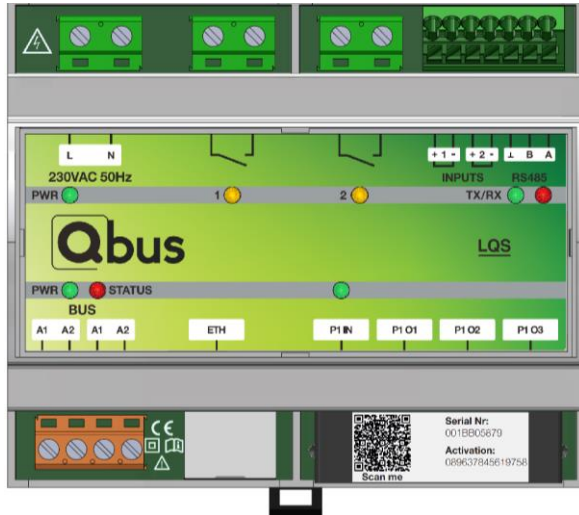


# Luqas, the smart energy management module (LQS06SA)



1 LQS06SA

## 1. Product description

Luqas, the smart energy management module (LQS06SA), allows you to actively control up to 70% of your major electricity consumers in a household to minimise your final bill. This module allows you to easily control a heat pump or boiler in combination with a charging station at the same time based on the information provided by the digital meter and the calculated capacity rate. It will also make the greatest possible use of generated electricity by buffering energy. Various uses are possible. Besides the ability to control capacities using a variable approach, it can also be used to turn devices on and off. The module can operate either on its own (Stand-Alone) or with a Qbus controller. Everything is presented clearly and controllably in a visual manner in the Qbus Control application and Cloud. The module has 6 features that are explained below: P1 reading, P1 splitting, relay control, charging station control, pulse measurements, and Cloud visualisation and operation. These features will be discussed briefly below.

The module is powered with 230Vac and linked to the digital meter using the P1 gate and the network. All data provided by the digital meter are processed internally by the module for controlling the electricity. You can use these data in binary or analogue logic functions for advanced control operations using a Qbus CTD controller.

Depending on the type of connection (mono or three-phase), the presence of a digital gas meter and/or digital water meter, you may have up to 25 parameters: meter readings, current power capacities, voltages, flows, gas usage, water usage, ... The reading of data using the P1 gate of the digital meter can be combined using the pulse inputs for 1 or 2 additional kWh meters. This allows you to feed the data of your electricity generation and/or main consumer(s) separately.

The direct network connection enables you to configure this module when it's set up as Stand-Alone via <https://luqaswizard.qbuscontrol.com/>. The bus connection allows this module to be expanded or linked to a Qbus Full system.

The module offers autonomous and active electricity control using, among others, two potential-free relay contacts. These contacts can be used to control the Smart Grid inputs of heat pumps or to directly control power capacities up to 16A per contact. A list of compatible heat pumps with Smart Grid control can be found in Annexe 1. A list of compatible heat pump boilers with a PV contact can be found in annex 2.

The LQS06SA can communicate with the charging station using a network connection on the same network as this charging station using the MODBUS TCP/IP protocol. This allows the module to control the power capacity in a variable manner based on the configured capacity and usage. A list of compatible charging stations can be found in Annexe 3.

This module has a smart P1 gate switch to divide the P1 data among three P1 OUT gates. In a later phase, the data of the P1 gate can be intelligently transmitted to the three P1 out gates. This allows the smart control of devices using P1 data.

By default, one year of free use of the App or Cloud is offered from the moment of commissioning to make users aware of their energy usage. This is possible thanks to the option of sending warnings (push reports on a mobile phone or by email or text message) to the user if the selected threshold values for usage, generation, or predicted quarterly peak usages are exceeded. Users can read the status of their controlled users, adjust users, and check the current and historic energy usage in an intuitive manner in the Qbus Control App.

These features can be retained by renewing the subscription annually or through a non-recurring activation for an indefinite period. The subscription can be renewed through the App or Cloud.

