KLIC-DA

KNX Interface for Hydrobox LT Climate Systems

ZN1CL-KLIC-DA **Technical Documentation**

FEATURES

- KLIC-DA allows half-duplex communication with hydrobox LT climate systems.
- Reduced size: 90 x 60 x 35 mm (2 DIN units).
- No external power supply required other than the bus.
- DIN rail unit assembly (EN 50022), with snap fit clamp.
- KNX bus coupling unit integrated.
- CE compliant.

Programming/test button: short button press to set the programming mode. If this button is held while plugging the device into the KNX bus, it goes into safe mode.
LED: programming mode indicator (red). When the device goes into safe mode, it blinks (red) every half second. During KLIC-DA - hydrobox unit communication, the LED lights in green/blue.
Communication cable: 2-wire cable, direct to P1/P2 connectors that can be found at the hydrobox unit, or in the wired remote control.

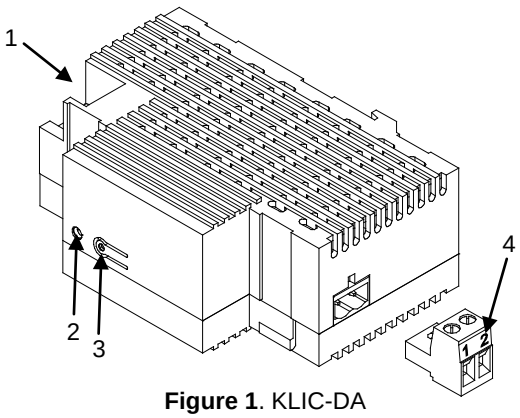

Figure 1. KLIC-DA

1. KNX Connector	**2**. Programming LED	**3.** Programming button
4. 2-wire communication terminal		

GENERAL SPECIFICATIONS				
Concept			**Description**	
Device Type			Electric operation control device	
KNX supply	Voltaqe (typical)		29V DC SELV	
	Voltage range		21…31V DC	
	Maximum consumption	Voltage	mA	mW
		29VDC (typical)	6	174
		24VDC[1]	10	240
	Connection type		Typical bus connector TP1, 0,80 mm² section	
Operation temperature			0ºC to +55ºC	
Storage temperature			-20ºC to +70ºC	
Ambient humidity (relative)			5 to 95% RH (no condensation)	
Storage humidity (relative)			5 to 95% RH (no condensation)	
Complementary characteristics			Class B	
Safety class			III	
Operation type			Continuous operation	
Device action type			Type 1	
Type of protection			IP20, clean environment	
Assembly			Independent control assembly device to be mounted inside of electrical panels with DIN rail (EN 50022)	
Connection KLIC-DA with hydrobox unit			No-polarity 2-wire cable, max. length equal to 500m (not provided)	
Response to bus voltage failure			Complete data saving	
Response to bus failure recovery			Data recovery and commands sending as programmed	
Operation indicator			LED On when pushing programming button (red) or half-duplex communication with the hydrobox unit (green/blue)	
PCB CTI index			175 V	
Enclosure			PC FR V0 halogen free	
Weight			Aprox. 106gr.	

[1] Maximum consumption in the worst case scenario (KNX Fan-In model)

CONNECTIONS TO P1/P2 CONNECTOR DIAGRAM(*)(**)

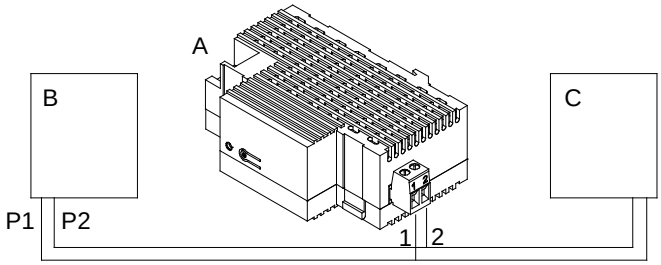

Figure 2: KLIC-DA with wired remote control(***)

A	KLIC-DA
B	Wired remote control
C	Hydrobox unit
P1/P2	Hydrobox unit connection bus
1 - 2	Zennio connection terminal

(*) Only one hydrobox unit per KLIC-DA
(**) Consult compatibility table in www.zennio.com
(***) Follow wired Daikin remote control configuration instructions shown in the user manual

SAFETY INSTRUCTIONS

- Installation should only be performed by qualified electricians
- Do not connect the main voltage (230V) or any other external voltages to any point of the KNX bus. Connecting an external voltage might put the KNX system into risk.
- Ensure that there is enough insulation between the AC voltage cables and the KNX bus.
- The WEEE logo means that this device contains electronic parts and it must be discarded properly following the instructions of http://zennio.com/weee-regulation.