User manual

document version 1.0

DALIusb

DALI ↔ USB (USB-C) convertor
ASCII protocol
MULTIMASTER support
USB power supply
DALI communication signalling
galvanic separation of DALI and USB
switchable DALI power supply

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The **DALIusb** is a DALI to USB converter with a USB-C connector and a built-in DALI bus power supply that can be disabled in finished applications where the DALI power supply is already installed.

It is used for the configuration and control of the DALI bus. DALIconfig configuration and control panel is available free of charge at www.foxtron.eu.

Technical specification		
bus	DALI / DALI2 ↔ USB-C	
DALI source current	128	mA
cross section of wires (DALI)	0,08 – 1,5	mm^2
protection level	IP20	
working ambient temperature	0 ÷ 50	°C
storage temperature	-10 ÷ 70	°C
weight	25	g

Function

For ease of use, the configuration and control program **DALIconfig** is available free of charge on the website www.foxtron.eu, which cooperates with DALIusb.
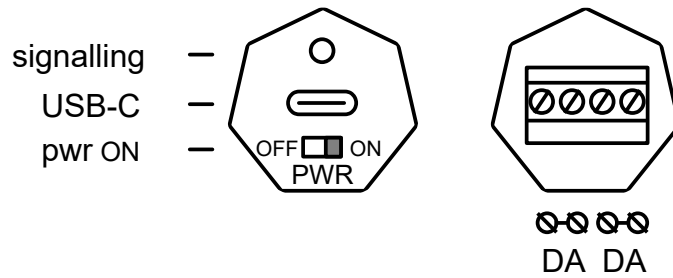
In addition to the program, any application can communicate with the DALIusb converter via the USB port using a simple ASCII protocol. The protocol is described in a separate document that can be downloaded from www.foxtron.eu.

Through the DALIusb converter the control device can send messages to the DALI bus. In addition to standard messages, messages with user-defined lengths can be sent.

DALIusb supports Multimaster (multiple devices that actively send data to the bus). The control device can send data at any time and collisions on the DALI bus are resolved by DALIusb.

DALIusb sends all communication on the DALI bus to the control device. DALI bus responses are sent to the serial link in one message together with the corresponding query, even if the query was sent by another device.

In addition, the control device is informed of collisions on the bus (framing error) and other information such as bus short circuits.

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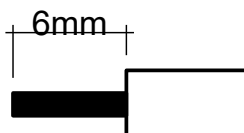| Signalling		
green	permanent light	OK, power supply from DALI bus connected)
	short extinction	incoming data from DALI
	short red blush	data sending to DALI
red	1 blink	shorted or disconnected DALI bus
	2 blinks	main voltage connected to DALI bus
	3 blinks	powered by non-DALI power supply

USB-C
USB port for connecting DALIusb to PC. Depending on the choice of the connection cable, it can also be connected to another USB type (USB-C, USB-A).

pwr ON/OFF	
ON	switch on the DALI source It is necessary to make sure that there is no other DALI source on the DALI bus.
OFF	switch off the DALI source If the DALI bus is powered from another source, the DALI source must be left off.

If we are not sure if the DALI source is installed on the bus, connect DALIusb to the bus with the DALI source OFF. If the green LED lights up after connection, we know that the DALI source is already installed.

Clamps connection	
DA / DA	DALI bus, two clamps interchangeable

wire preparation (DALI)

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DA DA

FOXTRON
DALIusb

OFF ON
PWR

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