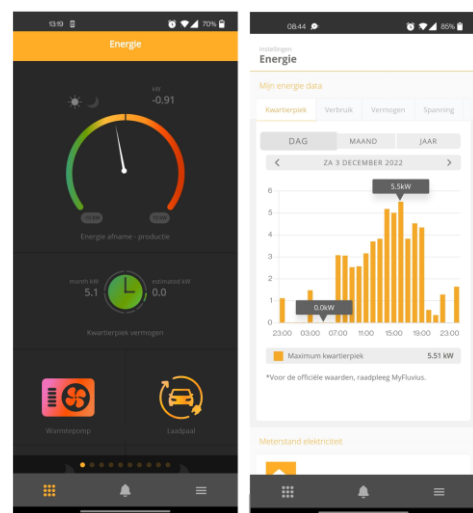


Figure 2 Qbus Control

### Stand-Alone function:

After connecting the power and establishing the network connection, the Stand-Alone configuration can be completed using the user-friendly 'luqaswizard' configuration app. The luqaswizard will guide you through all the settings in a simple manner. You can configure which devices are connected and their power capacity. The user can

# Luqas, the smart energy management module (LQS06SA)

subsequently visualise and operate his energy control using the Qbus Control app or Cloud. If the Qbus Control is no longer active, the module will continue to work autonomously based on the configured values. The user will be requested to renew his account well in advance.

## Combination with CTD

If the module is connected to a Qbus controller (CTD), it can be configured using System Manager III and the data can also be used in logic functions. By connecting the LQS06SA to a CTD, you have access to all functionalities available within a Qbus system.

The LQS06SA has a unique serial number and activation code that must be entered in the System Manager III configuration software or the configuration wizard during the configuration process. All programmed data will be stored internally in a permanent memory.

## 2. Safety rules



Please read the entire manual before installing and activating the module.

### NOTE

- The module must be installed, started, and maintained by a qualified electrician in accordance with the applicable national legal regulations.
- This module is only suitable for DIN rail installation EN50022. The module must be installed in a fireproof, closed distribution cabinet with ventilation grilles.
- The power must be switched off before working on the LQS06SA.
- Never connect external voltages (e.g. 230Vac) to the SER485 bus, the Qbus bus, or the pulse inputs! This will cause irreparable damage to the module or connected devices.
- The module may not be opened. The warranty will expire once the module is opened!
- PLEASE NOTE! Not all systems can be controlled. Always consult the technical brochure of the device to be connected.

## 3. Installation and cables

**NOTE: DISCONNECT THE POWER SUPPLY TO THE MODULE BEFORE CARRYING OUT WORK ON THE MODULE**

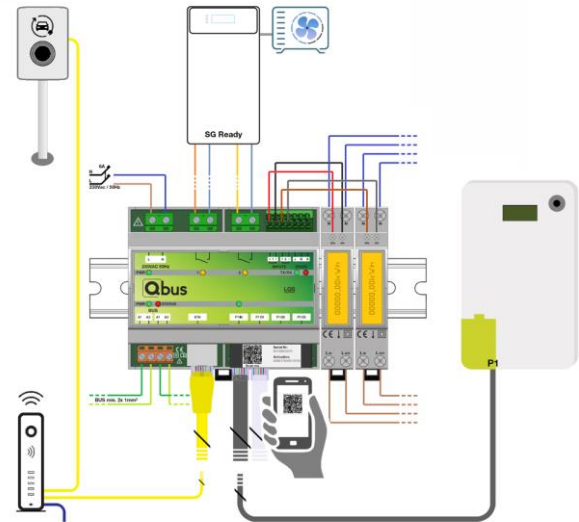


Figure 3 Connection diagram example

### Placement:

Click the module onto a DIN rail DIN EN50022.

### Power supply:

A two-pole automatic fuse with a maximum of 16A must be connected to the 230Vac power supply module. However, protection from 2A is sufficient. Conductor cross-section: minimum 1.5 mm<sup>2</sup> at 16A. Remove approximately 7 mm of insulation from the conductor and screw it into connector L-N.

### Load/Relay:

The LQS06SA has 2 potential-free available contacts that can each control 16A. The contacts can be used to control Smart Grid Ready inputs on heat pumps or as individual switch contacts to control devices (such as a PV contact). You can determine the role of each relay contact using the configuration process. Conductor cross-section: minimum 1.5 mm<sup>2</sup> at 16A. Remove approximately 7 mm of insulation from the conductor and screw the conductors into the connectors.

Please note: If the two relays are combined into a Smart Grid, relay 1 = SG0 and relay 2 = SG1.

### Pulse inputs & RS485:

Remove approximately 7 mm of insulation from the cable and push the cable into plug-in clamps +1 -1; +2 -2. Both fixed and flexible wires between 0.5mm<sup>2</sup> – 1.5mm<sup>2</sup> can be used. For flexible wires, use a screwdriver to push the compression spring of the plug-in clamp down when inserting the wire.

