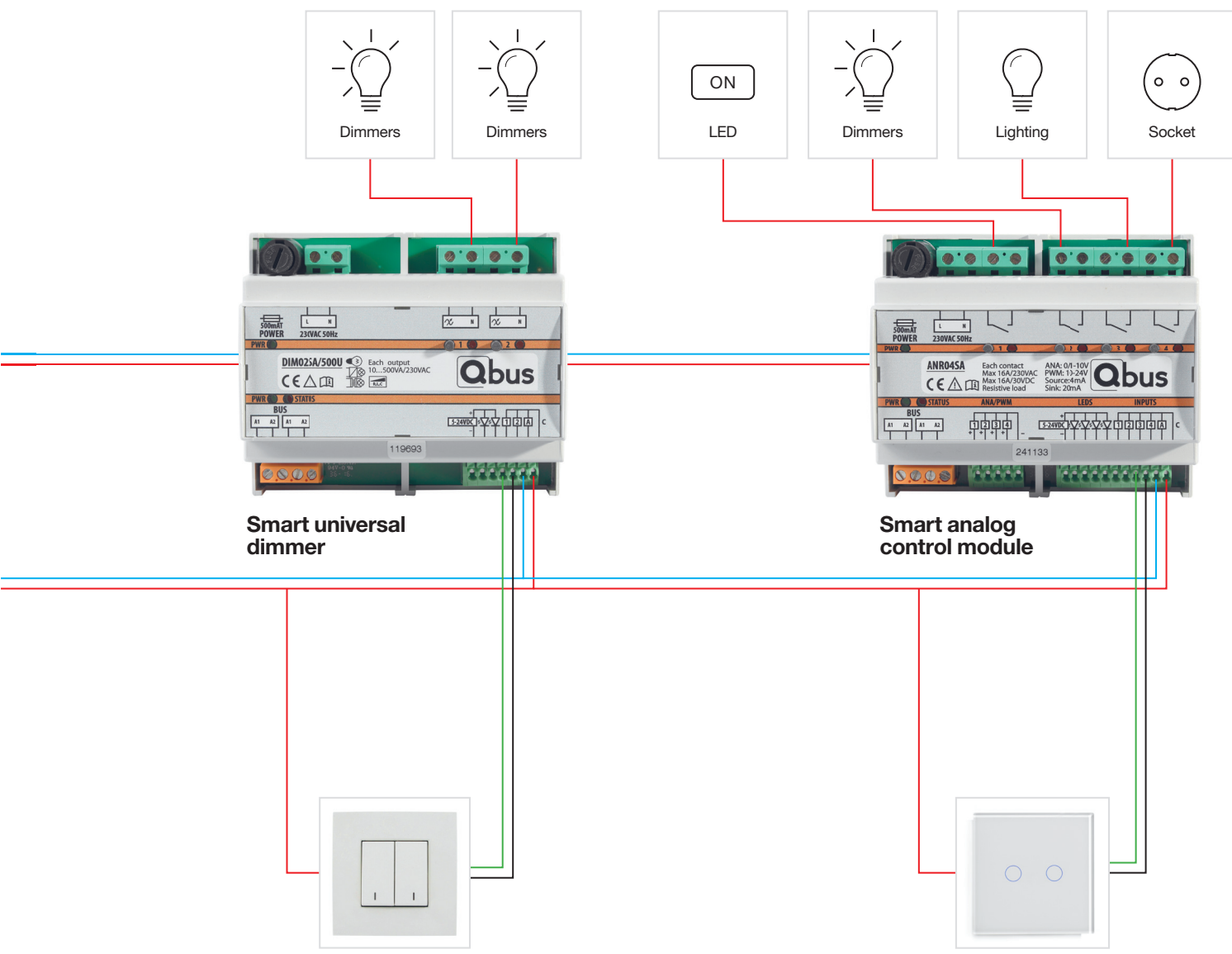**Smart impulse relay**

- Expandable to full-fledged home automation system

- Standard switches control outputs
- LED feedback possible

- Short push = All outputs off (Energy saving)
- Long push = All outputs on (Panic button)

Dimmers   Dimmers   ON LED   Dimmers   Lighting   Socket

Smart universal dimmer
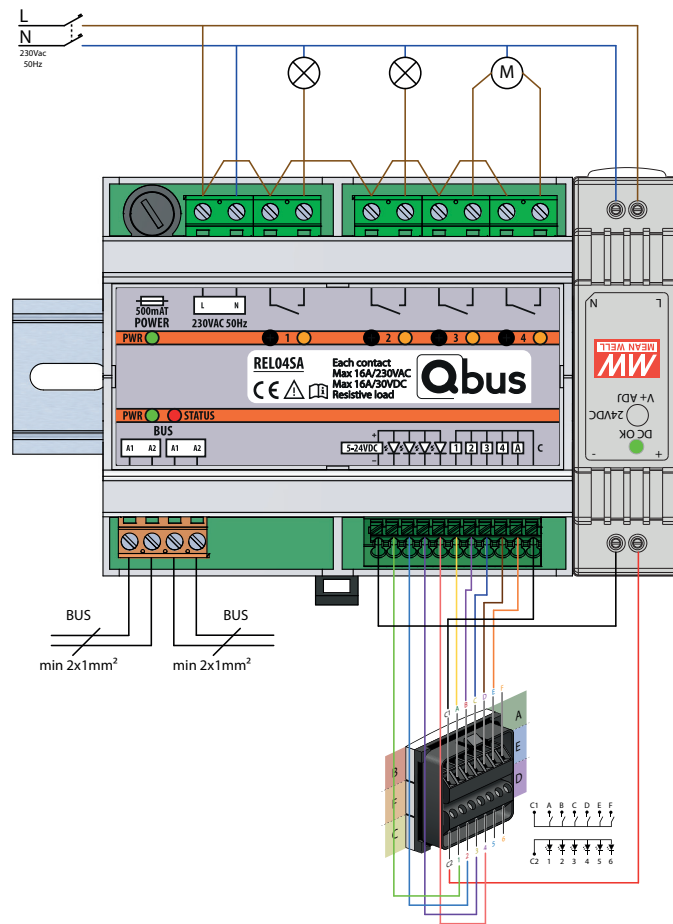
Smart analog control module

Stand-Alone modules

RELAY MODULES

Smart impulse relay module

Product code: REL04SA

- DIN rail module

- Contains 4 x 16A connected outputs and 5 inputs including 1 All Off / Panic button

- Can also be used to control motors

- Module can be used both Stand-Alone and combined with a controller (Full Qbus)

DIMMERS

Two channels (Stand-Alone) universal dimmer

Product code: DIM02SA/500U

- DIN rail module

- Dims 2 circuits of 10-500VA

- For halogen lamps, electronic and traditional transformers, incandescent lamps, dimmable CFL and 230V LED lamps

- This module can also be used Stand-Alone (without controller) as there are 3 direct inputs on board for the connection of standard push buttons (including an All Off & Panic button)

DIMMERS

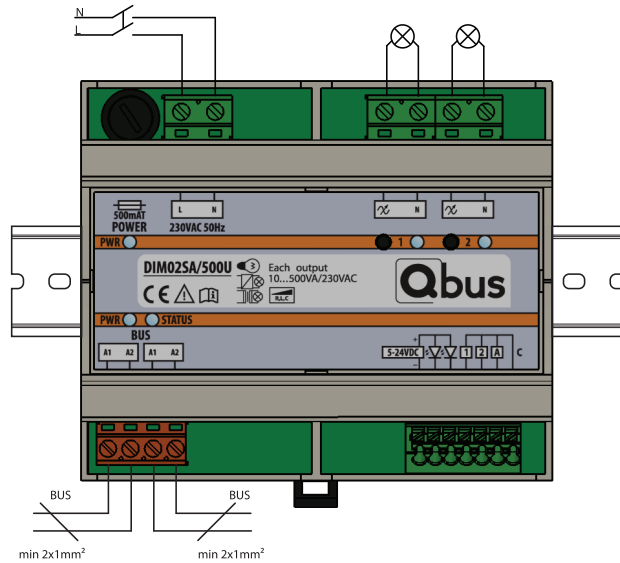## Four channels (Stand-Alone) universal dimmer

Product code: DIM04SA/500U

- DIN rail module

- Dims 4 circuits of 10-500VA

- For halogen lamps, electronic and traditional transformers, incandescent lamps, dimmable CFL and 230V LED lamps

- This module can also be used Stand-Alone (without controller) as there are 5 direct inputs on board for the connection of standard push buttons (including an All Off & Panic button)

ANALOGUE CONTROL MODULE

Four channel (Stand-Alone) analogue control module for dimming and/or switching

Product code: ANR04SA

- DIN rail module

- Has 4 outputs that can be used as analogue dimmers (0/1-10V or PWM) or as relay outputs

- This module can also be used Stand-Alone (without controller) as there are 5 direct inputs on board for the connection of standard push buttons (including an All Off & Panic button)
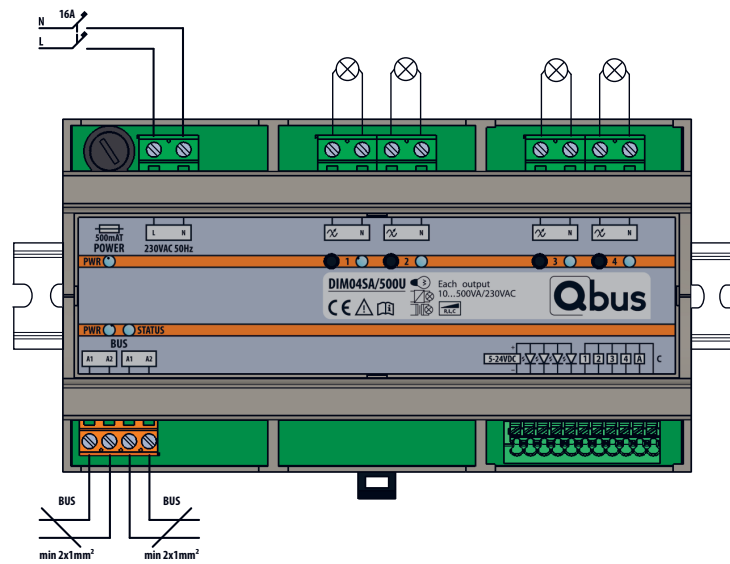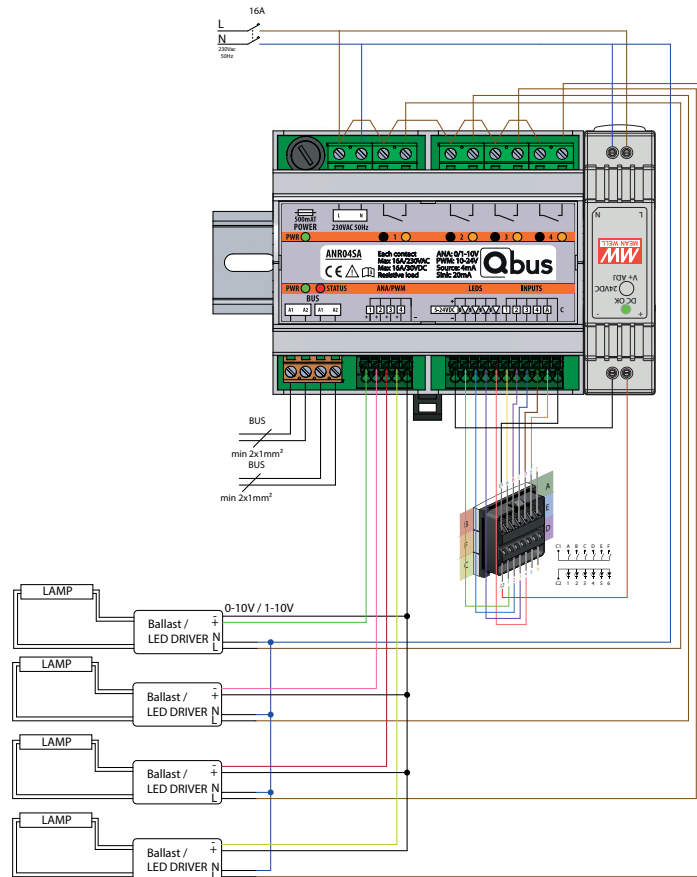
SWITCHES / PUSH BUTTONS

Stand-Alone Tastu design switch in fingerprint-proof glass with 2 or 4 push buttons

Product code: SWC02SA, SWC04SA

The Tastu® has no mechanical push buttons, but operates with touch sensors that are integrated in the glass plate. With these capacitive touch surfaces the users can control all the technologies in that room, that floor or in that building. These Tastu® switches are fingerprint-proof: a special coating on the glass switch prevents fingerprints on the glass. The Stand-Alone version of the Tastu® can be used with the Qbus Stand-Alone modules and other impulse relays.

