

ekinex

CONTROL YOUR LIVING SPACE

Delégo server

Supervisory web-server for KNX standard building systems.

Codes:

EK-DEL-SRV01 / EK-DEL-SRV01-M



Datasheet STEKDELSRV01M_EN

Delégo server is a device that allows you to create supervision and control systems for KNX standard systems, for mobile devices (iOS and Android smartphones and tablets), fixed (PC and MAC) and in combination with the delégo-panel series wall touch-screen panels. Through the integrated web-server, directly exposed to the Internet and connected to ekinex cloud services, delégo server is a versatile solution, suitable for the control of light, climate, blinds and shutters and energy of a modern KNX standard building and can be integrated with multimedia systems, video surveillance, video intercom and intrusion detection. The integrated voice-bridging service also allows control via voice commands given to Amazon and Google assistants.



Description

Delégo server is a dedicated device on which the delégo supervision system is installed. The product is designed for installation on a DIN profile rail and occupies 4 modules. Power can be supplied via PoE, or with an external 12-24 Vdc power supply (power supplier not included in the supply). The product with hardware based on an embedded operating system, has a KNX TP (twisted pair) node and can therefore be connected directly to the KNX device bus network. It is also equipped with an RS485 port for connecting Modbus RTU slave devices, an RS232 serial port and an external USB port. There is also a microSD slot, for storing historical data, extending the integrated memory. The external connectivity is realized through the Ethernet port that connects the device directly to the home router. The integrated web server built with HTML5 technology allows access to the configuration environment and multi-user access to the display environment for fixed locations such as PC and MAC. The visualization environment, accessible with a

standard browser, is organized in 3 levels with access to the area or floor, room and function. The functions can be managed in a logical way through graphic components or through graphic and synoptic maps. The system supports notifications for the user in case of events foreseen in the configuration phase.

Delégo Mini is the entry-level version of the Ekinex supervision system, ideal for small KNX systems. It offers the same features and capabilities as Delégo Server, with the only limitation of 200 KNX group addresses, expandable to 500 with an upgrade license, making it the ideal solution for compact and optimized projects.

The configuration environment includes a complete set of functions for the implementation of connected automation systems to KNX standards:

- Automatic import of the ETS project and merging with previous imports
- Configuration of the building structure in areas and rooms
- Association to the environments of the graphic components for the lighting (on/off, dimmed, RGB), climate (temperature, relative humidity and air quality control) and motorizations (shutters and blinds).
- Definition of scenarios, sequences of custom commands with timings (also configurable by the user in the visualization environment and on the mobile app)
- Time schedules on the elements of all defined graphical components (also configurable by the user in the visualization environment and on the mobile app)
- Graphic development environment with functional blocks to realize advanced logic (with library of combinators, gates, comparison and mathematical operators, counters, timers and triggers, astronomical clock)

The configuration environment provides management functions such as:

- Activation of ekinex cloud connection for automatic firmware update
- Voice-bridging service and selective activation of voice commands, extended to all defined graphic components, using Amazon and Google smart-speakers.

The local connection to the supervision for mobile devices with the app delégo is made via the WiFi access point integrated in the home router. Remote access can be achieved by direct exposure of the web-server to the Internet (via port forwarding) or via ekinex cloud access.

Versions, licenses and vouchers

Please refer to the summary table at the bottom of this technical sheet.



Note. The extension of the number of supported group addresses is foreseen for the EK-DEL-SRV01 product. If the supervision to be implemented requires a number of KNX group addresses greater than that supported by the purchased product, upgrade software licenses are available (activated with a specific code in the configuration environment of the server device). For an updated list of available licenses, consult the website www.delego-ekinex.com in the appropriate section.



Note. Integration in the supervision of non-native KNX intrusion detection systems or third-party VOIP systems requires the activation of vouchers via a specific code in the configuration environment of the server device. These features are only available for the EK-DEL-SRV01 server. For an updated list of available vouchers, see the dedicated section on the website www.delego-ekinex.com.

