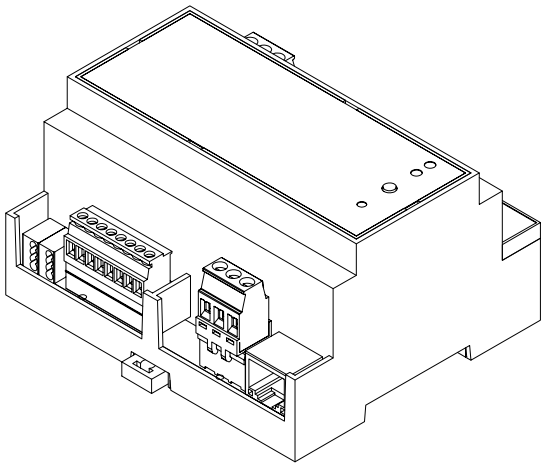
Datasheet

SER1-KNX – Iddero Home Server

150304-02

MAIN FEATURES



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

- Function highlights:
  - User-friendly navigation through floor plans and zones
  - Control and monitoring of any KNX device
  - 4 independent thermostats
  - HVAC control
  - Scene controller
  - Weekly time schedules
  - Technical alarm monitoring with event log
  - Presence simulation with day and night schedules
  - Logic functions (logic gates, comparators, timers, etc.)
  - Notification of KNX events by e-mail
  - GSM remote control and event notification (requires GSM expansion module)
- Includes 8 multi-function inputs:
  - 4 binary inputs
  - 4 inputs configurable as binary or temperature probe inputs
- Real-time clock with backup battery
- Integrated KNX bus coupling unit
- Robust design with no moving parts
- Ultra-low power consumption
- Compact size (6 DIN elements)

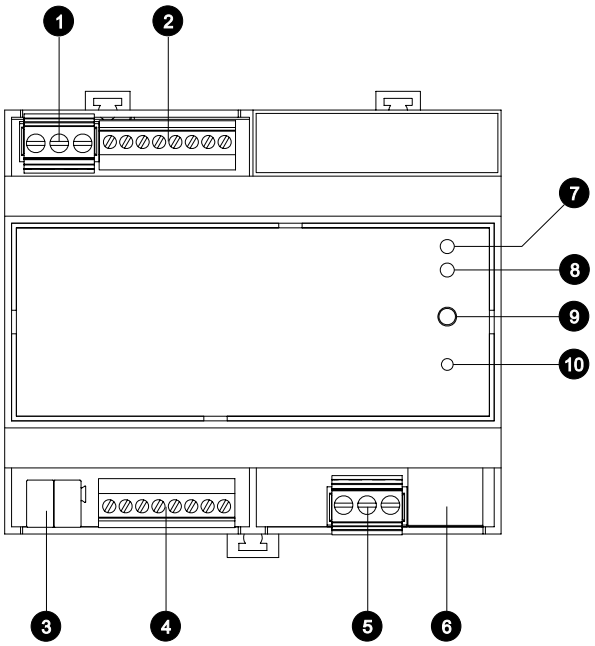
TECHNICAL SPECIFICATIONS

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		Nominal supply voltage 12 VDC
	Power consumption		1.7 W typical, 2.7 W maximum
	Connection		Pluggable terminal block, 5.00 mm pitch
	Recommended wiring		Conductor section 1.5 mm^2
	Power supply unit		15 W PSU included, DIN-rail mounted. Width: 25 mm Input voltage 85-264 VAC @ 50-60 Hz
Communications	Ethernet	Type	Ethernet 10/100BASE-T interface
		Connection	RJ45 modular connector
		Rec. wiring	Twisted pair, 0.2 mm^2 section (CAT5)
	KNX	Type	KNX TP1 bus
		Connection	Standard KNX TP1 connector
		Rec. wiring	Standard KNX TP1 cable
	Expansion	Type	Communications protocol over RS-485 bus
		Connection	Pluggable terminal block, 5.00 mm pitch
		Rec. wiring	Twisted pair, 0.5 to 1.5 mm^2 section