Cover plates

The Tastu® cover plates are simultaneously contemporary and timeless, functional and stylish like the Tastu® switches. Like the switches they give a slightly floating feeling for the distance between the wall and the glass. The Tastu® cover plates are available for Niko switch equipment and for System 55 (Schneider/Merten, Gira, JUNG) switch equipment and always in single, double and treble horizontal version.

Internal circuit tastu SA
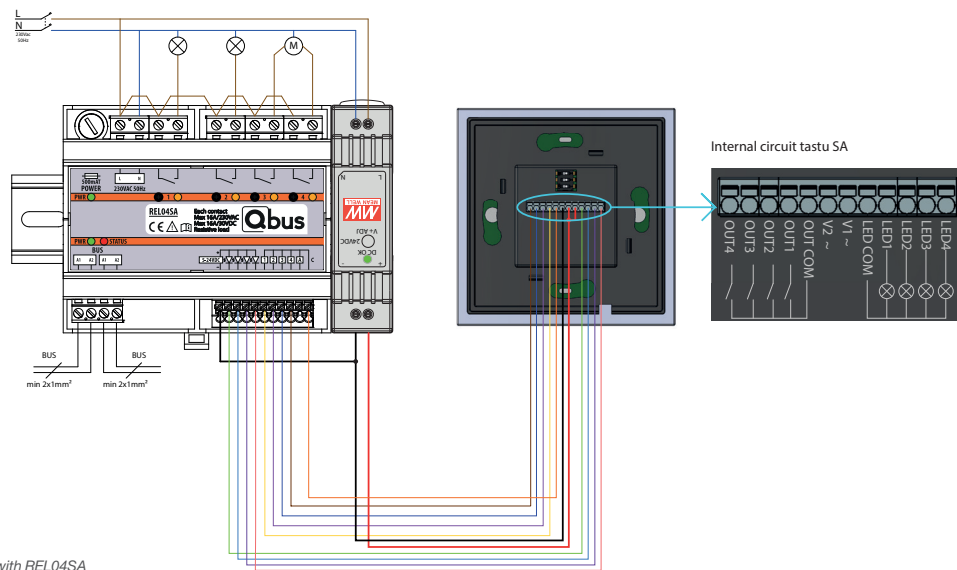
Tastu SA wiring with REL04SA

230Vac
50Hz

Internal circuit tastu SA
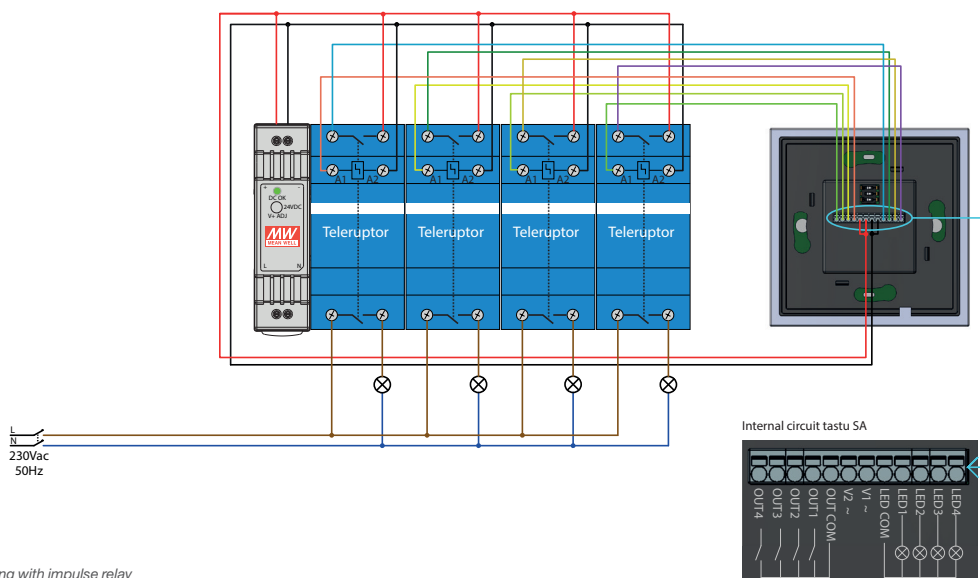
Tastu SA wiring with impulse relay

Full Qbus

A Full Qbus installation seamlessly integrates heating, cooling, ventilation, safety, lighting, screens, gates, audio and much more. The Qbus system is easy to install, easy to control and operated from any switch, tablet, smart phone or PC and can always be expanded further.

More comfort with less energy tailor-made to your building

The Qbus modules form a single and simple integrated system instead of separate control solutions. All the various technologies within the home or the building are seamlessly connected via a 2-wire bus cable. The communication between all these technologies is controlled by a smart, central Qbus controller.

Qbus provides an endless platform of products and solutions that meet your specific needs and thus the most demanding requirements of the customer.

Lighting Socket Shutter

Dimmers Dimmers Dimmers

- Qbus controllers: the very core of the installation. For small and large installations.

- Relay modules to switch lighting, screens, ventilation, ... Choice of On/Off, Up/Down, timers, ...

- Dimmer modules for the dimming of all possible dimmable lighting, fans, valves, … For all light sources and different control protocols (universal, 0/1-10V, DALI, DMX, …)

- Smart switch (Niko design)

- Couple module for regular switch or push button

- Smart switch with motion and light sensor (Bticino design)

- Connection for Qbus Cloud, Ubie, touch screens, …

- ViZiR Room Controller

- Outdoor detector motion, light, temperature

- Air quality sensor: measures CO_2, humidity, temperature

Shutter
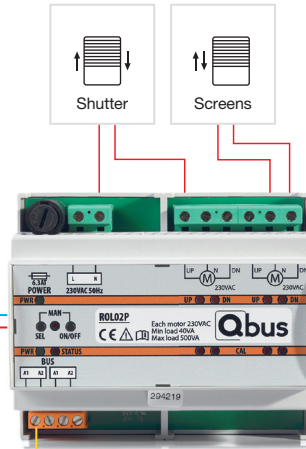
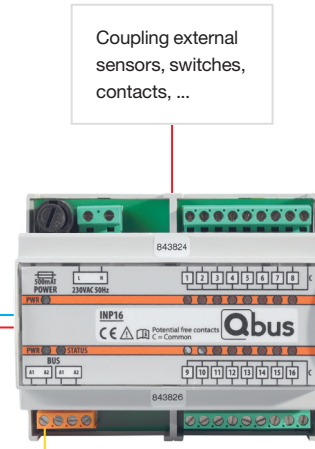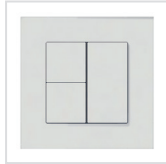Screens

Coupling external sensors, switches, contacts, ...

- Interface module with HVAC systems such as Daikin, Duco, Renson, Toshiba, …

- Motor control with positioning: for screens / shutters / blinds / curtains with or without slat control

- Input modules for linking external input contacts

- Smart switch with temperature sensor (JUNG design)
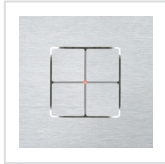
- Smart switch (CJC design)
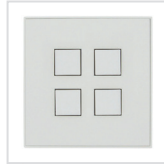
- Smart switch (Lithoss design)
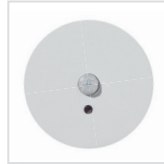
- Motion and light sensor

- Motion and light sensor
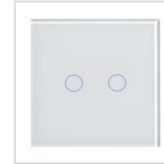
- Smart switch with temperature sensor (Tastu design)

- Qbus weather station (precipitation, wind speed, luminosity (in east, west or south), twilight)
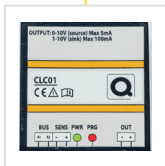
- Constant Light Control module

- Motion and light sensor for integration in skirting boards, closets, …
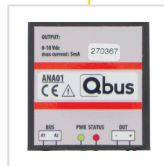
- Decentral analog dimmer
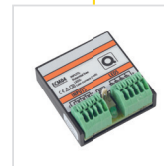
- Energy Counter Module
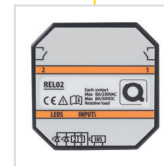
- Decentral relay module for On/Off or Up/Down control

Lighting

Ventilation

Lighting

Heating

Shutter

Controllers

The smart central Qbus Controller is the core of a Full Qbus installation. The controller ensures both the operation and supply of all Qbus modules that are connected to it via the two-wire bus. This two-wire bus has no polarity and can be installed into any architecture (loop, star, tree): it could not be more flexible and easy.

The core of your Full Qbus installation

With a Qbus controller your smart home or building has moods, time settings, logic functions, presence simulation, astronomical clock, event logging, etc. Most controllers also have a network portal through which the installation can be controlled and viewed with the Qbus Cloud.

With this Qbus Cloud the home can be viewed and operated with any platform (iOS, Windows, Android) from anywhere in the world. If desired, your Qbus controller can send e-mails or text messages when the children get home, the water consumption is through the roof or the motion detector has detected an alarm situation with granny.

	CTD01	CTD01E	CTD01E+	CTD02E	CTD03E
Feed	18VDC / 2A (supplied with controller)				
Bus output (per bus)	13.8VDC / 250mA	13.8VDC / 250mA	13.8VDC / 500mA	13.8VDC / 500mA	13.8VDC / 500mA
Typical consumption (zero charge bus)	2W	4W	4W	4W	4W
# modules per controller (approximate)	20	20	40	40 per bus	40 per bus
# bus connections	1	1	1	2	3
Internal fuse	2 AT				
Casing	DIN rail				
Dimensions	4 modules (72mm) + 4 modules (72mm) feed			6 modules (107mm) + 4 modules (72mm) feed	
LED indication	Feed, Temperature, Tension, Power: green = OK; red/orange: see technical sheets. Bus communication: Red = receives data from bus, Green = sends data to bus. UART communication: Green if SD is read, Red if written on SD.				
Communication possibilities	USB	USB & Ethernet	USB & Ethernet	USB & Ethernet	USB & Ethernet
Logic functions	Boolean logic (IF, THEN, ELSE) and Analogue logics (<,>,=,-,+,x,/)				
Number of spheres	92				
Number of clock times	100				
Presence simulation	YES				
Astronomical clock	YES				
On-board memory	8GB SD card with 10 available memory banks (for 10 system configurations)				
Operational temperature	10°C - 50°C				
Temperature in storage	-10°C to 60°C				
Maximum humidity level	93%, no condensation				
Protection level	IP20, EN60529				
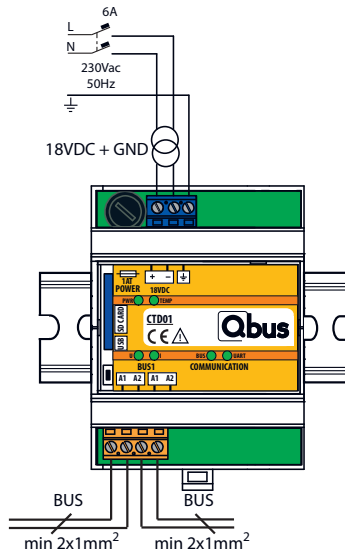
Mini controller

Product code: CTD01

- 1 bus output with maximum charge of 250mA

- USB port for programming
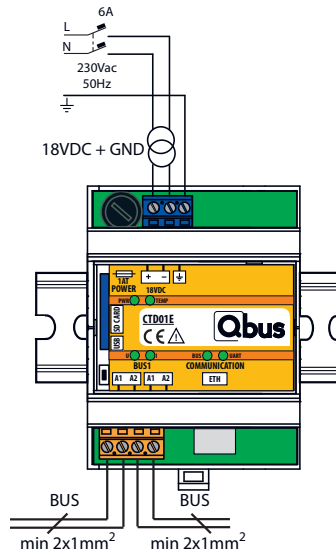
Mini controller with network port for Qbus Cloud