Main features

- Power supply via PoE or, alternatively, 12-24 Vdc using the special plug-in terminal supplied. The power supplier is not included
- KNX TP bus (twisted pair) via red-black terminal provided
- 1 Ethernet port via cat. 5 or higher cable and standard RJ45 connector
- 1 RS485 port for integration of Modbus RTU slave devices
- 1 USB 2.0 port: for future integrations
- 2 frontal LEDs: POWER LED for signalling the presence of power supply; SERVICE LED for signalling particular operations in progress.
- 1 RESET button
- 1 x 3-pin RS232 serial port
- 1 microSD slot, for storing historical data, extending the built-in memory

Technical Data

Other features

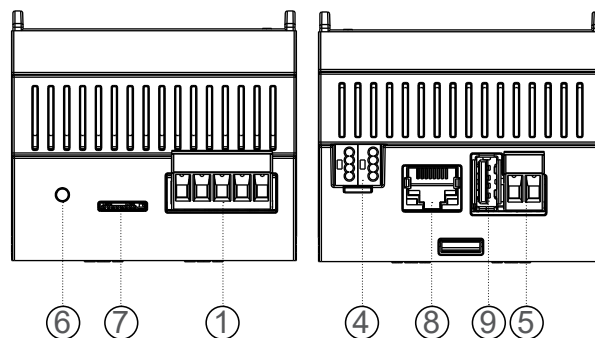
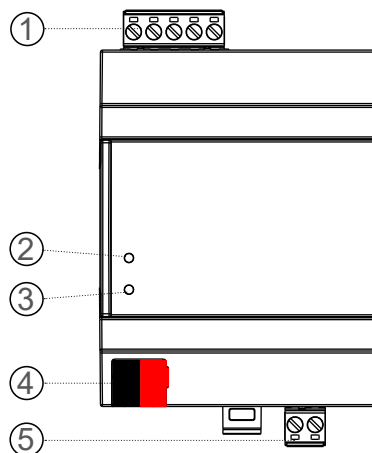
- Plastic housing
- Design for mounting on 35 mm profile rail (according to EN 60715)
- Degree of protection IP20 with product installed (according to EN 60529)
- Insulation class II (according to EN 60335-1)
- Climatic classification 3K5 (indoor, dry) and mechanical 3M2 (according to EN50491-2)
- Device weight: 200 g
- 4 UM modular device (1 UM = 18 mm)
- Dimensions (L x H x P) 71 x 90 x 63 mm, excluding clamps

Environmental conditions

- Operating temperature: 0°C ... + 40°C
- Storage temperature: - 10 ... + 70°C
- Transport temperature: - 10 ... + 70°C
- Relative humidity: 95% non-condensing

Operating, signaling and connection elements

Delégo server is equipped with status LEDs, a RESET button, terminals for connecting the power supply, the KNX bus line, the Ethernet network, the RS485 bus line, the RS232 serial port and a USB port. There is also a slot for housing a microSD card.



Nr.	Label	Connection
1		RS485 / RS232 ports
2		SERVICE LED
3		POWER LED
4		Clamp for KNX bus
5		Clamp for 12-24 Vdc power supply
6		RESET button
7		microSD slot
8		Ethernet port
9		USB port

Signaling elements

- POWER LED: indicates the presence of 12-24 Vdc power supply at terminals
- SERVICE LED: Normally off, steady mode or flashing during IP address recovery sequences or factory re-configurations

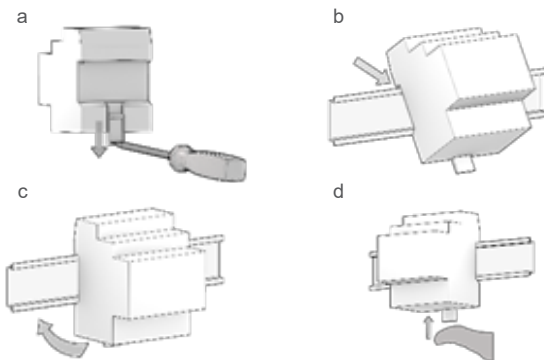
Control elements

- RESET button: must be pressed to activate IP address reset sequences or factory settings.

Mounting

The device has degree of protection IP20, and is therefore suitable for use in dry interior rooms. The housing is made for rail mounting according to EN 60715 in boards or cabinets for electrical distribution. The installation is in horizontal position, the correct position is when the KNX bus terminal is located at the bottom and the terminals for the outputs are located at the top. For the installation of the device on the rail proceed as follows:

- with the aid of a tool bring the locking device in the fully lowered position (1);
- place the upper edge of the rear inner profile on the upper edge of the rail (2);
- rotate the device towards the rail (3);
- push the locking device upward until it stops (4).



Before removing the device, be sure the inputs have been disconnected (included the Ethernet network connection) and the bus terminal has been extracted from its slot. Use a screwdriver to slide down the locking device and remove the device from the rail.