The wires can be released by pushing the top of the compression spring of the plug-in clamp downwards with a screwdriver while pulling out the wire without exerting excessive force.

### Ethernet:

Connect the network cable used to connect to the Internet using the network connection and the charging station if it communicates with the energy management module using a TCP/IP protocol.

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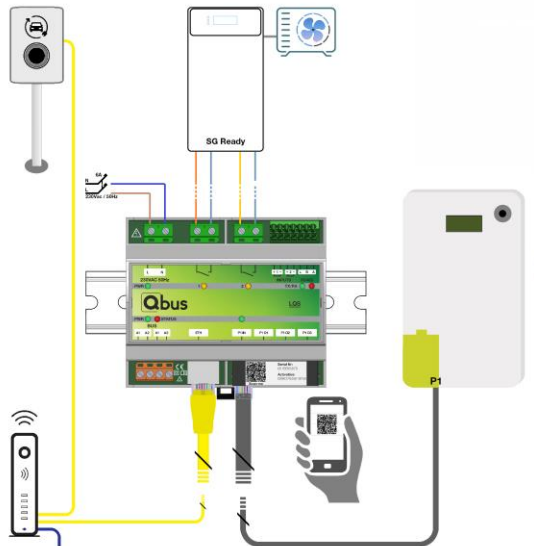


Figure 4 Connection diagram example LQS06SA with charging station and Smart Grid control

### P1 gates:

Connect the provided RJ12 cable (cross-over, 5m) to the P1 IN and the P1 gate of the digital meter. The maximum length of the cross-over RJ12 cable is 20 metres. The other P1 gates (P1 01, P1 02, and P1 03) transmit the original P1 data directly.



Figure 5 Sheets cross-over RJ12 cable

### Activation of P1 gate:

The activation of the P1 gate can take place well before the installation of the energy management module. This is usually requested through the user account on the website of the distribution grid administrator. A list of the available grid administrators in your region can be found below:

<b>Brussels:</b>	Sibelga
<b>Netherlands:</b>	Coteq Netbeheer
	Enduris
	Enexis
	Liander
	RENDONetwerken
	Stedin
	Westland Infra.

**Flanders:** Fluvius

**Wallonia:**

ORES

RESA

REW

AIEG

AIESH

### Qbus bus cabling:

Any shielded cable with conductors of at least  $2 \times 1 \text{ mm}^2$  can be used as a bus cable. A green shielded EIB cable should be used if conductors are combined in pairs to achieve a cross-section of at least  $2 \times 1 \text{ mm}^2$ . The shielding of the bus cable must – and may only – be connected to the building's general earthing system at one end.

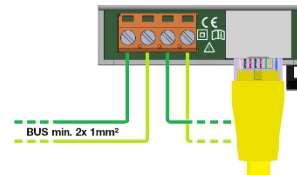


Figure 6 Bus connection LQS06SA

### LED indicator on the module:

#### Green:

- **PWR 230VAC** (top) = power supply OK
- **PWR Bus** (only when using the bus system with CTD) = power supply OK
- **P1 IN:** This means that the P1 has been activated correctly
- **RS485 TX:** Communication RS485 leaves the module

#### Red:

- **Status LED:** lights up for 2 seconds during start-up and, if combined with a CTD, during the programming using System Manager III.
- **RS485 RX:** Communication RS485 responds

#### Orange:

- Relay outputs 1 & 2: Output active

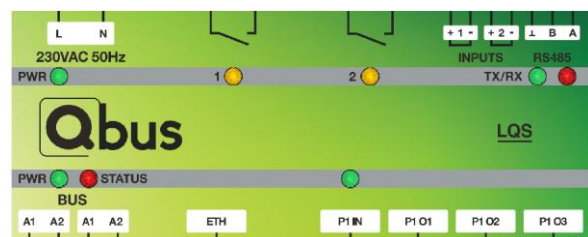


Figure 7 LQS06SA Front detail LEDs

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## 4. Stand-Alone configuration

### Stand-Alone installation:

Scan the QR code on the module to start with the configuration process. As an alternative to the smartphone or QR code, you can also visit [luqaswizard.qbuscontrol.com](https://luqaswizard.qbuscontrol.com) in the web browser of your device to open the configuration app. Once the serial number and the activation code have been entered, the module can be configured completely based on the available power supply, the read inputs, and the controlled outputs. The email address of the user will be requested at the end of the configuration process. By providing an email address, the user will receive an email with an invitation to log in or register at [qbuscontrol.com](https://qbuscontrol.com). Make sure to check if the email ended up in your spam email folder. Once the user has logged in, he can immediately check and use the configured energy dashboard.