Product code: CTD01E

- 1 bus output with maximum charge of 250mA

- USB-port and network port for programming and operation and visualisation via Qbus Cloud
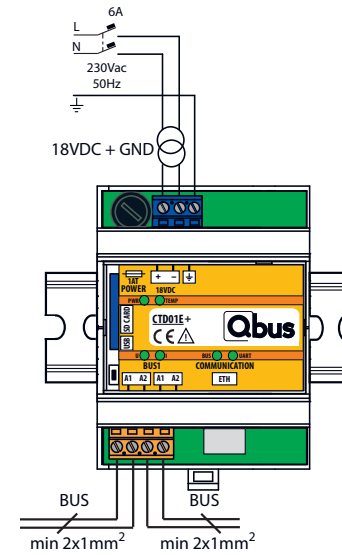
Basic controller with network port for Qbus Cloud

Product code: CTD01E+

- 1 bus output with maximum charge of 500mA

- USB-port and network port for programming and operation and visualisation via Qbus Cloud
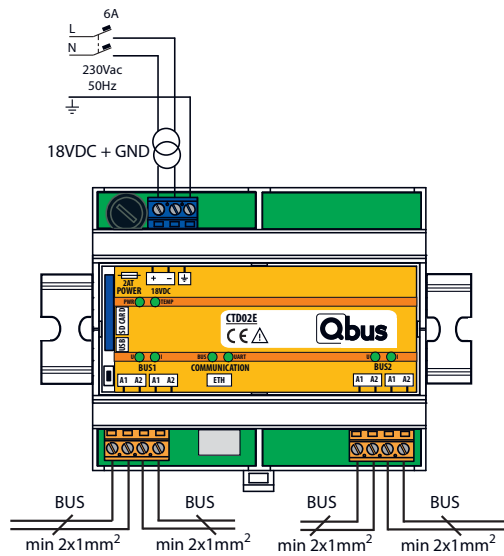
Full controller with network port for Qbus Cloud

Product code: CTD02E

- 2 bus output with each maximum charge of 500mA

- USB-port and network port for programming and operation and visualisation via Qbus
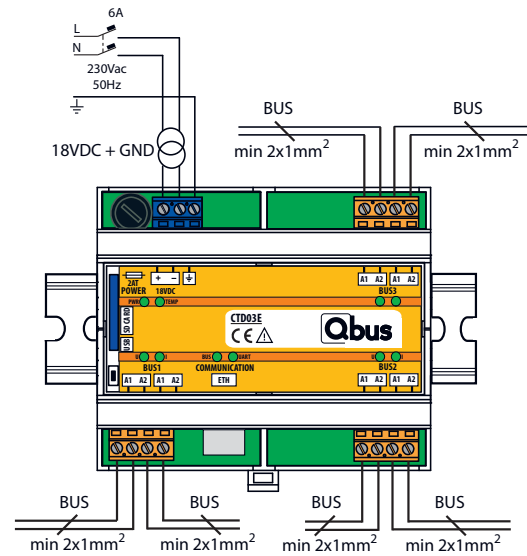
Maxi controller with network port for Qbus Cloud

Product code: CTD03E

- 3 bus output with each maximum charge of 500mA

- USB-port and network port for programming and operation and visualisation via Qbus

Relay modules

Relay or switch modules switch outputs. These modules are used for the control of lighting, ventilation, screens, heating, gates, ...

Choose the function of your output module

The Qbus relay modules have no specific function – it is set according to the application they are used for. A relay output can be used as an ordinary on/off switch, but also as a push button output that is only active when the button is pressed (e.g., a door bell) or as a timer that only switches on the output for a specific time. It is even possible to operate motors with relay outputs (curtains, screens, sun awnings,...).

	REL02	REL04SA	REL08
Feed	Bus feed	230VAC, +/-10%, 50Hz	
Max. fuse	8A	16A/2P	
Bus charge	Resting without LEDs 5mA Resting with LEDs 8mA. At full charge LEDs 16mA, with LEDs 20mA.	10mA at rated current 13.8V	
Typical consumption (all outputs active)	8mA on the bus	4.15VA	6.45VA
Internal fuse	-	500mAT single-phase	100mAT single-phase
Breakdown voltage	4,500V, 1.2 x 50 μs	tested on 3kVAC	
Casing	Plastic casing for integration in integrated box	DIN rail	
Type	OUT1 - OUT2: 2 potential-free NO contacts	OUT1 - OUT4: 4 potential-free NO contacts	OUT1-OUT8: 8 potential-free switch contacts
Maximum power	8A at 230VAC / 30VDC	16A at 230VAC; 16A at 30VDC	
Maximum charge	Resistive charge (cosϕ = 1) 8A at 230VAC / 30VDC. Inductive charge (cosϕ= 0.4; L/R = 7ms) 3.5A at 230VAC / 30VDC.	Resistive charge (cosϕ = 1) 16A at 230VAC / 30VDC. Inductive charge (cosϕ = 0,4; L/R = 7ms) 8A at 230VAC / 30VDC.	
Maximum switching voltage	250VAC, 125VDC	Resistive charge (cosϕ = 1) 3680VA at 230VAC / 480W at 30VDC. Inductive charge (cosϕ = 0,4 ; L/R = 7 ms) 1840VA at 230VAC / 240W at 30VDC.	
Set / reset time	15ms max. / 5ms max.	15ms max. / 5ms max.	
Duration	Min. 100,000 operations	20 million mechanical operations	
Duration	-	-	
LED indication	-	Green LED = feed. Red LED = 2 seconds during start-up and during programming. Orange LED OUT1-OUTX continued at = OUT1 - OUTX active. Orange LED OUT1 - OUTX flickers = OUT1-OUTX in manual override.	
Number of inputs	2 potential-free contacts with LED indication	5 potential-free contacts, including All On/All Off Out-input. With additional 5-24VDC feed also LED indication of the inputs.	-
Input function (can be configured with configuration software)	Push button: open when inactive (e.g. door bell). Normal Open: open when inactive. Normal Closed: closed when inactive. Switch: on/off function.		-
Dimensions	12mm x 49mm x 49mm	6 modules (107mm)	9 modules (161mm)

2 channel relay module

Product code: REL02

- Contains 2 x 8A connected outputs and 2 inputs including LED feedback

- This module fits into an integrated box and is fed by the Qbus bus
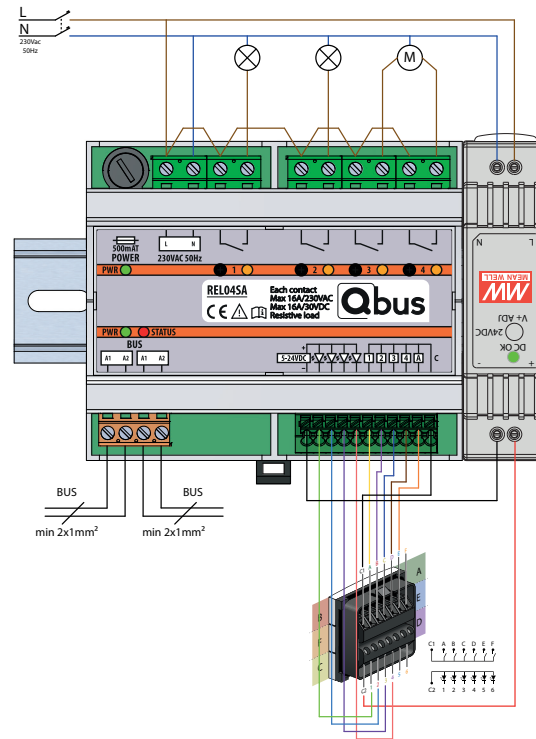
4 channel relay module

Product code: REL04SA

- DIN rail module

- Contains 4 x 16A connected outputs and 5 inputs including 1 All Off / Panic button

- Can also be used to control motors

- Module can be used both Stand-Alone and combined with a controller (Full Qbus)

L 16A
N
230Vac
50Hz

UP   DOWN

M

100mAT
L N
POWER 230Vac 50Hz
PWR
MAN
SEL ON/OFF
PWR STATUS
BUS
A1 A2 A1 A2

1 2 3 4

REL08
CE
Each contact
Max 16A
Resistive load

Qbus

5 6 7 8

BUS   BUS

min 2x1mm^2 min 2x1mm^2

UP   DOWN   UP   DOWN

M   M
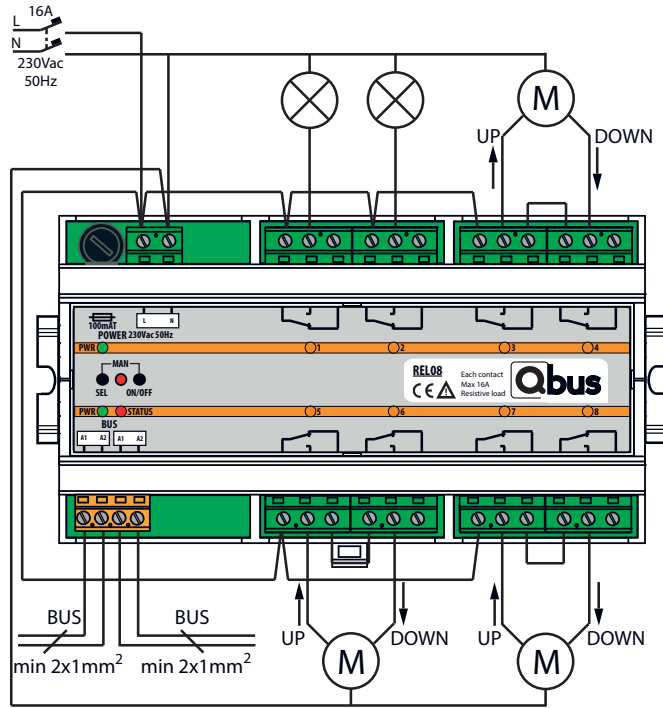
8 channel DIN rail relay module

Product code: REL08

- DIN rail module

- Contains 8 x 16A connected outputs

- Can also be used to control motors

Motor control modules

With a Qbus system the rolling blinds can be closed both centrally and de-centrally, both with and without positioning.

Controlling motors, positioning slats

With the Qbus motor control modules, standard 230V motors can be operated; you control your curtains or rolling blinds and screens and sun awnings can be automatically positioned according to sunlight, rain or wind, etc.

	ROL01	ROL02P	REL04SA / REL08
Feed	Bus feed	230VAC, +/-10%, 50Hz	
Max. fuse	6A	16A/2P	These modules can also be used to drive motors. Via the settings two outputs can be internally linked to operate UP and DOWN. See technical details with Link modules.
Bus charge	Resting without LEDs 5mA. Resting with LEDs 8mA. At full charge LEDs 16mA, with LEDs 20mA	10mA at rated current 13.8V	
Typical consumption (all outputs active)	5mA bus	4.37VA	
Internal fuse	-	6.3VA	
Breakdown voltage	4,500V, 1.2 x 50 µs	Tested on 3kVAC	
Casing	Plastic casing for integration in integrated box	DIN rail	
Type	UP - DN: 230V. UP - DN: internally linked contacts	UP1 /22 230V. UP1 - DN1 and UP2. DN2: internally linked contacts.	
Maximum power	8A at 230VAC / 30VDC	16A at 250VAC	
Maximum charge	Resistive charge (cosϕ = 1) 8A at 230VAC / 30VDC. Inductive charge (cosϕ = 0.4; L/R = 7ms) 3.5A at 230VAC / 30VDC.	Minimum charge 40VA at 230VAC. Maximum charge 500VA at 230VAC.	
Maximum switching voltage	250VAC, 125VDC	250VAC	
Duration	Min. 100,000 operations	20 million mechanical operations	
Duration	-	Minimum 6 seconds, maximum 22 minutes	
LED indication	-	Green LED = feed. Red LED = 2 seconds during start-up and during programming. Red LED = 2 seconds during start-up and during programming. Red LED "CAL" on: rolling blind not yet calibrated. Orange LED UP/DN: Up 1 / Down 1; Up 2 / Down 2.	
Number of inputs	2 potential-free contacts with LED indication	-	
Input function (can be configured with configuration software)	Push button: open when inactive (e.g. door bell). Normal Open: open when inactive. Normal Closed: closed when inactive. Switch: on/off function.	-	
Dimensions	12mm x 49mm x 49mm	6 modules (107mm)	