Inputs	Number of inputs		8 independent inputs
	Type (inputs 1-4)		Individually configurable as binary (switch/sensor mode) or temperature probe inputs
	Type (inputs 5-8)		Binary (switch/sensor mode and pushbutton mode)
	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: 100 m
	Temp. probe		External temperature probe, ref. DW-TS-N1PB
Misc.	Buttons		Reset / install mode button (RESET / PRG) Default settings button (DEFAULTS)
	Indicators		3-colour status LED (STATUS) Ethernet activity LED (LAN) Buzzer
Compliance	Directives		Directive 93/68/EC Directives 2004/108/EC Directives 2002/95/EC and 2002/96/EC
	Standards		EN 61000-6-1 (EMC: Electromagnetic immunity) EN 61000-6-3 (EMC: Electromagnetic emissions) EN 50090-2-2 (Home and building electronic systems. General technical requirements)

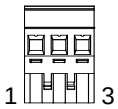
Specifications subject to change without notice.

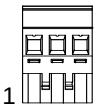
ELEMENTS



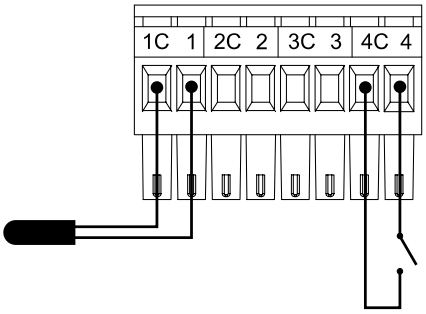
1. Power supply connector
2. Input connector (inputs 5-8)
3. KNX TP1 bus connector
4. Input connector (inputs 1-4)
5. Expansion connector (RS-485)
6. Ethernet connector
7. STATUS LED indicator
8. LAN LED indicator
9. RESET / PRG button
10. DEFAULTS button

Power supply and expansion connectors

Power supply connector (12 VDC)		
	**Pin**	**Description**
	1	Reserved. Do not connect.
	2	Power supply return
	3	+12 VDC

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

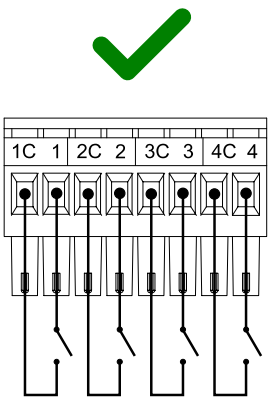
Input connection



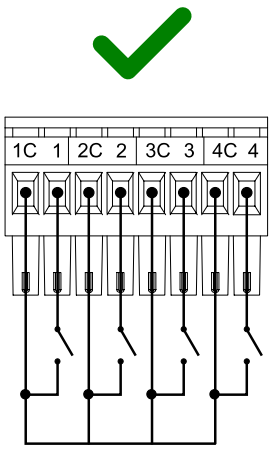
Temperature probe connection
(Inputs 1-4)
Temperature probe ref. Iddero DW-TS-N1PB

Binary input connection
Inputs 1-4: Switch/sensor mode
Inputs 5-8: Switch/sensor and pushbutton modes

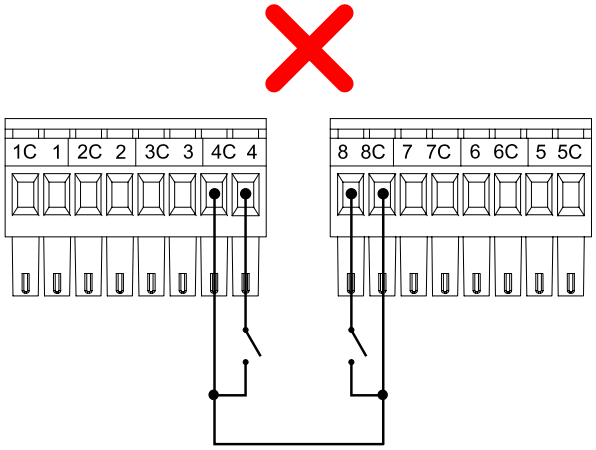
Connection examples:



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.*