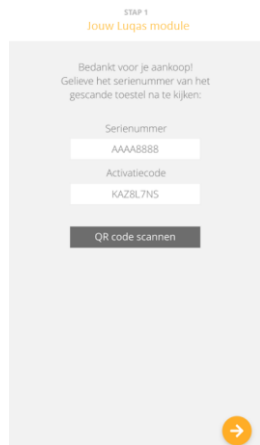


Figure 8 Configuration wizard

## 5. Configuration using System Manager III

When using the module with a CTD, you can use all features offered in a Stand-Alone configuration, but also combine these with the benefits of a complete Qbus system.

Start the System Manager III configuration software and add a new energy module. Configure the entire module based on the power supply, the read inputs, and the controlled outputs.

If the module has already been configured as Stand-Alone, you can consult the settings using the download button.

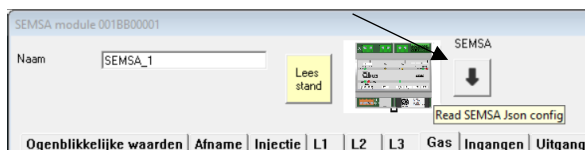


Figure 9 Download the LQS06SA configuration through System Manager III

## 6. Configuration of Smart Grid-ready heat pumps

Heat pumps can be controlled in a more energy-efficient manner using Smart Grid contacts. These contacts can ensure that energy is thermally buffered (in warm water used for sanitation facilities or in space heating) or distribute the energy usage in the household by temporarily deactivating the heat pump. By making more efficient use of an air/water heat pump during the day, it can operate 20% more efficiently on average and reduce its energy usage – increasing your auto-consumption at the same time.

The two relay contacts are switched based on the type of heat pump, the energy currently generated or used, and the configuration of the energy switch of the end customer (distribution of energy usage). Not all regimes are available for each type or brand of heat pump.

Switched regime	Turns the heat pump...
'Off'	up to 2 hours. After this, the normal state will be activated for at least 1 hour.
'Normal'	not. Normal control operations of the heat pump are used.
'Comfort'	to a higher comfort temperature to enable the buffering of energy in warm water of sanitation facilities, space heating, or buffer vessels. The heat pump switches to this state when the current injection is higher than the value entered in the configuration.
'Boost'	to a maximum temperature to enable the greatest possible buffering of energy in warm water of sanitation facilities or buffer vessels. The heat pump switches to this state when the current injection is higher than the value entered in the configuration.

The power capacities of each regime must be entered in the configuration wizard.

When switching modes, for example from 'Off' to 'Normal', 'Normal' to 'Comfort', or 'Comfort' to 'Boost', the module will remain in 'Normal' and 'Boost' modes for 5 minutes and in 'Comfort' mode for 10 minutes. When switching down, each mode remains active for at least 1 minute.

## 7. Configuration of charging stations

### Mennekes Amtron Professional

By default, the Mennekes Amtron Professional can be reached over the network at the following IP address: **192.168.124.123**.

The charging station must be configured in the following manner to allow it to be controlled by the energy management module:

- Visit the web interface of the charging station using your browser at the IP address mentioned above

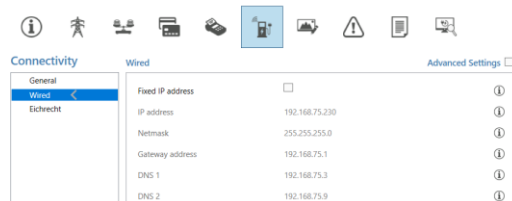
# Luqas, the smart energy management module (LQS06SA)

- Log in with the following username: 'operator' and the password given in the commissioning document of the charging station.
- Visit 'Load management'
- Switch 'Modbus TCP server for energy management systems' ON.
- No other settings need to be changed for the correct operation of the energy management module. If desired, settings like the maximum power per phase, authorisation, or network can be configured in the web interface of the charging station.