Decentralised control module for 1 motor
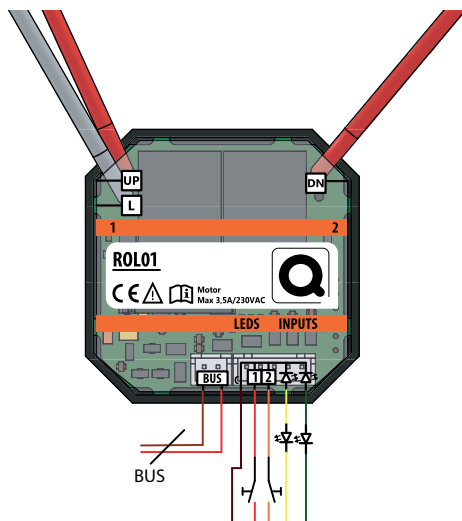
Product code: ROL01

The decentralised ROL01 module takes power from the bus and can easily be installed in the proximity of the motor. The ROL01 module also has two inputs on board (with two LED outputs) through which push buttons (with LED feedback) window, door and other contacts can be connected.
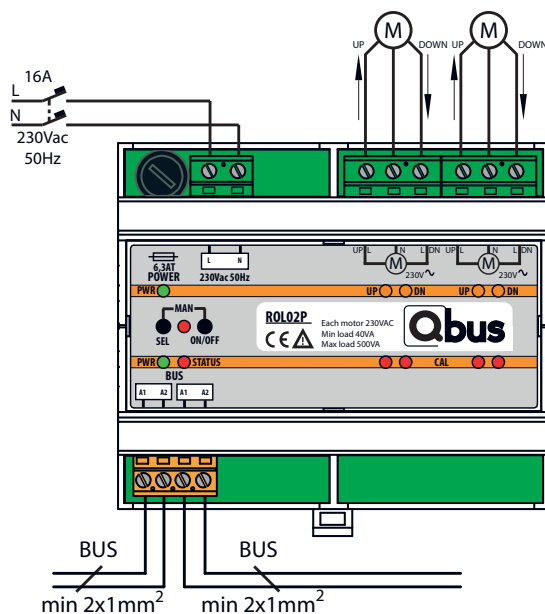
Control module for 2 motors (with or without slats), with positioning

Product code: ROL02P

On a ROL02P DIN rail module two 230V motors can be connected for the operation of rolling blinds, curtains, ... Every motor can be set between 0% and 100% of the running time; that setting can then be used in moods and time settings.

An internal calibration mechanism in the ROL02P ensures that every time the rolling blind or curtain is fully lifted or lowered, it is calibrated. That ensures that the requested position also remains the same after time.

Dimmers

Every light source can be dimmed with an extensive range of dimmers. Qbus has dimmers that can be used on their own, or dimmers that can only be used in a Full Qbus installation.

Create moods and save energy

With the Stand-Alone dimmers incandescent lights, halogen lamps, energy saving lamps, LED lamps and LED strips can be dimmed. DALI or DMX frames can also be controlled in a Full Qbus installation.

There are several options for dimmer control:

• With a 1-button dimmer you use fewer buttons, but the cycle must always be completed: starting with 0% to 100% and back to 0%

• With a 2-button dimmer the Up and Down button must be used but the cycle can be reversed mid-flow (does not have to go from 0% to 100% or vice versa)

If a button is held down continuously, there is a transmission time from zero to maximum 5.1 seconds. A short pulse (0.3 sec) brings the dimmer from zero to maximum in 2.5 seconds.

The maximum value of the dimmer can also be set between 20% and 100%. The output can also be dimmed automatically after a set time from 1 second to 255 minutes. If the dimmers are controlled via a mood, the increasing and lowering time can be independently time from 2.5 seconds to 20 minutes.

The Stand-Alone dimmers can be set in such a way that the latest dimmer setting is memorised, which means that the next time the dimmer is activated it automatically goes back to the latest setting.

	DIM02SA/500U	DIM04SA/500U	ANR04SA	
	Universal dimmer (phase cuts, dimmable energy saving lamps, dimmable LEDs), can be used both Stand-Alone and in a Full Qbus installation. Mixed charge is not recommended.		Can operate 4 analogue dimmers (0/1-10V or PWM) of 4 relays or a combination of both. Every analogue output controls a relay contact that switches off when dimmer is set to 0%. In Stand-Alone mode the outputs are set to 0-10V dimmer mode as standard with minimum dimming level 10%.	
Feed	230VAC, +/-10%, 50Hz			
Max. fuse	16A/2P			
Bus charge (full charge)	10mA at rated current 13.8V			
Max. own use	4.5VA		4.37VA	
Internal fuse	500mAT single-phase			
Breakdown voltage	Tested at 3kV			
Casing	DIN rail			
Type	OUT1 - OUT2: dimmable outputs 500VA/output. In Stand-Alone mode the outputs are set to conventional transformers as standard with minimum dimming level 10%.	OUT1 - OUT4: dimmable outputs 500VA/output. In Stand-Alone mode the outputs are set to conventional transformers as standard with minimum dimming level 10%.	OUT1-OUT4: analogue dimmer mode or ON/OFF mode can be set with push buttons on the module in Stand-alone, or via configuration software in Full Qbus. In Stand-Alone mode the outputs are set to 0-10V dimmer mode as standard with minimum dimming level 10%.	
Maximum charge	Incandescent lamps, halogen lamps with electronic transformer: max. 500VA per output. Halogen lamps with magnetic transformer: max. 400VA per output. Dimmable 230V LEDs and energy saving lamps: max. 100VA per output.		Resistive charge (cosϕ = 1) 16A at 230VAC / 30VDC. Inductive charge (cosϕ = 0.4; L/R = 7ms) 8A at 230VAC / 30VDC.	
Minimum charge	Incandescent lamps, halogen lamps with electronic transformer: min. 10VA per output. Dimmable 230V LEDs and saving lamps: min. 10W per output.		-	
Maximum power	-		16A	
Maximum switching voltage	-		Resistive charge (cosϕ = 1) 3680VA at 230VAC / 480W at 30VDC. Inductive charge (cosϕ = 0.4; L/R = 7ms) 1840VA at 230VAC / 240W at 30VDC.	
Duration	-		20 million mechanical operations	
LED indication	Green = feed. Red = 2 seconds at start-up, the during programming. This LED will also flicker when choosing the charge and minimum dimming level in Stand-Alone mode. Orange LED OUT: continued on = output active. Orange LED OUT: flickers = output in safe mode (overload, overheating). Red LEDs Error 1-4 on = Overload or short circuit.			
Manual control	To select the respective charge and minimum dim level. See the leaflet or the technical sheet of the module concerned.			
Number of inputs	3 potential-free contacts, including All On/All Off Out-input. With additional 5-24VDC feed also LED indication of the inputs.	5 potential-free contacts, including All On/All Off Out-input. With additional 5-24VDC feed also LED indication of the inputs.		
Input function	Push button: open if not active (e.g. door bell). Standard setting in Stand-Alone mode. Normal Open: open if inactive. Normal Closed: closed if inactive.		Push button: open when inactive (e.g. door bell). Normal open: open when inactive. Normal Closed: Closed when inactive. Switch: on/off function.	
Dimensions	6 modules (107mm)	9 modules (161mm)	6 modules (107mm)	

| ANA04	CLC01	ANA01	QDI
Analogue dimmer modules (0/1-10V)	Constant Light Control Dimmer with light sensor	Analogue dimmer modules (0-10V)	For connection Qbus system with DALI
	Bus feed		Bus feed. Additional feed for DALI system required (QDIPWS).
	-		-
	15mA at rated current 13.8V		10mA at rated current 13.8V
2.3VA	-		10mA at rated current 13.8V
500mAT	-		-
	-		
	Plastic casing non DIN rail		DIN rail
4 selectable outputs (via Qbus configuration software): 0-10V (sourcing - max 10mA) or 1-10V (sinking - max 100mA)	1 selectable output (via System Manager Software): 0-10V (sourcing - max 5mA) or 1-10V (sinking - max 100mA)		DALI-bus output can operate 64 separate DALI-addresses and 16 groups
Max. 10mA/output	Max. 5mA/output	Max. 5mA	64 DALI-addresses. Max. sink current 250mA.
-	-		
	-		
	-		
	-		
	Green LEDs = feed of respectively DALI-bus and Qbus. Red LED = 2 seconds during start-up and during programming.		
Orange LED OUT1-4 flickers = manual control. Orange LED OUT1-4 continued at = OUT1-4 active.	-		
For manual override - See the leaflet or the technical sheet of the module concerned	-		
	-		
	-		
6 modules (107mm)	51mm (H) x 47mm (B) x 14mm (D)		2 modules (36mm)
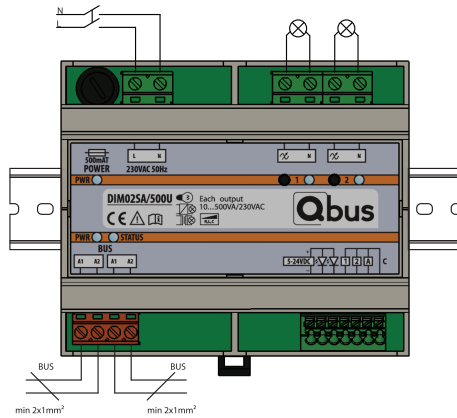
Two channels (Stand-Alone) universal dimmer

Product code: DIM02SA/500U

- DIN rail module to dim 2 circuits of 10-500VA. For halogen lamps, electronic and traditional transformers, incandescent lamps, dimmable CFL and 230V LED lamps. This module can also be used Stand-Alone (without controller) as there are 3 direct inputs on board for the connection of standard push buttons (including an All Off & Panic button).
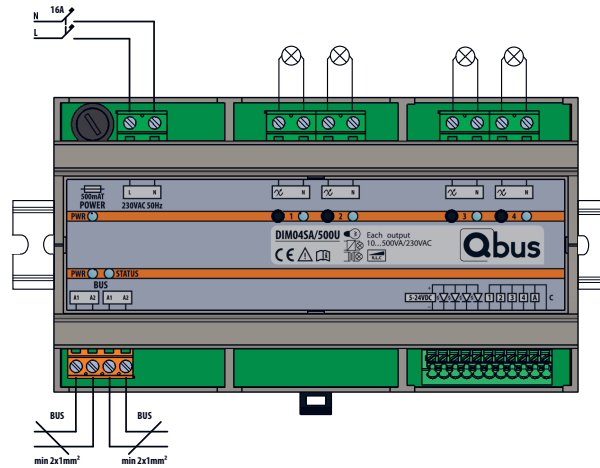
Four channels (Stand-Alone) universal dimmer
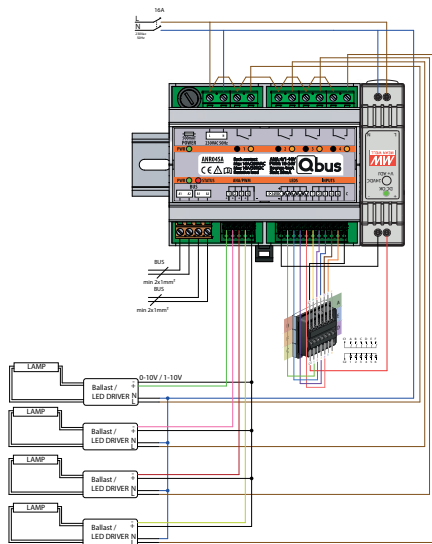
Product code: DIM04SA/500U

- DIN rail module to dim 4 circuits of 10-500VA. For halogen lamps, electronic and traditional transformers, incandescent lamps, dimmable CFL and 230V LED lamps. This module can also be used Stand-Alone (without controller) as there are 5 direct inputs on board for the connection of standard push buttons (including an All Off & Panic button).

Four channels (Stand-Alone) analogue control module for dimming and/or switching

Product code: ANR04SA

- DIN rail module

- Has 4 outputs that can be used as analogue dimmers (0/1-10V or PWM) or as relay outputs. This module can also be used Stand-Alone (without Controller) as there are 5 direct inputs on board for the connection of standard push buttons (including an All Off & Panic button).