Note. It is recommended that the installation of the device always ensure the full accessibility of the front side to allow the led visualization.

PoE or 12-24 Vdc power supply

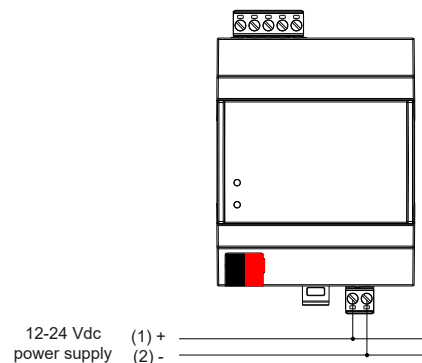
The connection to the power supply is made via the screw terminals (1)+ and (2)- located on the removable 2-pin connector.

Clamp characteristics

- Screw tightening of conductors
- Max. conductor cross-section 2.5 mm²
- Recommended conductor stripping approx. 6 mm
- Max. torque 0.5 Nm



Warning! The electrical connection of the device may only be carried out by qualified personnel.

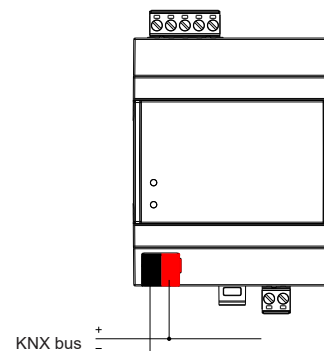


Connection to the KNX bus network

The connection to the bus network is made via the KNX terminal included in the scope of delivery and inserted into the housing on the front of the device at the bottom.

KNX clamp characteristics

- Spring clamping of the conductors
- 4 conductor seats for each polarity
- Suitable for KNX bus cable with single conductors between 0.6 and 0.8 mm diameter
- Recommended conductor stripping approx. 5 mm
- Colour coding: red = bus conductor + (positive), black = bus conductor - (negative)



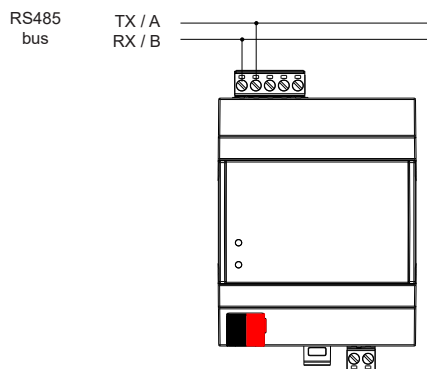
Warning! Only use KNX bus power supplies (e.g. ekinex EK-AB1-TP or EK-AG1-TP) to supply the KNX bus lines. The use of other power supply devices can impair communication and damage the devices connected to the bus.

Connection to RS485 bus network

The connection to the RS485 bus network is made via the TX/A and RX/B screw terminals, located on the 5-pole removable connector (1) in the first 2 positions starting from the left side.

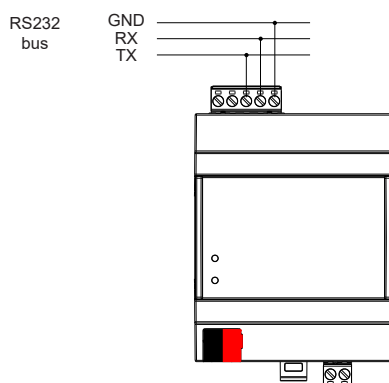
Clamp characteristics

- Screw tightening of conductors
- Max. conductor cross-section 2.5 mm²
- Recommended conductor stripping approx. 6 mm
- Max. torque 0.5 Nm

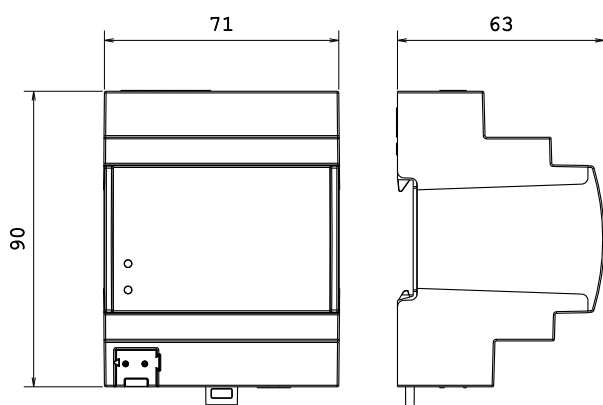


Connection to the RS232 bus network

The connection to the RS232 bus network is made via the screw terminals 3-4-5, located on the 5-pole removable connector (1) starting from the left side.