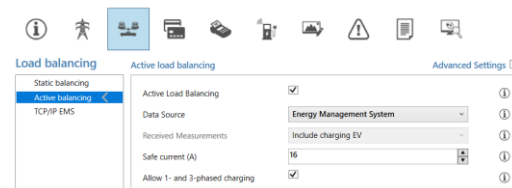
## Alfen

The charging station must be configured in the following manner to allow it to be controlled by the energy management module:

- Install the ACE service installer ([alfen.com](http://alfen.com))
- Enter the username ('Post') and password ('prEze8')
- The application will open and ask for the 'user level' and password. Select 'owner' and the password found on the inside of the cover of the charging station.
- The charging station will be detected automatically, and the IP address will be displayed on the left side. This IP address must be entered in SMIII or the configuration wizard. It is recommended to set a fixed IP address, outside the DHCP range. This can be set in the 'wired' tab.



- Select the 'Smart Charging' tab
- Select the field 'Active Load Balancing'



- Enter 'Energy Management System' as 'Data Source'
- The 'Safe Current' is the power permitted if the charging station loses its network connection. Alfen recommends setting this to at least 6A.
- The additional TCP/IP EMS tab gives you the option of configuring whether 1 charging station is controlled individually ('Socket') or several charging stations using 1 master station ('SCN') are controlled.



- Save the settings and restart the charging station so that it can adopt its settings. To do this, click on the indicated

symbol:



## Veton

The Veton charging station can be reached over the network at the 'ev3000.local' IP address. No other settings are required on the charging station itself.

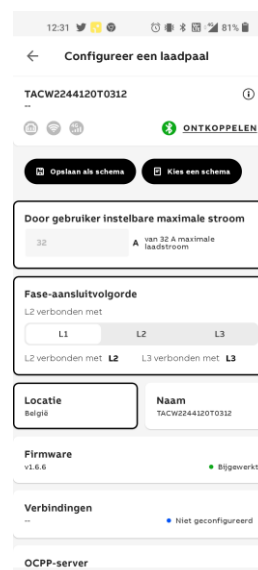
## Blitzpower

The Blitzpower charging station can be accessed on the network via the IP address ev3000.local. No further configuration needs to be done on the charging station itself.

## ABB

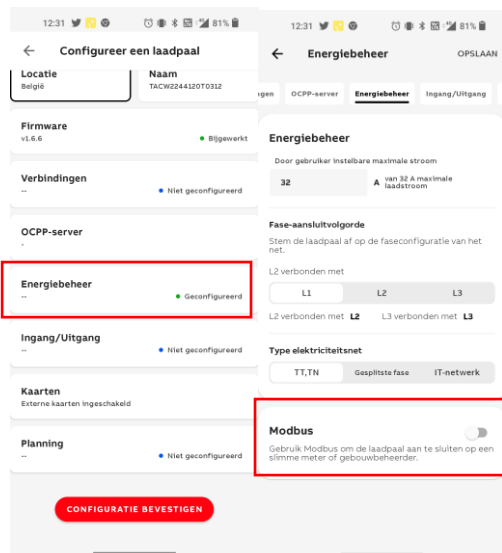
Follow the steps below to configure an ABB charging station. The charging station must be connected to the local network via the primary Ethernet port (for devices with a MID display) or with the Modbus RS485 connection (for devices without a MID display).

- Download the 'Terra Config 2.0' app from Google Play Store or Apple store.
- Log in to the app and connect to the charging station via Bluetooth or Wi-Fi (the smartphone must be connected to the same Wi-Fi network as the charging station).
- Then enter the PIN code that came with the charging station. You should now be connected to the charging station and be able to change settings.
- Go to the configuration page of the connected charging station and check that the firmware version is at least v1.6.6 (1). You can update it via the app.

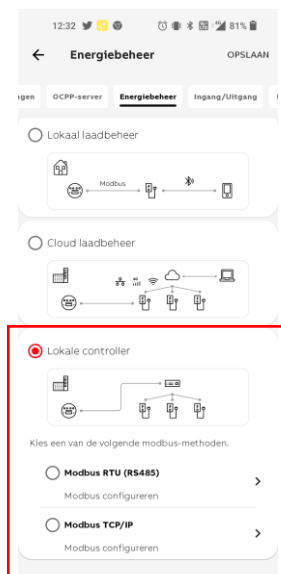


# Luqas, the smart energy management module (LQS06SA)

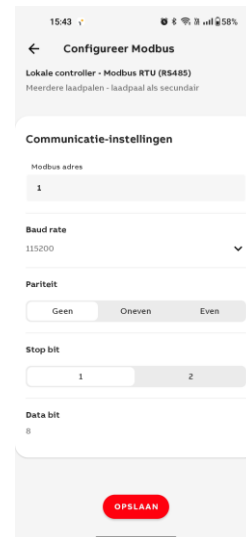
- At the bottom, click on 'Energy management' to configure the controller (2). Set the installation parameters and select 'Modbus' (3).