Four channels analogue DIN rail dimmer

Product code: ANA04

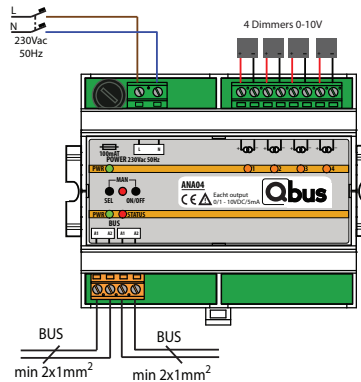- Analogue dimmer module

- DIN rail module to connect 4 analogue dimmers with feeds of 0-10 or 1-10V
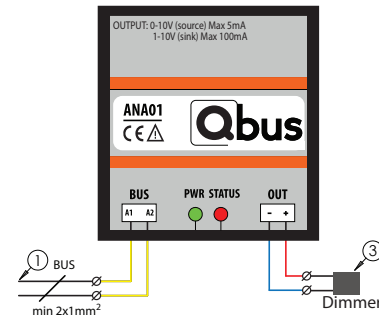
Decentralised one channel analogue dimmer

Product code: ANA01

- 0/1-10V dimmer with 1 output that is decentralised connected to the bus

OUTPUT: 0-10V (source) Max 5mA
1-10V (sink) Max 100mA

CLC01

BUS   SENS PWR PRG   OUT

① BUS

min 2x1mm²

②

④ Light sensor

③

Dimmer 0-10V / 1-10V

QDIPWS
DALI Power Supply

Qbus

QDI01

BUS   min 2x1mm²   BUS   min 2x1mm²

DALI-
DALI+

DALI BALLAST

N
L

DALI-
DALI+

DALI BALLAST

N
L

16A

L
N
230Vac
50Hz
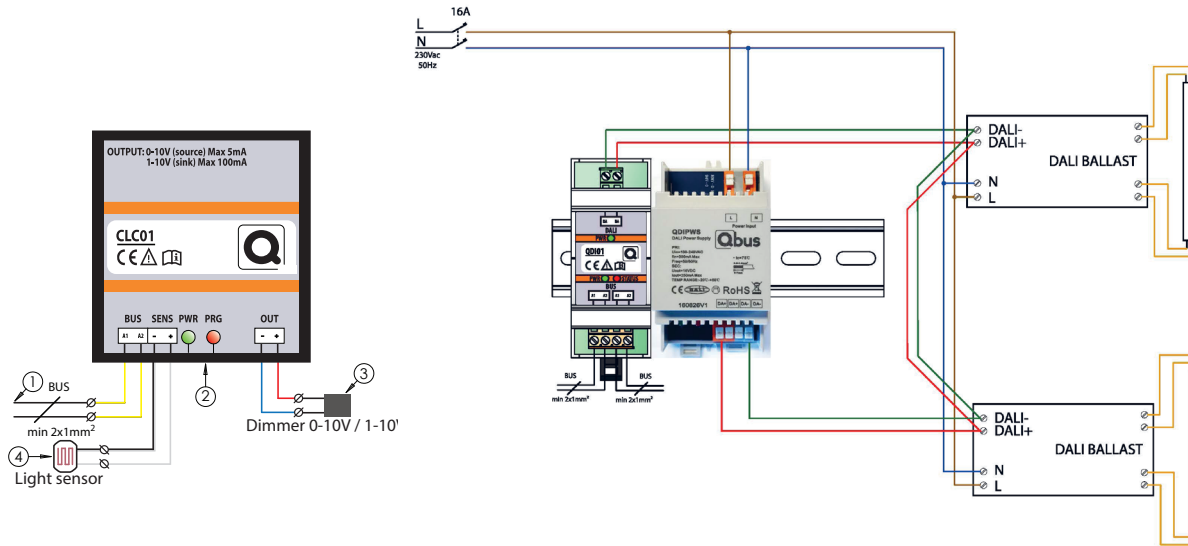
Decentralised constant light control dimmer

Product code: CLC01

- Decentralised module powered by the bus, with a light sensor that continuously measures the light level. The difference between the desired and actual light level is then adjusted by the CLC01 by dimming the connected lighting more or less.

Qbus Dali dimmer

Product code: QDI01

- DIN rail Module to connect the Qbus system to a DALI-system (max. 64 addresses). Allows easy control and visualisation via the familiar Qbus control panels (switches, detectors, Cloud, EQOmmand ...) a DALI system.

Qbus Dali power supply

Product code: QDIPWS

- Power supply for the DALI system

Input modules

Via input modules external contacts such as standard switches, window and door contacts, many types of detectors, garage doors and the like can be connected to the Qbus system. And for the reading of data from external meters, we have designed the Energy Counter Module.

Making connections & measuring

Input modules exist both in DIN rail format to be installed in the cabinet and in a smaller size to be installed in a wall box.

The Energy Counter Module can be used for storage of green energy certificates, optimisation of use or simply to know what happens when in your building.

|	INP02	INP04	ECM04	INP08	INP16	INP08/230
Feed	Bus feed			230VAC, +/-10%, 50Hz		
Max. fuse	-			6A/2P		
Bus charge	10mA at rated current 13.8V. If external LEDs connected 15mA.			10mA at rated current 13.8V	20mA at rated current 13.8V	10mA at rated current 13.8V
Typical consumption	-			2.3VA		
Internal fuse	-			500mAT		
Breakdown voltage	-			Tested on 3kVAC		
Casing	Plastic casing for integration in integrated box			DIN rail		
Number of inputs	2 potential-free	4 potential-free	4 potential-free inputs for pulse meters	8 potential-free	16 potential-free	8 optically divided inputs (12VAC/DC or 230VAC)
Input function (can be configured with configuration software)	Push button: open when inactive (e.g. door bell). Normal Open: open when inactive. Normal Closed: closed when inactive. Switch: on/off function.					
LED indication	Green LED = feed. External LEDs can be connected on the inputs to display the status of the input.			Green LED = feed		
				Red LED = 2 seconds during start-up and during programming		
				Orange LED 1-8: if contact closed	Orange LED 1-16: if contact closed	Orange LED 1-8: if contact active
Dimensions	41mm (H) x 40mm (B) x 12mm (D)			6 modules		9 modules
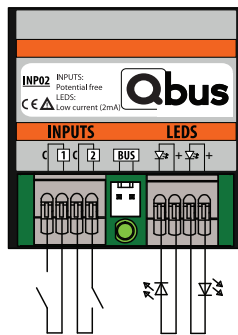
Decentralised module with 2 inputs

Product code: INP02

2 potential-free contacts (e.g. push buttons) and 2 LEDs can be connected to the INP02. These modules fit into an integrated box for switches and are an ideal solution to connect standard push buttons directly to the bus.
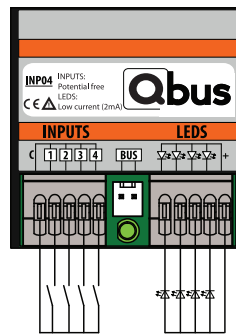
Decentralised module with 4 inputs

Product code: INP04

4 potential-free contacts (e.g. push buttons) and 4 LEDs can be connected to the INP04. These modules fit into an integrated box for switches and are an ideal solution to connect standard push buttons directly to the bus.
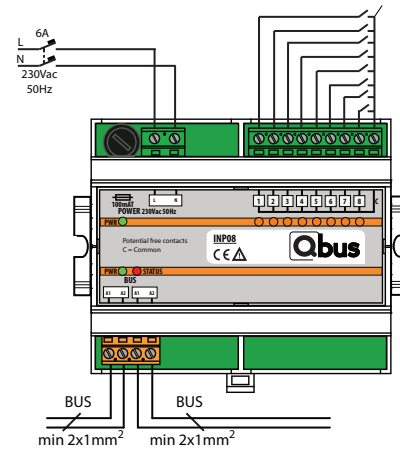
DIN rail module with 8 potential free inputs

Product code: INP08

On this DIN rail module 8 potential free inputs can be connected. Via the Qbus configuration software it can be decided which function every input must have - switch, push button, normal open or normal closed.

DIN rail module with 16 potential free inputs

Product code: INP16

On this DIN rail module 16 potential free inputs can be connected. Via the Qbus configuration software it can be decided which function every input must have - switch, push button, normal open or normal closed.

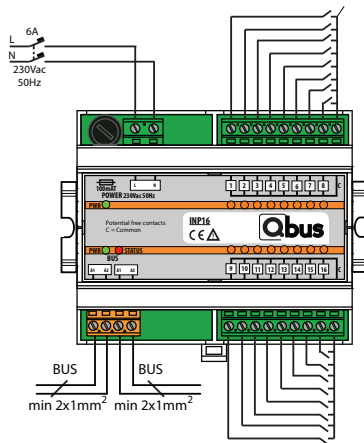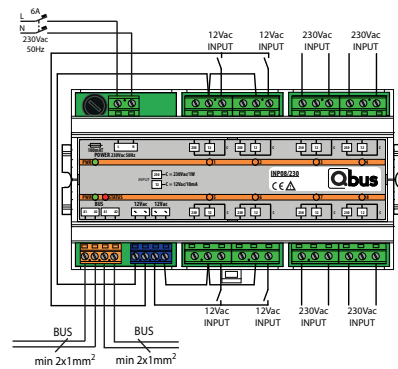## DIN rail module with 8 inputs under voltage

Product code: INP08/230

This DIN rail module is used to connect external contacts under voltage (12VAC/DC or 230VAC - e.g. automatic portals) to the Qbus system.
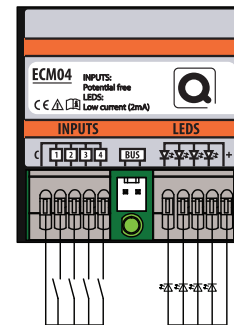
Energy Counter Module

Product code: ECM04

The ECM04 of Energy Counter Module is a module that adds the pulses it receives from a meter. It does not matter from which type of meter these pulses are transmitted as long as the contacts are not under voltage. The ECM04 can receive a pulse every 250ms and add them. The system can also create an alarm for a specific number of pulses, e.g., for a green power certificate for solar panels.

Interfaces

Various control systems are used for lighting only, such as DMX and DALI. But HVAC-systems also speak their own language; by using the appropriate connection modules these can all be integrated in a Qbus system.

Connection to other systems

Via the various Qbus interface modules all types of systems can be linked to the Qbus system to achieve one fully integrated installation, fully controlled in the intuitive, user-friendly Qbus way.

