

Adquo KNX Gateway

Your KNX installation, integrated into the Adquo ecosystem.



Bidirectional integration through a local gateway

Adquo KNX Gateway connects KNX/IP installations to Adquo. It displays telegrams, maps group addresses to devices and variables, and synchronises values in real time, with a configurable communication direction for each mapping.

- KNX/IP UDP Tunneling and multicast Routing.
- Device and variable creation and updates through the Adquo API.
- Monitoring of telegrams, latest values and errors.
- Local web administration, users, backups and an integrated manual.

Requirements: a network-accessible KNX/IP interface or router, and access to Adquo configuration and synchronisation services.

Hardware and installation conditions

The same hardware platform as Adquio Mini, with dedicated KNX Gateway software.

Nominal power supply	24 V DC
Maximum voltage	28 V DC
Power connector	Removable terminal block, 5.08 mm pitch, 2 contacts
Power protection	Reverse-polarity protection; 3 A rated fuse
Platform consumption	90–150 mA at 24 V DC; stated maximum and start-up peak: 150 mA
Processor / RAM	Quad-core ARM Cortex-A7 / 512 MB DDR3
Storage	16 GB
Ethernet / WiFi	1 port, 10/100 Mb/s / 2.4 GHz
Physical auxiliary ports	4 RS-485 and 1 USB 2.0
Enclosure dimensions	70 × 90 × 56 mm (width × height × depth). Overall height shown in the drawing: 106 mm.
Mounting	Horizontal; 35 mm DIN rail (7.5 or 15 mm deep) or 4 mm screws
Enclosure / protection	Dark grey ABS UL-94-HB / IP20
Operating temperature	0 to +60 °C, mounted horizontally on a DIN rail
Storage / transport	–40 to +70 °C
Relative humidity	95% maximum, non-condensing
Operating altitude	Below 2000 m; pressure above 800 hPa

Physical and electrical reference data: Adquio Mini V1.5 datasheet and published product specifications. This gateway integrates KNX over KNX/IP; communication functions depend on the installed software.

KNX Gateway functions

KNX connection	KNX/IP UDP Tunneling or multicast Routing; discovery and testing of network interfaces
Group addresses	Read and write; DPT-based encoding and decoding
Synchronisation direction	KNX → Adquo, Adquo → KNX or bidirectional, per mapping
Adquo integration	API for creating and updating devices and variables; RAP for real-time values and subscriptions
Monitoring	Telegram history: time, type, source, group and value; latest values, writes and errors per mapping
Continuity	Automatic reconnection and echo-loop protection; retention of recent history and status across restarts
Administration	Local web interface, light and dark themes, connection and system-resource dashboard
Network	Ethernet and WiFi; DHCP or static IP; rescue IP for local access
Users	Administrator and user roles; account management and password changes
Backups	JSON mapping import/export; backup and restore of configuration, users and mappings
Documentation	Integrated user manual available without Internet access

13 languages

Spanish, English, French, Portuguese, Italian, German, Dutch, Polish, Catalan, Basque, Galician, Turkish and Arabic.

Getting started

1. Connect power and network. 2. Configure the KNX/IP interface and Adquo connections. 3. Map KNX groups with their DPTs and variables. 4. Check values and the synchronisation direction.