

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.

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 combiners, 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

- EK-DEL-MINI-TP: delégo MINI server version, suitable for the supervision of small installations on KNX bus, not expandable in the number of supported group addresses. The MINI server cannot be expanded in functions via licence activation vouchers. Maximum number of KNX group addresses that can be managed: 200. Number of rooms: 12; scenarios: 20; programmes with logical combination functions: 20.
- EK-DEL-SRV-BAS-200-TP: delégo server version with BASIC licence. Number of KNX group addresses manageable: 200 (expandable with licence voucher). Number of rooms unlimited; scenarios: 100; programmes with logical functions: 100. Acquisition of up to 30 Modbus registers on RS485/TCP-IP from slave devices