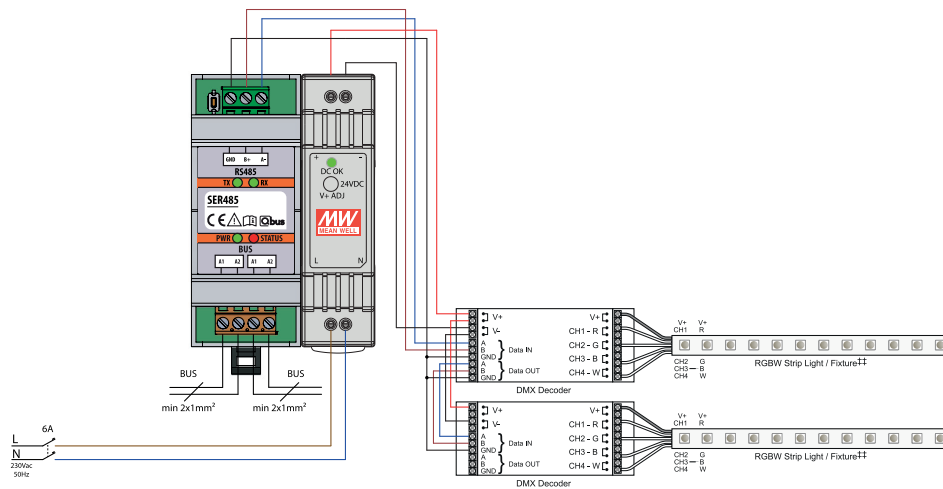|	SER485/DMX	SER485/Modbus	SER485/QWS	SER485/Duco	
	The Qbus DMX interface enables max. 48 connections between Qbus outputs and 254 DMX channels	Module to integrate Qbus with Modbus applications. A number of Modbus-controlled devices are supported as standard, for the rest a customised configuration must be performed. See the technical sheet of the SER485/Modbus for further info.	The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in three directions - east - south - west, morning and evening). The Qbus weather station consists of the Qbus SER485-interface (SER485/APIEN), the weather station itself and the feed of the weather station (24V).	Via this connection module a link can be made between a Qbus installation and the Duco Comfort Plus System or the Ducotronic (Plus) System.	
Feed	Bus feed	Bus feed	SER485/APIEN: bus weather station: 24V feed supplied	Bus feed	
Bus charge (full charge)	35mA at rated current 13.8V				
Max. own use	35mA at rated current 13.8V				
Casing	DIN rail				
Type	DMX output. Per SER485/DMX maximum 12 RGBW-modes, 16 RGB-modes or 24 Warm White Cool White-modes are supported. If these modes must also be operated via the Qbus Cloud every mode is duplicated, so that per SER485/DMX maximum 6 RGBW-modes, 8 RGB-modes or 12 WWCW-modes can be controlled both via switches and via Qbus Cloud.	Various Modbus-operated devices (like Daikin RTD NET, RDT.RA, Toshiba…, Mitsubishi,...) are provided as standard and can be selected from a drop down box. For non-supported Modbus devices a specific configuration is required with intervention of Qbus.	The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in three directions - east - south - west, morning and evening)	Control of Duco Comfort Plus System or the DucoTronic (Plus) System	
Maximum charge	Up to 32 slaves				
Minimum charge	-				
LED indication	Green = feed. Red = 2 seconds at start-up, the during programming. TX: flickers when sending data to the device. RX: flickers when receiving data from Qbus.				
Dimensions	2 modules (36mm)		SER485/APIEN module: 2 DIN modules (36mm). Weather station 77mm (H) x 96mm (W) x 118mm (D). Power supply (25mm wide).	2 modules (36mm)	

	QRI	QDI	UBIE	IRG
	Via this connection module a link can be established between a Qbus installation and the Renson Healthbox II fan unit. This integration module is supplied with the purchase of the Renson Healthbox II with Qbus control.	For connection Qbus system with DALI	The Ubie Internet of Things gateway connects Qbus to KNX and to "Smart Devices" like Sonos, Hue, …	The Infrared generator can generate IR codes from 8 to 120 bits and send these out to devices with an IR receiver. The IR codes can be downloaded from the Qbus System Manager IR database.
	Bus feed	Bus feed. Additional feed for DALI system required (QDIPWS).	5VDC external feed (supplied)	Bus feed
	10mA at rated current 13.8V		-	15mA at rated current 13.8V
	10mA at rated current 13.8V		400mA at 5VDC	15mA at rated current 13.8V
	Plastic casing + SD card	DIN rail	Synthetic material	Synthetic material
	Control of Renson Healthbox II unit	DALI-bus output can operate 64 separate DALI-addresses and 16 groups	For the connection and control of home and building automation systems (Qbus and KNX) to each other and to smart IP-based devices supported by Ubie. See www.ubiebox.com to check which devices are supported.	The IRG04 has 4 output channels that together can send max. 64 different IR codes. The Qbus System Manager can be used to allocate how these codes are distributed over the 4 channels (all 64 codes on one channel, 32 codes on 2 channels each, or 16 codes on all 4 channels).
	-	64 DALI addresses. Max. sink current 250mA.	-	64 IR codes
	-	-	-	-
	NA	Green LEDs = feed of respectively DALI-bus and Qbus. Red LED = 2 seconds during start-up and during programming.	Orange LED = Ubie is starting up. Blue LED = Ubie is connected to Ubie Cloud. Blue + red LED = Ubie is not connected to Ubie Cloud.	Green LED: bus power. Red LED: data transfer / error.
	in Healthbox de Renson	2 modules (36mm)	110mm x 110mm x 35mm	31mm x 54mm x 84mm

Diagram labels: GND B+ A- / RS485 / TX RX / SER485 / CE Qbus / PWR STATUS / BUS / A1 A2 A1 A2 / BUS BUS / min 2x1mm² min 2x1mm² / DC OK 24VDC V+ ADJ / MEAN WELL / L N / L N 6A / 230Vac 50Hz / V+ V- A B GND A B GND / Data IN / Data OUT / DMX Decoder / V+ CH1-R CH2-G CH3-B CH4-W / V+ CH1 / V+ R / CH2 G CH3 B CH4 W / RGBW Strip Light / Fixture

Qbus - DMX connection module

Product code: SER485/DMX

The Qbus DMX interface allows you to control any DMX devices (spots, moving heads, LED panels, LED strips, …) through the Qbus system. Choose the desired colour via a colour wheel on the Cloud, play a "film" with colour transitions or through a Qbus switch, or let your RGBW-strips dance to the Party mood.

Accessoires

Besides the DMX connection module we also provide single components to form a complete package.

DMX Decoder (DEC45/DMX)
The DMX decoder contains 4 channels of each 5A.

LED power supply / driver (LEDPWS/24.120)
LED driver 24VDC, 120W.

RGBW LED strip (LS24/RGBW)
RGWB LED strip of 5 metres, 24V, 72 LEDs per metre, 23W per metre. 5 years guarantee.

LEDPACK - LEDPACK/DMX
Pack with all the components required to create additional mood through colour lighting. Available in a package with Qbus DMX interface (LEDPACK/DMX: Qbus DMX interface, RGBW LED strip, LED power supply, DMX decoder) or in a package without Qbus DMX interface (LEDPACK: RGBW LED strip, LED power supply, DMX decoder).

GND
B+
A-

BUS
min 2x1mm²

BUS
min 2x1mm²

Duco Box Focus Modbus

GND
B+
A-

BUS
min 2x1mm²

BUS
min 2x1mm²
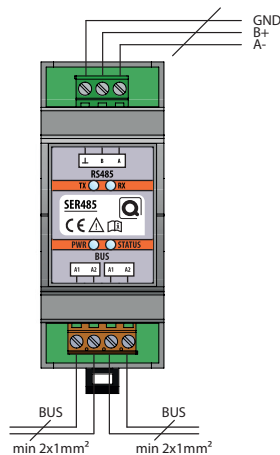
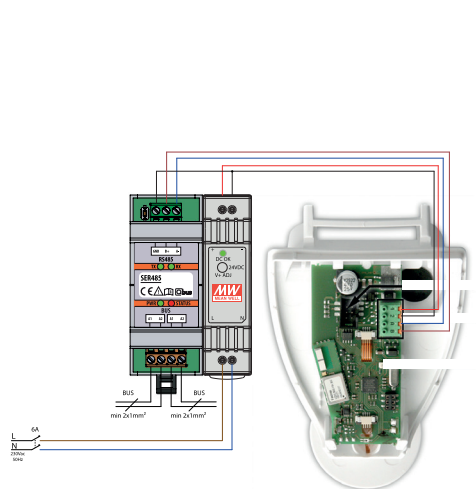## Qbus - Modbus connection module
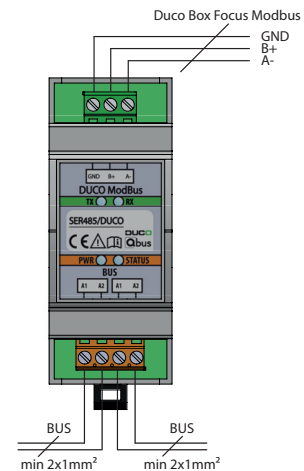
Product code: SER485/Modbus

Module to integrate Qbus with devices that have a Modbus (SER485) portal. The Modbus data of various devices (Daikin, Toshiba, Mitsubishi, Fujitsu, Priva, Robur) are integrated as standard in the Qbus module, for the rest the code must be added by Qbus. See the technical sheet of the SER485/Modbus for further info.

Qbus weather station

Product code: QWS/APIEN

The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in west, east, south and north direction). Prevents overheating by automatically closing screens on the sunny side, or closes your sun awning if it is too windy. View all this on the Qbus Cloud.

Qbus - Duco connection module

Product code: SER485/DUCO

Via this connection module a link can be made between a Qbus installation and the Duco Comfort Plus System or the Ducotronic (Plus) System. Both Duco systems provide zone-regulated outflow of polluted and/or humid air via a valve system and can be seamlessly integrated in your Qbus installation through the 2-wire bus cable.

Qbus Dali dimmer

Product code: QDI01

- DIN rail Module to connect the Qbus system to a DALI-system (max. 64 addresses). Allows easy control and visualisation via the familiar Qbus control panels (switches, detectors, Cloud, EQOmmand...) a DALI system.
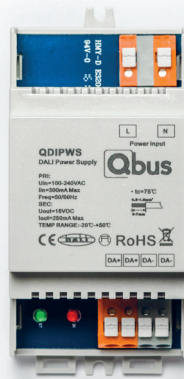
Qbus Dali power supply

Product code: QDIPWS

- Dali system power supply

Qbus Renson Interface

Product code: QRI

- This module can be used to create a link between a Qbus installation and the Renson Healthbox II fan unit. The integration module is supplied on purchase of the Renson Healthbox II with Qbus control, and therefore must be ordered with the Healthbox II.

1

2
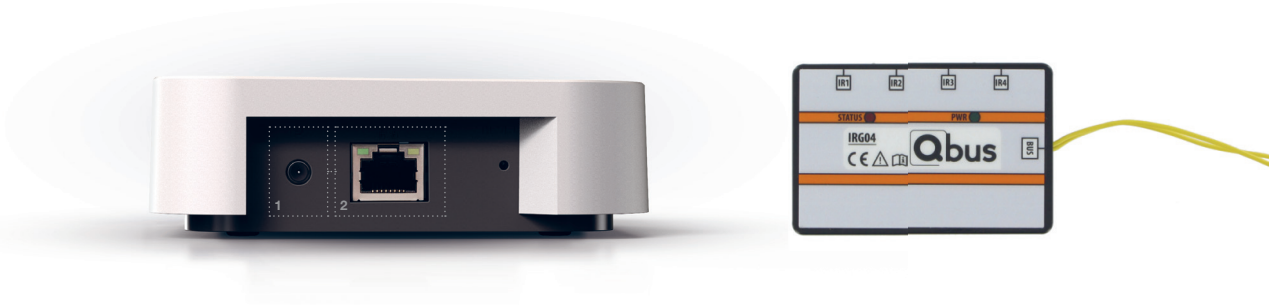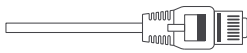
Ubie

Product code: Ubie

- Ubie connects your home and building to automation systems like Qbus and KNX with smart, IP-based devices like Sonos, Hue… Check www.ubiebox.com to see which smart devices are supported.

Infrared generator

Product code: IRG04

- The infrared generator can generate IR codes from 8 to 120 bits and send these out to devices with an IR receiver. The IR codes can be downloaded from the Qbus System Manager IR database. The IRG04 contains 1 IRG-LED. Additional IRG-LEDs can be purchased separately (Product code IRG04-LED).

Switches

The Tastu, Niko, Bticino, Lithoss, JUNG or CJC push buttons of the Qbus smart switches hide a print board full of digital intelligence. With the four push buttons alone the switch can transmit up to eight commands to the controller. The smart switches have standard colour LEDs of which the colour can be chosen or put together by you, and is also available with integrated motion meter, light sensor, temperature sensor or a combination of these options.

Optimal balance between intelligence and cost

Besides the smart switches, standard push buttons can also be connected via central and decentralised input modules, or even directly to the Qbus Stand-Alone modules.

The combination of "smart" Qbus switches and the standard push buttons provides the desired balance between the necessary functions and the cost of your installation.

