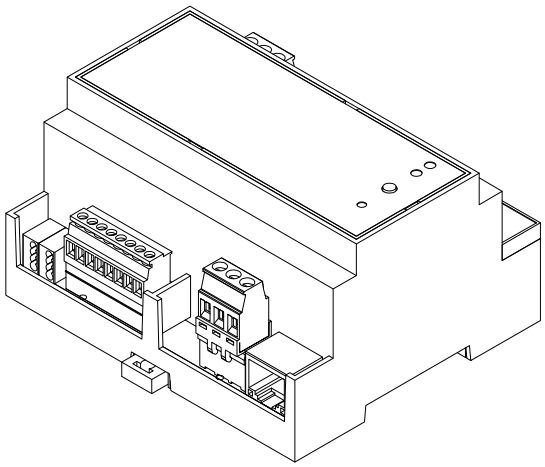
Datasheet – **SER3-KNX**

Iddero Home Server 3

241031-02

MAIN FEATURES



Compact home automation server for visualisation and control of KNX installations from a smartphone or tablet using the Iddero Mobile app (iOS / Android), or from any device equipped with a standard web browser. Installation on 35mm DIN rail in distribution boxes and electrical cabinets.

- Function highlights:
  - Control and monitoring of KNX devices
  - User-friendly navigation through floorplans and zones
  - Up to 512 configurable pages, with up to 8 control functions per page (more than 4000 functions)
  - Customizable background images
  - User-editable scenes
  - Weekly time schedules
  - Alarm monitoring with event log
  - Presence simulation with day and night schedules
  - Event notifications via push, e-mail and GSM (*)
  - Voice control through Amazon Alexa (**)
  - Logic functions (logic gates, comparators, timers, expressions, etc.)
  - 8 independent thermostats
- Remote control from smartphones, tablets, and PCs
- 8 multi-function inputs, individually configurable as binary or temperature probe inputs
- Real-time clock (RTC) with backup battery
- Integrated KNX bus coupling unit
- Ultra-low power consumption
- Compact size (6 DIN elements)

(*) DW-GSM expansion module required for GSM notifications
(**) Requires Iddero Voice Control service. Please check availability.

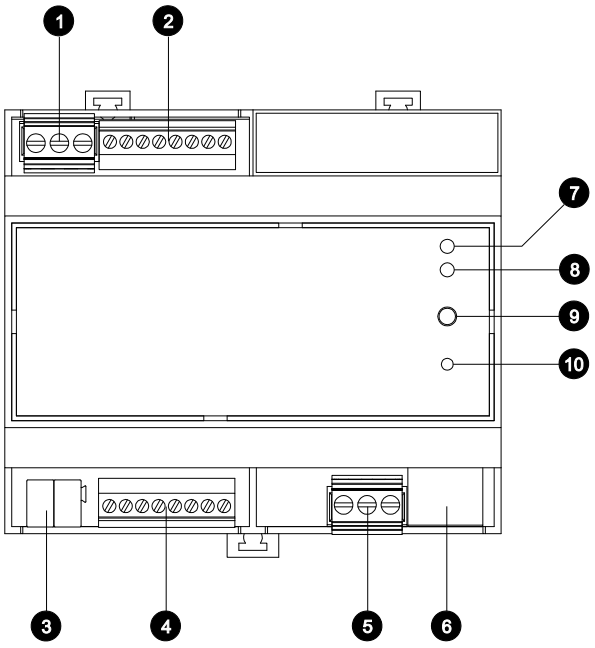
TECHNICAL SPECIFICATIONS

Mechanical	Form factor		35 mm DIN-rail mount enclosure (EN 50022)
	Enclosure material		Self-extinguishing material, UL94-V0 or better
	Degree of protection		IP20 (DIN EN 60529)
	Dimensions		105 x 86 x 58 mm (6 DIN elements)
	Weight		215 g
Environment	Storage temperature		-25..80 ºC
	Operating temperature		0..60 ºC
	Relative humidity		10..90% (non-condensing)
Power supply	Supply voltage		12-30 VDC
	Power consumption		1.6 W typical, 3.9 W maximum
	Connection		Pluggable terminal block, 5.00 mm pitch
	Recommended wiring		Conductor section 1.5 mm^2
	Power supply unit (included)		12 VDC / 15 W PSU, DIN-rail mounted. Width: 25 mm Input voltage 85-264 VAC @ 50-60 Hz
Communications	KNX	Type	KNX TP1 bus
		Connection	Standard KNX TP1 connector
		Consumption	Typ. 4 mA @ 29 VDC
	Ethernet	Type	Ethernet 10/100 BASE-T interface
		Connection	RJ45 modular connector
		Rec. wiring	Twisted pair, 0.5 mm^2 section (CAT5)
	Expansion	Type	RS-485 bus
		Connection	Pluggable terminal block, 5.00 mm pitch
		Rec. wiring	Twisted pair, 0.5 mm^2 section (CAT5)

