

Care, faults & disposal

Care and servicing

Isolate supplies before cleaning. Use a soft, dry cloth. Do not use liquids, solvents or abrasives.

Do not open, modify or repair the gateway. Contact Elausys for servicing.

If damaged, wet, unusually hot or emitting an unusual smell, stop use. Have a qualified installer isolate it safely.

Fault assistance

Check supply, wiring and configuration against the manual. If the fault remains, tell support the product identification, firmware version and fault symptoms.

Electrical waste

Do not put this device in household waste. The crossed-out wheeled bin indicates separate collection of electrical equipment.

Use an authorised electrical-waste collection point or ask your supplier about returns. Separate collection supports reuse and recycling and protects health and the environment.

Sort packaging according to local collection rules.

Manufacturer & documentation

Manufacturer

Elausys SRL

Rue de la petite ferme 5C
4218 Couthuin
Belgium

Support:

info@elausys.be
elausys.com

EU conformity documentation

For the EU Declaration of Conformity for INV-KNX, contact Elausys at the email address above. Quote the product reference and the identification shown on the device.

Manuals and downloads

Access the inverter-specific user manual, ETS application and Quick Start Guide through the Elausys Support Center.

elausys.com/en/support



Scan for product documentation.



Design. Integrate. Visualise.

INV-KNX

Safety & regulatory information

ENGLISH

Read before installation

Read this notice and the inverter-specific user manual before installation. Keep both documents and pass them to the end user.

Intended use

INV-KNX reads compatible solar inverter measurements over Ethernet / Modbus TCP and provides KNX group objects for monitoring and automation.

Use only supported inverter models and interfaces. Data availability depends on the connected equipment and configuration.

Do not use gateway data as a substitute for the inverter's protective functions or as the sole input to a safety function.

Electrical safety

WARNING - Hazardous voltage may be present in the installation cabinet and inverter system.

Installation and wiring must be performed by a qualified electrical installer in accordance with applicable national rules.

Before installation or removal, isolate all relevant supplies, prevent reconnection and verify absence of voltage. Follow the inverter isolation procedure when working on that equipment.

Supply the gateway only with a regulated, safety-isolated 12-30 VDC source. Observe the marked polarity. Never connect mains voltage or photovoltaic string wiring to any gateway terminal.

Separate KNX and auxiliary wiring from mains wiring. Prevent loose strands and contact with live parts.

Installation environment

Mount on a DIN rail in a dry indoor enclosure. Protect from moisture, condensation, dust and heat. Ambient temperature: +5 °C to +45 °C.

Do not install or energise a damaged device.

Connections & limits

Essential technical data

Product: INV-KNX

Auxiliary supply: 12-30 VDC

KNX bus current: <16 mA at 29 VDC

Ambient temperature: +5 °C to +45 °C

Mounting: DIN rail, 2 modules

Inverter interface: Ethernet / Modbus TCP

Building interface: KNX TP

Connection requirements

Connect the KNX bus to the top red/black terminal, observing polarity. Use a suitable KNX bus power supply.

Connect the auxiliary DC supply at the bottom screw terminal, observing + and -. Both the auxiliary supply and KNX bus are required.

Connect RJ45 Ethernet to the inverter's local network or supported interface.

KNX is galvanically isolated from the auxiliary supply and Ethernet. Never connect mains to the gateway.

Before power-up

Check the supply voltage, polarity, secure mounting and all connections. Use the connection diagram in the relevant user manual.

Commissioning & secure use

Configuration

Set network and Modbus parameters through the gateway webpage and KNX parameters in ETS. Follow the Quick Start Guide and inverter-specific manual.

Match the Modbus address, port and unit ID to the inverter interface and ETS model.

Verify operation

Network LED: Ethernet link. Connected LED: inverter communication. These LEDs do not verify KNX measurements or automation.

Before enabling automation, compare KNX values with inverter readings. Check units, power-flow signs and refresh interval. Design the installation to handle stale or missing data and loss of power or communication.

Network protection

Use a trusted LAN with access limited to authorised users and devices. Never expose gateway, KNX or inverter Modbus access directly to the internet.

Use only Elausys firmware and update instructions. Maintain power during updates. Verify operation afterwards.