	Tastu	Niko	Bticino	Lithoss	CJC	Jung
Feed	Bus feed					
Bus charge	1-button 10mA, 2-buttons 15mA, 4-buttons 20mA at rated current 13.8V	10mA at rated current 13.8V				
LED indication	RGB colour LEDs: colour set via Qbus configuration software				White LED behind buttons, 1 RGB LED central for indication HVAC programme	RGB colour LEDs: colour set via Qbus configuration software
Number of controls	1 buttons: 1 interface with 1 RGB LED for control of one Qbus output 2 button: 2 interfaces with 2 RGB LEDs for the control of 4 Qbus outputs (two additional outputs through the second page). 4 button: 4 interfaces with 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	4 buttons with 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	4 buttons with 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	1 button with or without 1 RGB LED for control of one Qbus output 2 buttons with or without 2 RGB LEDs for the control of 4 Qbus outputs (two additional outputs through the second page). 3 buttons with or without 3 RGB LEDs for the control of 6 Qbus outputs (three additional outputs through the second page). 4 buttons with or without 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	1 button: 1 interface with 1 RGB LED for control of one Qbus output. 2 button: 2 interfaces with 2 RGB LEDs for the control of 4 Qbus outputs (two additional outputs through the second page). 4 button: 4 interfaces with 4 RGB LEDs for the control of 8 Qbus outputs (four additional outputs through the second page).	Qbus provides the JUNG pushbutton module (4008TSM) with integrated Qbus print board for connection to two-wire bus. On the 4008TSM various styles JUNG buttons and cover frames (AS500, A, CD500, LS) fit. These buttons and cover frames are not supplied but must be ordered separately from the respective JUNG sale channels.
Version	1, 2 and 4-buttons black or white glass, optional with temperature sensor	4-buttons in available Niko colours, optional with temperature sensor and/or motion and light detector	4-buttons in Bticino Light, Light-Tech, Living, optional with temperature sensor. 3-buttons version with motion and light detector.	See catalogue Lithoss	See catalogue CJC	See technical sheet SWC04/Jung. The basic module 4008TSM is available with temperature sensor as option.
Dimensions	86mm x 86mm	71mm x 73mm (incl. frame, without cover frame. Cover frame not supplied).	44mm x 47mm (without frame, without cover frame. These are not supplied).	Depending on selected version. See respective catalogues.		47mm x 44mm

Tastu® switches

Product code smart switches: SWC0XX/GX
Product code Stand-Alone switches: SWC0XSA/GX

The Tastu® glass switch works on touch sensors concealed in the glass plate. With these capacitive touch surfaces users can control all the technologies in any given room, floor or building. These switches are fingerprint-proof: a special coating prevents smudging the glass.

Tastu® switches exist in both smart switch - optional with integrated temperature sensor (for direction to the Qbus bus) and in Stand-Alone push button version. This Stand-Alone version of the Tastu® can be used with the Qbus Stand-Alone modules and and other impulse relays.

Cover plates

Tastu® cover plates are both contemporary and timeless, functional and stylish like the Tastu® switches. Like the switches they give a slightly floating feeling for the distance between the wall and the glass. The cover plates are available for Niko switch equipment and for System 55 (Schneider/Merten, Gira, JUNG) switch equipment and always in single, double and treble horizontal finishing.

Smart switch	Option temperature sensor	Implementation
1-button (SWC01/XX) 2-button (SWC02/XX) 4-button (SWC04/XX)	2-button (SWC02T/XX) 4-button (SWC04T/XX)	XX = version GB (Glass Black) or version GW (Glass White)

Stand-Alone	Implementation
2-button (SWC02SA/XX) 4-button (SWC04SA/XX)	XX = version GB (Glass Black) or version GW (Glass White)

Qbus switch in Niko version

Product code: SWC04X/XXX

The Qbus print plate is hidden behind the Niko push
buttons. Easy to connect to the Qbus bus, optionally
with integrated temperature sensor, motion detector,
light sensor or a combination of the above. All the push
buttons have adjustable colour LEDs. The handy second
page makes it possible to control 8 outputs in total with a
single 4-button switch. These smart switches are supplied
with buttons and frame, but without cover frame.

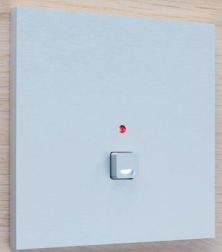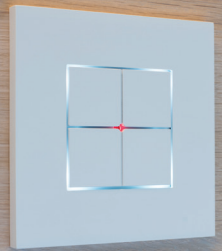| Smart switch	Option temperature sensor	Option motion and light detector	Option temperature, motion and light detector	Implementation
4-button (SWC04/XX)	4-button (SWC04T/XX)	4-button (SWC04M/XX)	4-button (SWC04MT/XX)	XXX = Niko colour. Colours 100, 101, 121, 122 available as standard, other colours on request.

Qbus switch in Bticino version

Product code: SWC04X/XX

The Qbus print plate is hidden behind the Bticino push buttons. Easy to connect to the Qbus bus, optional with integrated temperature sensor, motion detector, light sensor or a combination of the above. All the push buttons have adjustable colour LEDs. The handy second page makes it possible to control 8 outputs in total with a single 4-button switch. The version with motion and light detector has 3 buttons, and can operate 6 outputs (3 on the second page). These smart switches are supplied with buttons, without frame, and without cover plate.

Smart switch	Option temperature sensor	Option motion and light detector	Option temperature, motion and light detector	Implementation
4-buttons (SWC04/X(X))	4-buttons (SWC04T/X(X))	3-buttons (SWC04M/X(X))	3-buttons (SWC04MT/X(X))	X(X) = Bticino colour N (white), NT (grey), L(black)

Qbus switch in Lithoss version

Smart switches

The Qbus print plate is hidden behind the Lithoss push buttons. Easy to connect to the Qbus bus, optionally with integrated temperature sensor, motion detector, light sensor or a combination of the above. All the push buttons have white LEDs; the central LED on the switch is an adjustable colour LED to display the HVAC systems. The handy second page makes it possible to control 8 outputs in total with a single 4-button switch.

The smart Qbus switch in Lithoss version is available with 1, 2, 3 or 4 push buttons, and in any possible Lithoss finishing. Versions with integrated temperature, motion and light detectors are also available. Check the Lithoss catalogue for the versions and product codes.

Qbus switch in CJC version

Smart switches

The Qbus print plate is hidden behind the CJC push buttons. Easy to connect to the Qbus bus, optionally with integrated temperature sensor, motion detector, light sensor or a combination of the above. All the push buttons have adjustable colour LEDs. The handy second page makes it possible to control 4 outputs in total with a single 4-button switch.

The smart Qbus switch in CJC Lara, Lola, Mona and Zita versions is available with 1, 2, 3 or 4 push buttons, and in any possible finish. Versions with integrated temperature, motion and light detectors are also available. Check the CJC catalogue for the versions and product codes.

Qbus switch in JUNG version

Product code: SWC04X/JNB

The smart Qbus switch in JUNG version is a basic component (the 4008 TSM "pushbutton module") with integrated Qbus print plate for connection to the Qbus two-wire bus. Various styles of JUNG buttons and cover frames (AS500, A, CD500, LS), and 1-, 2-, 3- and 4-button finishing sets suit this module. These buttons and cover frames are not supplied but must be ordered separately from the respective JUNG sale channels.

Via the JUNG Graphic Tool it is also possible to have symbols printed on the push buttons. The Qbus smart switches version JUNG are also available with integrated temperature sensor.

Smart switch	Option temperature sensor	Version
Basic module for 1, 2, 3 or 4 buttons (SWC04/JNB)	Basic module for 1, 2, 3 or 4 buttons (SWC04T/JNB)	The Jung AS500, A, CD500 and LS ranges fit on the basic module

SWC04T/JNB basic module (left) and SWC04T/JNB basic module with LS finishing set (3-button) (right)
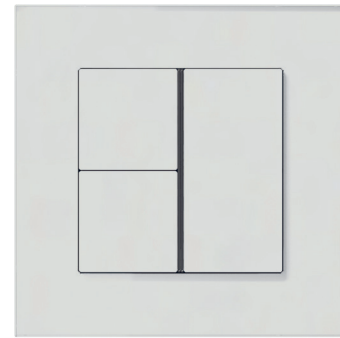
Sensors

Qbus has an extensive range of sensors for the measuring of motion, light, temperature, air quality,… Based on these readings outputs can be controlled to regulate e.g. lighting, heating and cooling based on presence, the ventilation in function of air quality, or save energy by applying daylight management.

Integrated in switches or stand-alone

The Qbus motion, light and temperature sensors are both available as stand-alone, or can be integrated in switches, the air quality sensors are only available stand-alone.

	SEN01T	SEN01/NTC	
Feed			
Bus charge	8mA at rated current 13.8V		
Function & specification	Digital temperature sensor on the Qbus two-wire bus. Measures at 0.5°C resolution and 1°C accuracy in an adjustable range of 63.5°C to -30°C and 93.5°C	NTC temperature sensor with 55CM wire on the Qbus two-wire bus. Measures at 0.5°C resolution and 1°C accuracy in an adjustable range of 63.5°C to -30°C and 93.5°C	
Version	Stand-alone sensor. The pre-drilled Niko blind plates are available separately to finish the SEN01T.	Stand-alone sensor	
Dimensions	24mm diameter x 30mm	41mm (H) x 40mm (B) x 12mm (D)	

	SEN01M	SEN04ML/RMW	MDI	SEN04MLT/EYE	AIR01	SER485/QWS
	Bus feed					SER485/APIEN: bus weather station: 24V feed supplied
	8mA at rated current 13.8V	15mA at nominal voltage 13,8V			35mA at rated current 13.8V	30mA at nominal tension 13,8V
	Motion and light sensor on the Qbus two-wire bus. The motion detector has a diameter of only 9mm, and a detection range of 5 metres in an angle of 100°. Via the Qbus configuration software both a "First" detection level (quantity of motion before it is detected) and a "Maintenance" level (quantity of motion to continue detecting) must be set. Via the light sensor detection can be combined with light level.	Motion detector with adjustable view angle (25°) for ceiling assembly. Integrated light sensor. Module is fed by the Qbus two-wire bus. With installation at 2.4m high the module has a detection range of 6 metres. Via the Qbus configuration software both a "First" detection level (quantity of motion before it is detected) and a "Maintenance" level (quantity of motion to continue detecting) must be set. Via the light sensor detection can be combined with light level. Four separate outputs can be controlled according to motion and/or light level.		Motion detector with adjustable view angle (25°) for outdoor installation (IP65). Integrated light sensor. Module is fed by the Qbus two-wire bus. With installation at 2.4m high the module has a detection range of 6 metres. Via the Qbus configuration software both a "First" detection level (quantity of motion before it is detected) and a "Maintenance" level (quantity of motion to continue detecting) must be set. Via the light sensor detection can be combined with light level. Four separate outputs can be controlled according to motion and/or light level. Integrated temperature sensor present.	The air quality sensors contain a CO_2 sensor, humidity sensor, temperature sensor or a combination of these. Based on the measured values by these sensors the ventilation system can be controlled and the optimal air quality can be obtained without unnecessary energy loss. Resolution 16ppm CO_2, 0,4% RH, 0,5°C accuracy + 75ppm CO_2, + 3% RH, + 1°C	The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in three directions - east - south - west, morning and evening). Resolution wind sensor 0.1m/s, Temperature 0.1°C. Accuracy wind sensor + 15-22%, temperature + 1.5°C, luminosity + 35%.
	Available as stand-alone sensor in white (SEN01MW) and black (SEN01MB) version. The pre-drilled Niko blind plates are available separately to finish the SEN01MW. Also available integrated in white (SEN01MW/RMW) or black (SEN01MB/RMB) metal frame for ceiling assembly, both with springs and leaf springs.	Integrated in white round metal frame with springs for ceiling assembly	Available in Niko version 100, 101, 121 and 122, and in Bticino version N,L,NT. Including frames, excluding cover frames.	Ceiling mounting	AIR01CT: CO_2 and temperature sensor AIR01CHT: CO_2, humidity and temperature sensor AIR01HT: humidity and temperature sensor. Wall mounting.	The Qbus weather station consists of the Qbus SER485-interface (SER485/APIEN), the weather station itself and the weather station power supply (24 V)
	SEN01MX: 23mm x 30mm x 30mm deep. SEN01MX/RMX: 60mm diameter x 30mm deep.	80mm diameter x 65mm deep	Niko 73mm x 71mm. Bticino: 72mm x 73mm.	80mm diameter x 62mm deep	110mm diameter x 27mm thick	SER485/APIEN module: 2 DIN modules (36mm). Weather station 77mm (H) x 96mm (W) x 118mm (D). Power supply (25mm wide).