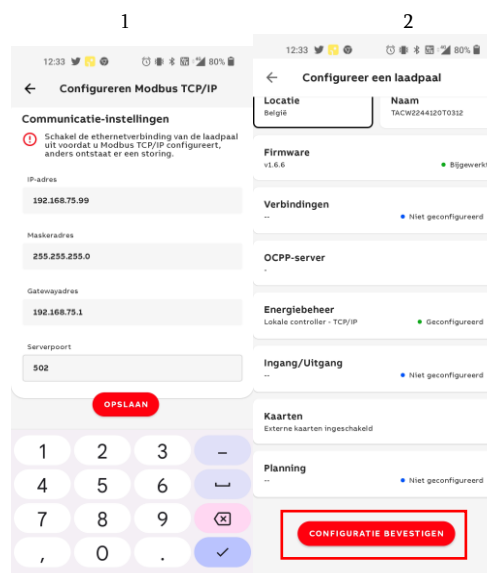
- Select "Local controller" and choose Modbus RTU or Modbus TCP/IP based on the selected connection.



- If you choose Modbus RTU, on the following page, you need to adjust the settings as follows: baud rate 115200, no parity, stop bit 1. If two ABB charging points are connected via Modbus RTU, use Modbus address '1' for the first charging point and Modbus address '2' for the second charging point.



- If choosing Modbus TCP/IP, on the next page, enter a fixed IP address for the charging station (1). Make sure that 'LAN' is deactivated. Choose an available IP address within the local network, fill in 'Mask address' (255.255.255.0), fill in the 'Gateway address' according to the specified IP address (same first 3 digits, last digit '1'), and enter 'Server Port' 502. Click 'Save' and then 'Confirm configuration' (2).



- Restart (power restart) the charging station. The charging station is now correctly configured.
- Use the filled-in IP address in the configuration wizard of the Luqas module if Modbus TCP/IP was chosen.



# Luqas, the smart energy management module (LQS06SA)

## 8. Control of multiple charging stations

The module can simultaneously control two charging stations (either the same or different brands). The available power will be distributed as evenly as possible among the connected vehicles according to the logic provided below:

- If one vehicle is connected and able to start charging, it will draw the power allowed by the energy slider. Parameters in the vehicle or a power limitation in the charging station may still result in a lower drawn power than what is made available.
- When a second vehicle is connected, Luqas will check if there is a minimum power available for the second vehicle. If there is enough power available to provide both vehicles with a minimum power level, the power to the first vehicle will be reduced.
- Throughout the further charging process, the available power will be distributed as evenly as possible between both vehicles. However, the delivered power is dependent on the number of phases a vehicle will use for charging: a three-phase vehicle will receive three times the power of a single-phase connected vehicle. If there is surplus energy, it will be allocated to the charging station with the lowest charging current. If there is insufficient energy, it will be drawn from the charging station with the highest charging current.

### Attention:

When a vehicle is connected, its charging capability is assessed to determine if it can charge on single-phase, two-phase, or three-phase power. This determines the minimum power required for the vehicle to start charging. The minimum power is determined by the vehicle's minimum starting current plus a buffer of 2 amperes per phase. The available power is the difference between the set value of the energy slider and the current household energy consumption or the surplus energy from the solar panels.

The table below provides the minimum power requirements for various scenarios:

Minimum Starting Current	Single-Phase Charging	Two-Phase Charging	Three-Phase Charging
6A + 2A buffer	1,84kW	3,7kW	5,52kW
8A + 2A buffer	2,3kW	4,6kW	6,9kW

## 9. Technical specifications

### General specifications:

- Power supply: 230Vac +/-10%, 50Hz - maximum protection C16A/2P
- Breakdown voltage: tested at 3kVac
- Typical usage: max. 39mA (all relay outputs on)
- Ambient temperature:
- Operating temperature: 10°C to 50°C
- Storage temp. range: -10°C to 60°C
- Maximum humidity: 93%, no condensation

- Bus load: 5mA at nominal voltage 13.8V.
- Maximum installation height: 2,000 metres above sea level.