Inputs	Number of inputs		8 independent inputs
	Type		Individually configurable as binary (pushbutton and switch/sensor modes) or temperature probe inputs
	Connection		Pluggable terminal block, 3.5 mm pitch
	Rec. wiring		Conductor section 0.2 to 1.5 mm^2
	Binary inputs	Contact type	Dry voltage contact between the two input terminals
		Detection time	Typical 50 ms (switch/sensor mode)
		Pulse width	Minimum 10 ms (pushbutton mode)
		Cable length	Maximum recommended length: 50 m
	Temp. probe		External temperature probe, ref. TS-N1PB / TS-GLASS
Misc.	Buttons		Reset / install mode button (RESET / PRG) Default settings button (DEFAULTS)
	Indicators		3-colour status LED (STATUS) Ethernet activity LED (LAN) Buzzer
Real time clock	Drift		± 20 ppm @ 25ºC
	Battery backup		CR1220 3V, 35 mAh
Compliance	Directives		Directive 2014/30/EC Directive 2011/65/EC Directive 2012/19/EC
	Standards		EN 63044-3:2018 EN 63044-5-1:2020 EN 63044-5-2:2020 EN 50491-2:2011 EN 63000:2018 EN 50419:2006

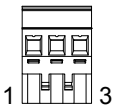
Specifications subject to change without notice.

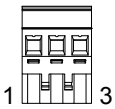
CONNECTORS AND OTHER ELEMENTS



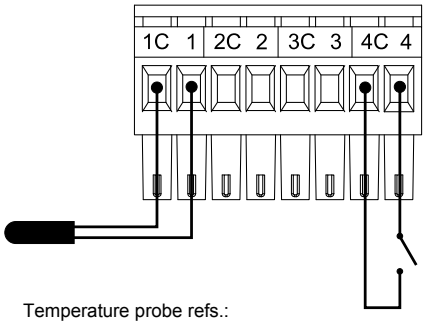
1. Power supply connector
2. Input connector (inputs 5-8)
3. KNX TP1 bus connector
4. Input connector (inputs 1-4)
5. Expansion connector (RS-485)
6. Ethernet connector
7. STATUS LED indicator
8. LAN LED indicator
9. RESET / PRG button
10. DEFAULTS button

Power supply and expansion connectors

Power supply connector		
	**Pin**	**Description**
	1	Reserved. Do not connect.
	2	Power supply return
	3	12-30 VDC

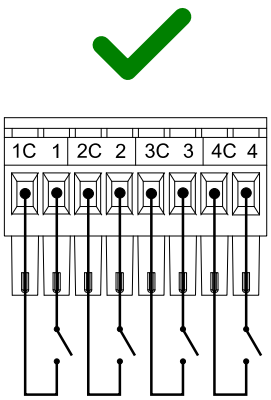
Expansion connector (RS-485)		
	**Pin**	**Description**
	1	Signal ground
	2	DATA-
	3	DATA+

Input connection

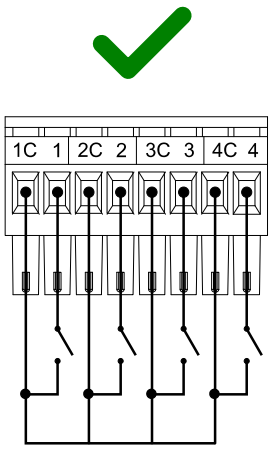


Temperature probe refs.:
Iddero TS-N1PB / TS-GLASS

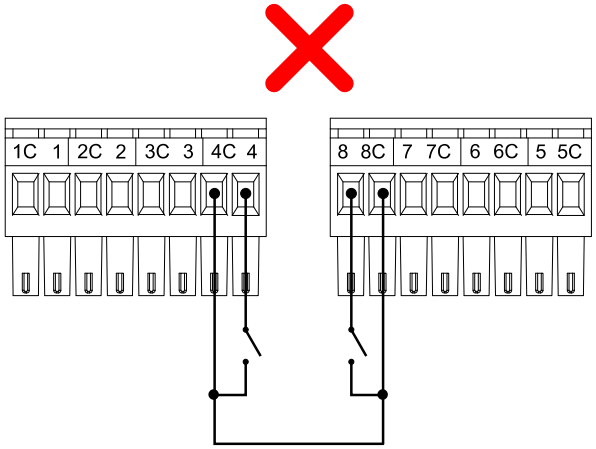
Connection examples:



Separate common terminals: **OK**



Wiring together common terminals within the same input block: **OK**



Wiring together common terminals from different input blocks: **NOT OK**

IMPORTANT: *Only qualified electricians should install, service, or manipulate this equipment. Existing regulations for the prevention of accidents must be observed, as well as any national or local codes and regulations and standard safety precautions.*

This product is an electronic device containing batteries, and must not be disposed of in household waste. At the end of its life cycle, the product must be taken to an electric and electronic waste collection facility. Before that, batteries must be removed from the device and taken to a battery collection point.