Dimensions [mm]



Approvals

- CE, UKCA: the products comply with the Low Voltage Directive (2014/35/EU) and the Electromagnetic Compatibility Directive (2014/30/EU). Tests carried out in accordance with EN 50491-5-1: 2010, EN 50491-5-2: 2010.

Maintenance

The devices are maintenance-free. To clean them, use a dry cloth. The use of solvents or other aggressive substances is absolutely to be avoided.

Disposal



At the end of its useful life the product described in this datasheet is classified as waste from electronic equipment in accordance with the European Directive 2012/19/EU (WEEE recast), and cannot be disposed together with the municipal undifferentiated solid waste.



Important! Incorrect disposal of the product can cause serious damage to the environment and human health. For correct disposal, inquire about the collection and treatment methods provided by the local authorities.

Document

This data sheet refers to ekinex® device release A1.0 cod. EK-DEL-SRV01 and EK-DEL-SRV01-M and is available for download at www.ekinex.com in PDF (Portable Data Format).

File Name	Device Release	Update
STEKDELSRV01M_EN.pdf	A1.0	04 / 2026

Warnings

- Installation, electrical connection, configuration and commissioning of the device may only be carried out by qualified personnel in accordance with the applicable technical regulations and the laws in force in the respective countries.
- The device may not be used in safety applications. However, the device may be used for auxiliary signalling functions.
- Opening the housing of the device results in the immediate interruption of the warranty period.
- In the event of tampering, compliance with the essential requirements of the applicable directives for which the device has been certified is no longer guaranteed.
- Defective ekinex® KNX devices must be returned to the manufacturer at the following address: Ekinex S.p.A., Via Novara 37 - I-28010 Vaprio d'Agogna NO

- This technical data sheet is addressed to installers, system integrators and designers
- For more information on the product, you can contact ekinex® technical support at the e-mail address: support@ekinex.com or consult the website www.ekinex.com•
- Each ekinex® device has a unique serial number on the label. The serial number can be used by installers and system integrators for documentation purposes and must be added to any communication addressed to ekinex® technical support in case of equipment malfunction.
- ekinex® is a registered trademark of Ekinex S.p.A.
- KNX® and ETS® are registered trademarks of KNX Association cvba, Brussels.

Other useful informations

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Delégo server main features



DELÉGO SERVER MINI

DELÉGO SERVER

PRODUCT CODE	EK-DEL-SRV01-M	EK-DEL-SRV01
KNX DATAPOINTS		
KNX	200	1500
Upgrade to 500 total KNX points (EK-DEL-UPG01-M)	YES	-
Upgrade to unlimited Total KNX points (EK-DEL-UPG02)	-	YES
ACCEDO (ACCESS CONTROL SYSTEM)		
Rooms (included)	4	4
Room upgrade (with voucher)	Up to 200 rooms with voucher	Up to 200 rooms with voucher
USER INTERFACE		
ETS Import	YES	YES
Maps	YES	YES
Rooms	YES	YES
Interface Customization	YES	YES
Reporting	YES	YES
CLOUD SERVICES		
Cloud connectivity for remote access	YES	YES
Voice Assistants	YES	YES
Weather services	YES	YES
Notifications on Cloud	YES	YES
INTEGRATIONS		
Modbus	YES	YES
Matter Bridge + Controller	YES	YES
Mbus	YES	YES
MQTT Client and Server	YES	YES
Integration of Philips HUE	5 bridges	5 bridges
Integration of Sonos	30 zones	30 zones
KNX Alarm Systems (example: Telenot)	YES	YES
Security systems integration (Tecnoalarm, Elmo, Bentel, Paradox, Axel)	YES with Voucher	YES with Voucher
SIP Server	YES with Voucher	YES with Voucher
FUNCTIONS		
Single Widget PIN Code Protection	YES	YES
LUA Logic Module	YES	YES
Lights	YES	YES
RGBW Lights	YES	YES
Heating/Cooling	YES	YES
Motorisation	YES	YES
Irrigation	YES	YES
Alarms	YES	YES
Circadian Cycle	YES	YES
Telegram Notifications	YES	YES
Email Notifications	YES	YES
Push Notifications	YES	YES
Schedules	YES	YES
Energy monitoring	YES	YES
Astronomic Clock	YES	YES
Scenes and Timers	YES	YES
Presence Simulation	NO	YES
Scripting	NO	YES