### Outputs:

Relays 1 and 2 => potential-free contacts for maximum current: 16A:

- Contact resistance: 100mW
- Set/Reset time: 15ms max / 5ms max
- Life span: 20mil. Operations
- Maximum current: Resistive load (cos phi = 1) 16A at 230Vac / 30VDC  
Inductive load (cos phi = 0.4; L/R = 7 ms) 8A at 230Vac / 30VDC
- Maximum switch voltage: Resistive load (cos phi = 1) 3680VA at 230Vac, 480W at 30Vdc; Inductive load (cos phi = 0.4; L/R = 7 ms) 1840VA at 230Vac, 240W at 30Vdc
- We strongly recommend not exceeding these values. An external contact must be used if this is the case.

### Electrical safety

- Bus: 13.8Vdc -18Vdc very low safety voltage.
- In accordance with EN50491-5-1, EN50491-5-2, EN60529
- Breakdown voltage: module is tested and approved at 3kVac. (50 Hz, 1 min)
- Non-toxic, in accordance with WEEE/RoHS

### CE

- Qbus declares that this product meets all applicable European directives and regulations.
- The EU declaration of conformity is available upon request.

### Physical specifications:

- Housing: plastic, self-extinguishing in accordance with UL94-V0
- Ingress protection rating: IP20, EN 60529
- Installation: rapid installation on DIN rail, width 6 modules
- Dimensions (h x w x l): 62mm x 90mm x 107mm
- Weight: approximately 150g.

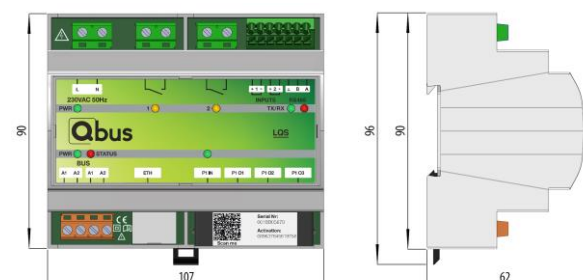


Figure 10 Dimensions LQS06SA

## Luqas, the smart energy management module (LQS06SA)

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### 10. Explanation of symbols



Equipment which protection against the risk of electrical contact is based not only on basic insulation but also on additional protection such as double insulation or reinforced insulation. There is no option to earth the equipment.



The operating instructions of the product in question must be read before the device is connected. ISO7000-0434



Mains connection (230V) to the power connector. IEC 60417-5036



CE conformity. All declarations of conformity are available upon request.

### 11. Warranty provisions

Warranty period: 2 years from the date of delivery. The warranty will no longer be valid if the module has been opened! The warranty period will be extended by 2 years if the module has been installed by an authorised Qbus installer.

Qbus support must be contacted first in case of shortcomings, after which defect modules can be sent to our service department at no cost:

Qbus NV  
Joseph Cardijnstraat 19  
B-9420 Erpe-Mere, Belgium  
Tel: +32 (0)53 60 72 10  
Fax: +32 (0)53 60 72 19  
Email address: [support@qbus.be](mailto:support@qbus.be)



# Luqas, the smart energy management module (LQS06SA)

## Annex 1: Smart Grid Heat Pumps

Brand	Type	Connection relay 1	Connexion relay 2
Alpha Innotec	SW H3 · SWC(V) H1/H3 · WZS(V) H3 · PWZS(V) H1/H2/H3	IN5	IN6
	LWCV · LWDV · LW(A)V · LW(A)HV · LWAV+ · Paros · LWP	IN3	IN4
Atlantic	Alféa Extensa A.I.	EX1 on X11 looped through to L-5 via LQS relay	EX2 on X11 looped through to L-5 via LQS relay
	Alféa Excellia A.I.	EX1 on X11 looped through to L-5 via LQS relay	EX2 on X11 looped through to L-5 via LQS relay
Bosch	All heat pumps	I1	I4
Buderus	All heat pumps	I1	I4
Bulex	GeniaAir Tek HA x-7.2	S21	X41/FB + 0(L)
	GeniaAir Mono HA x-6	S21	X41/FB + 0(L)
	GeniaAir Split HA x-5	S21	X41/FB + 0(L)
CTC	All heat pumps	K25 (Smart A)	K26 (Smart B)
Daikin	Altherma 2 CB series <sup>(1)</sup>	LAN adapter: X1A/1+2	LAN adapter: X1A/3+4
	Altherma 3 D-series <sup>(1)</sup>	LAN adapter: X1A/1+2	LAN adapter: X1A/3+4
	Altherma 3 E-series	X5M/9+10	X5M/5+6
Hitachi	Yutaki, Yutampo and Hisense Hi-Therma models	SG ready Input 1	SG ready Input 2
Itho Daalderop	HP-S	K2	ES
LG	Therma V Air/Water	TB_SG1	TB_SG2
Midea	M Thermal Arctic	SG contact	EVU contact
	Swan 2	SG contact	EVU contact
Mitsubishi	Ecodan C-series generatie R2	TBI.3 IN11	TBI.3 IN12
	Ecodan D-series	TBI.3 IN11	TBI.3 IN12
	Ecodan E-series	TBI.3 IN11	TBI.3 IN12
Nibe	All heat pumps	Connecting and assigning to AUX contact	Connecting and assigning to AUX contact
Thermastage	Thermastage Compact 05-11	EX1	EX2
	Thermastage Compact 13-16	EX1	EX2
Thermia	Atlas	BM card: D21 (408) or EM3 card D95 (408)	BM card D22 (409) or EM3 card D96 (409)
	Calibra	BM card: D21 (408) or EM3 card D95 (408)	BM card D22 (409) or EM3 card D96 (409)

