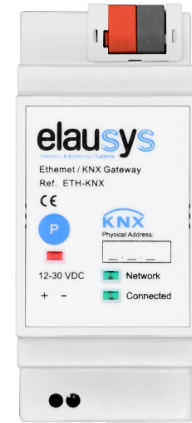


INV-KNX

Solar inverter gateway for KNX

INV-KNX brings live solar production, battery storage and grid exchange data onto KNX. It reads the inverter over Modbus TCP and provides native KNX datapoints for energy monitoring and self-consumption control.



INV-KNX

Supported inverter brands

Huawei
SMA

Sungrow
Kostal

Fronius
GoodWe

SolarEdge
Sigenergy

Solar monitoring and energy management

Native KNX datapoints

Up to 55 group objects for production, batteries, smart-meter values and diagnostics.

Up to four PV strings

Monitor voltage and current for each string to track solar yield and support diagnostics.

Dual battery support

Read state of charge, charge/discharge power and energy for up to two batteries.

Connection and isolation

Modbus TCP over Ethernet to the inverter
KNX TP connection to the building bus

KNX is galvanically isolated from the auxiliary supply and Ethernet network.

64 logic functions

Gate, Sequence, Trigger and Math blocks run energy management logic on the gateway.

Smart-meter integration

Signed active power at the grid connection supports logic based on available solar surplus.

ETS commissioning

Configure a single KNX device in ETS, with a consistent application across inverter brands.

Available datapoints depend on the inverter and connected battery or smart meter.

Technical specifications

Mounting	DIN rail, 2 modules	KNX interface	KNX TP, galvanically isolated
Aux. supply	12-30 VDC, screw terminal	Datapoints	Up to 55 group objects
Bus current	< 16 mA at 29 VDC	Logic engine	64 logic functions
Network	Ethernet RJ45	Inverter link	Modbus TCP
Operating temp.	+5 °C to +45 °C	Configuration	ETS

Compact DIN-rail gateway, 2 modules wide. Auxiliary 12-30 VDC supply required.