Design mini motion detector
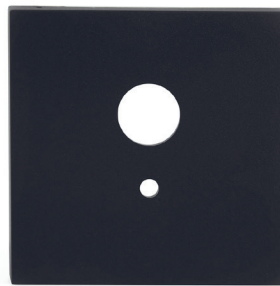
Product code: SEN01M

The stylish detector SEN01M is a small motion detector that can be integrated in skirting boards, cabinets, walls, etc. or integrated in a metal frame. The SEN01M has an integrated light sensor and is available in black or white. For the version without frame pre-drilled Niko blind plates are available.

Design mini motion detector	**Version**
Stand-alone detector (SEN01/MX) Detector in metal frame (SEN01MX/RMX) Pre-drilled Niko blind plate for stand-alone detector (CPL SEN01MW/101 or CPL SEN01MB/122)	X = white (W) or black (B) detector. With frame in white (W) or black (B) frame. White (/101) or black (/122) version.

Swivelling motion detector for wall mounting

Product code: MDI01

The MDI is a motion detector for indoor use, has an adjustable detector and an integrated light sensor and is available in Niko and Bticino design.

Swivelling motion detector for wall mounting	Version
Detector on Niko frame (MDI/XXX)	XXX = Niko colour. Colours 100, 101, 121, 122
Detector on Bticino frame (MDI/X(X))	X(X) = Bticino colour N (white), NT (grey), L(black)

Swivelling motion detector for ceiling mounting

Product code: SEN04ML/RMW

The SEN04ML/RMW is a swivelling motion detector for indoor use in a white metal frame for ceiling mounting.

Motion, light and temperature sensor for indoor and outdoor use

Product code: SEN04MLT/EYE

A versatile detector for ceiling or wall mounting, for indoor or outdoor use (IP65), that detects temperature, light level and motion and operates outputs based on one or a combination of these measured values.

Temperature sensors

Product code: SEN01T / SEN01NTC

Stand-alone temperature sensors for easy and multi-functional integration. These sensors are fed by the bus and make the smart, zone heating control in a building extremely easy.

The SEN01T has a digital temperature sensor, and is available with pre-drilled Niko blind plates for assembly in an integrated box.

The SEN01NTC has a NTC sensor on a 55cm long cable. That sensor is ideal for use in floor heating or other measurements in which the sensor can be embedded.

Air quality sensors

Product code: AIR01

The air quality sensors contain a CO_2 sensor, humidity sensor, a temperature sensor or any combination thereof. Based on the values measured by these sensors the ventilation system can be controlled and the optimal air quality can be obtained without unnecessary energy loss.

Air quality sensors:

* Air quality sensor with CO_2 and temperature sensor (AIR01CT)

* Air quality sensor with CO_2, humidity and temperature sensor (AIR01CHT)

* Air quality sensor with humidity and temperature sensor (AIR01HT)
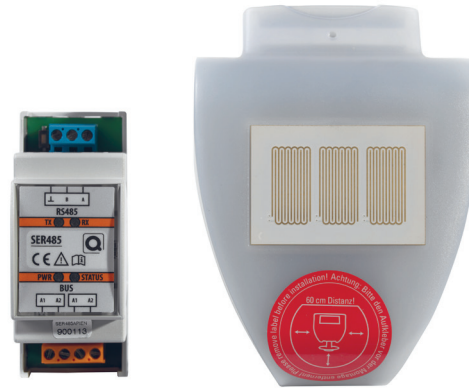
Qbus Weather Station

Product code: SER485/QWS

The Qbus weather station measures temperature, rainfall, wind speed and luminosity (in west, east, south and north direction). Prevents over heating by automatically closing screens on the sunny side, or closes your sun awning if it is too windy. View all this on the Qbus Cloud.

Displays

To control and visualise a Qbus system you can use your own tablets, smart phones, PCs or laptops. You can see and control your installation on any device from anywhere. We also have Qbus-specific displays, from room controllers to 21 inch design screens to which videophone can be linked.

Something for everyone

The ViZiR Room Controller is designed to control a room or floor. The Navigator Alu screens provide an intuitive and high-end overview of the whole home or building.

	ViZiR	TSC5.8	Navigator
Feed	Bus feed	Bus feed or external feed 12VAC/1A	External feed 110-240VAC
Bus charge	35mA at nominal voltage 13.8V	If on bus feed: 150mA at rated current 13.8V. If with external feed: 10mA at rated current 13.8V.	NA (not on bus feed, UTP cable needed)
Function & specification	Control panel with 2.4" OLED screen, to control with capacitive button integrated in frame. Via 10 different menus up to 100 different outputs can be controlled and viewed. The menus and outputs are allocated via the Qbus configuration software. The ViZiR has a direct activation-function by which 1 output or mood can directly be controlled. The ViZiR has an integrated temperature sensor and can thus function as a room thermostat.	Touch screen for wall integration with 5.8" monochrome display. Up to 96 different outputs can be controlled and viewed via 6 different menus. The menus and outputs are allocated via the Qbus configuration software. The TSC5.8 has an integrated temperature sensor and can thus function as a room thermostat. Separate integration box is required for wall assembly.	The Navigator is a Windows10 PC for wall assembly, finished in aluminium and glass. The touch screens are TFT-LCD wide screen, and have dual capacitive touch. The EQOmmand software can run on the Navigator Alu Touch Screens, which allows you to control, visualise your building and manage the energy consumption. Separate integration boxes are required for wall assembly.
Version	Black and white version	Cover frame available in white, black and metallic	Available in 10.2" - 15.6" - 21.5". The 15.6" and 21.5" are available as touch screen alone, as touch screen with integrated extender (to easily connect to an external PC) and with an integrated box PC. All versions are available in Brushed Aluminium or Black Aluminium with black glass. The 15.6" and 21.5" versions have also a "Brushed Aluminium with white glass" finishing. The Navigator Alu Touch Screens have a microphone and speakers and can also be used as videophone screen.
Dimensions	92mm x 92mm	Screen with cover frame: 20 x 196mm, assembly box: 173mm x 138mm x 52mm	10.2" version : front panel 310mm x 186mm, assembly box 276mm (W) x 174 mm (H) x 70mm (D). 15.6" version : front panel 472mm x 277mm, assembly box 452mm (W) x 250 mm (H) x 80mm (D). 21.5" version : front panel 595mm x 340mm, assembly box 587mm (W) x 327 mm (H) x 80mm (D).

ViZiR Room Controller

Product code: VIZ

With the ViZiR Room Controller you can simply and intuitively control an exit, a room, a floor, a flat. The OLED screen shows what you control. The control or scrolling to other outputs is done with the white or black capacitive cover frame.

The ViZiR has a temperature sensor on board, is fed and controlled via the bus and fits in a standard integrated box. The innovative, user-friendly technology of Qbus is now combined with minimalist design that fits into any decor.

- ViZiR Room Controller Black (VIZ/KB)

- ViZiR Room Controller White (VIZ/KW)

Navigator alu gamma touch screens

Product code: NAVALU

High-quality design in aluminium and glass. Available in 10,2 inch – 15.6 inch – 21.5 inch. The two largest versions are available as touch screen alone, as touch screen with integrated extender (to be connected easily to an external PC) and with an integrated box-PC. The version with the extender and the box-PC are interesting to enable the later connection - if necessary - of a heavier or more recent (box) PC and thus make the screens future-proof.

The Navigator Alu Touch Screens have a microphone and speakers and can also be used as a videophone screen. On the Navigator Alu Touch Screens the EQOmmand software can run, which allows you to control, visualise your building and manage the energy consumption.
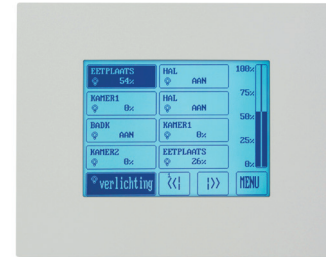
Monochrome display

Product code: TSC5.8

This no-nonsense touch screen can control up to 96 outputs is directly connected to the bus and has an integrated temperature sensor which means it can also be used as a thermostat. Available with white, black or metal-coloured aluminium cover frame.

Software

Qbus has software packages for the configuration of the system, but also for the control, visualisation and evaluation of the building. We also provide software tools to developers to build applications on the Qbus system or to integrate other systems.

Configure, view, control, evaluate, integrate

The Full Qbus system can be configured with the free configuration software. Via the free Qbus Cloud any platform (iOS, Windows, Android) the home can be controlled and viewed from anywhere in the world. The EQOmmand software application allows the integration of videophone and the detailed evaluation of the behaviour of each output.

Configuration software

System Manager III-software: for the configuration of CTD controllers

The System Manager III is the configuration software for the CTD01(E)(+), CTD02E, CTD03E controllers.

Serial Manager II-software: for the configuration of CTD controllers

The Serial Manager II is the configuration software for the CTL16-32-64-256 controllers (2009 or earlier).

This software can be downloaded free of charge from **www.qbus.be**.

Qbus Cloud

With this Qbus Cloud the home can be viewed and operated with any platform (iOS, Windows, Android) from anywhere in the world. If desired your Qbus controller can even send e-mails or SMS messages when the children get home, the water consumption is through the roof or the motion detector has detected an alarm situation with granny.

For more information, check **www.qbuscloud.com.** Qbus Cloud is free with all controllers with network portal.

Ubie Cloud

Via this Ubie Cloud your Ubie can control and visualise the home from anywhere in the world via any platform (iOS, Windows, Android). If desired your Qbus controller can even send e-mails or SMS messages when the children get home, the water consumption is through the roof or the motion detector has detected an alarm situation with granny.

For more information, check **www.ubiecloud.com**. Ubie Cloud is free with Ubie.

EQOmmand

Product code: EQO

The EQOmmand software runs on a PC and enables the intuitive, user-friendly control and visualisation of a Qbus installation. The customer can easily create ground maps, allocate outputs to specific rooms, etc. Standard IP-cameras can also be easily connected to the EQOmmand.

Via the Eco Dashboard-tab in EQOmmand all the outputs can be viewed and compared as diagrams or a meter. Electricity, water, gas, etc. meters can also be viewed. To activate EQOmmand a one-off EQOmmand licence must be purchased.

Ubie

Ubie is an Internet of Things gateway, that links various home and building automation systems like KNX and Qbus to Internet of Things devices Sonos, Hue, Nest, …

Ubie connects your smart devices to each other and to Qbus and KNX home automation

Via a single easy-to-configure and control Cloud-interface an installation with various devices and systems can be controlled from any platform from anywhere in the world (iOS, Windows, Android) as if it were one single system. The "All Off" mood will switch off both all the domotics outputs, the Sonos audio and the Philip Hue lamp. Actions such as setting times, sending e-mails and text messages, managing users etc. can be easily carried out by the end-customer.

Ubie can be used in various ways:

• As extension of a Qbus or KNX-system: Connect your Qbus or KNX domotics system to Sonos, Hue, Nest,... With the "All Off" switch all the outputs of the domotics, but also the Sonos audio system and the Philips Hue lamps. Create your own moods, set times, send e-mails and text messages.

• As Plug & Play KNX user interface: Ubie makes a link between your KNX installation and a plug & play Ubie Cloud application. With the Ubie Cloud app you can control your KNX installation, set moods, times and alarms, manage users etc. from any smartphone, tablet or PC from anywhere in the world.

• As integrator of stand-alone smart devices: Via Ubie it is possible to control Sonos music systems, Philips Hue lighting, smart thermostats, smart door bells as if they were one single unit. Press the "Party mood" button on the smart phone to automatically select the right playlist of the Sonos system, dim the Hue lighting to 50% and to turn up the thermostat slightly.
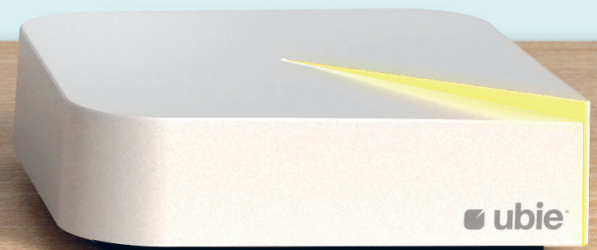
For more information and to buy a Ubie, check **www.ubiebox.com**.

Ubie

Product code: Ubie

Ubie connects your home and building to automation systems such as Qbus and KNX with smart, IP-based devices like Sonos, Hue,…

Check **www.ubiebox.com** to check which smart devices are supported and **www.ubiecloud.com/guide** to follow the installation instructions.

Qbus

concept & layout

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