## Luqas, the smart energy management module (LQS06SA)

	Mega	BM card: D21 (408) or EM3 card D95 (408)	BM card D22 (409) or EM3 card D96 (409)
	Athena	BM card: D21 (408) or EM3 card D95 (408)	BM card D22 (409) or EM3 card D96 (409)
Vaillant	aroTHERM pure /7.2 (uniTOWER /7.2)	S21	X41/FB + 0(1)
	aroTHERM plus /6 (uniTOWER VIH /6 / VWZ MEH 97)	S21	X41/FB + 0(1)
	aroTHERM /5	S21	X41/FB + 0(1)
	flexoCOMPACT /4	S21	X41/FB + 0(1)
	flexoTHERM /4	S21	X41/FB + 0(1)
	aroTHERM VWL /2	S21	X41/FB + 0(1)
Viessmann	All Vitocal heat pumps (since 08/2018).	W01C control: 216.1 One Base control: 143.4	W01C control: 216.4 One Base control: 143.5
Weishaupt	WWP WEM / WWP T300A / WWP WPM	SGR1 – input H1	SGR2 – input H2

(1) LAN adapter is required (version BRP069A61).

Green-marked devices are compatible since june 2023.

## Luqas, the smart energy management module (LQS06SA)

### Annex 2: Heat pump boilers with PV contact

Brand	Type	Connection relay
Atlantic	Explorer V4	Relay on A1 and B2, bridge between A2 and B1.
	Calypso VM	Black screw terminal I1.
	Calypso Split inverter	Connection 11 & 12.
Ariston	Nuos Plus Wifi	SIG2 (switching with Luqas relay at 230V)
	Nuos Split Inverter Wifi	SIG2 (switching with Luqas relay at 230V)
Bosch	Compress 5000DW	'GND' and 'KEIN'
Bulex	MagnaAqua /3 (C)	PV ECO via HP contact (1: off-peak hours, only WP) or PV MAX via HP contact (2: WP hygrostat + resistance)
DC Innova	Aircoheater 2.0	CP contact
Itho Daalderop	WPU	I2 on the control board.
Stiebel Eltron	SHP-A 220 series (from 2018)	X3/1 and X0/1, see the Stiebel Eltron manual for the complete diagram.
	SHP-F 300 series (from 2018)	X3/1 and X0/1, see the Stiebel Eltron manual for the complete diagram.
Thermor	Aeromax Premium Version 4	Relay on A1 and B2, bridge between A2 and B1.
Vaillant	aroSTOR VWL B(M)	PV ECO through HP contact (1: off-peak hours, HP only) or PV MAX through HP contact (2: HP + resistor)
Viessmann	Vitocal 262-A type T2W	FV/PV contact
	Vitocal 060-A	Multifunction relay
Wolf	All models	SG/PV contact

Green highlighted devices are compatible since February 2024

## Luqas, the smart energy management module (LQS06SA)

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### Annex 3: Compatible charging stations using Modbus TCP/IP

Brand	Type
ABB	Terra AC wallbox (via Modbus RS485 for models without MID display, via Modbus TCP/IP or RS485 for models with MID display)
Blitzpower	Wall
	Tower
	Push
Mennekes	AMTRON® PROFESSIONAL
	AMEDIO Professional
Alfen	Eve Single S-line <sup>(1)</sup>
	Eve Single Pro-line <sup>(1)</sup>
	Eve Double Pro-line <sup>(1)</sup>
Veton	One
	Wall
	Wall Plus

(1) : Option Load Balancing Active (905661011) required

Green-marked devices are compatible since February 2024.