







Embedded Systems SIA, VAT No LV40003411103 47. Katolu str., Riga, LV 1003, LATVIA

Phone: +371 67648888, fax: +371 67205036, e-mail: sales@openrb.com

CANx 10 x Push-button inputs / 1 x PT1000 sensor input / Thermostat, flush-mounted

Flush mounted 10 binary inputs / LED control with temperature sensor and thermostat is simply mounted on the backside of the conventional switch and makes it as a canX sensor. In total 10 push buttons can be connected to one device. It acts also like a normal thermostat by having temperature sensor on-board. Each port of the device can be used as output for LED control. Further, the device has PT1000 sensor input.



ENG - Data sheet

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Application

Lighting, HVAC applications

Types of product

CANx 10 x Push-button inputs / 1 x PT1000 sensor input, flush-mounted CAN-UI10

Standards and norms compliance

EMC: EN61000-6-1

EN61000-6-3

PCT Certificate

Technical data:

Power supply: 12 - 32V DC

Power consummation: 11 mA Input mode

Interface: Binary inputs or outputs 10

Voltage if used as output 5V

Current if used as output 5mA (enough for regular LED)

Temperature sensor 1

PT1000 input 1

Clamps: CAN FT Connection Terminal

0.8mm2

Inputs/Outputs Sharp ZH 1.5mm connector

(6pin cables included)

Power supply Connection Terminal 0.8mm2

Operating elements 1 – programming LED

1 – programming button

Enclosure: Material: Polyamide

Color: White

Dimensions: 52(W)x48(H)x15(L) mm

Usage temperature: -5C ... +55C Storage temperature: -20C ... +70C

Weight: 100g Warranty: 2 years



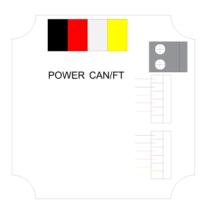
The installation and assembly of electrical equipment may only be performed by skilled electrician. The devices must not be used in any relation with equipment that supports, directly or indirectly, human health or life or with application that can result danger of people, animals or real value

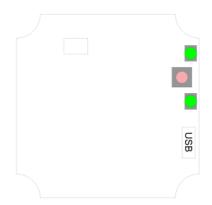
Mounting advice

The devices are supplied in operational status. The cables connections included can be clamped to the housing if required.

Electrical connection

The devices are constructed for the operation of protective low voltage (SELV). Grounding of device not needed. When switching the power supply on or off, power surges must be avoided.





Default settings

Line ID: 0

Node ID: 1

Max. number of group addresses per object: 16

Reset to defaults

Press programming button for 5 seconds, the RED LED blinks 2 times, then release button - GREEN lights up shortly.

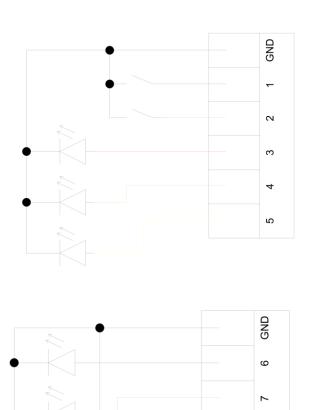


Programming physical address

Press programming button shortly, GREEN LED lights up. After you have programmed address from canX application, it will automatically switch off the LED.

1. Terminal connection scheme CAN-EXT10T

Binary input / LED output

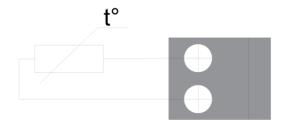


PT1000 Temperature sensor input

8

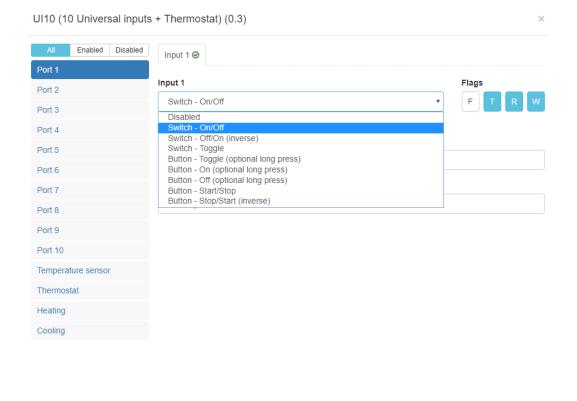
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10



canX software settings

Binary input





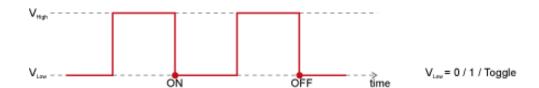
Default flags: read (R), write (W), transmit (T)

Input mode:

Switch on/off – send 1 to bus if switched ON or 0 if switched OFF Switch off/on (inverse) – send 0 to bus if switched ON or 1 if switched OFF Switch Toggle - change status to inverted with every push



Button Toggle (optional long press) – change status to inverted with every push Button On (optional long press) – push 1 to bus every pulse Button Off (optional long press) – push 0 to bus every pulse



Button Start/Stop – send 1 when pushed and 0 when released
Button Stop/Start (inverse) – send 0 when pushed and 1 when released



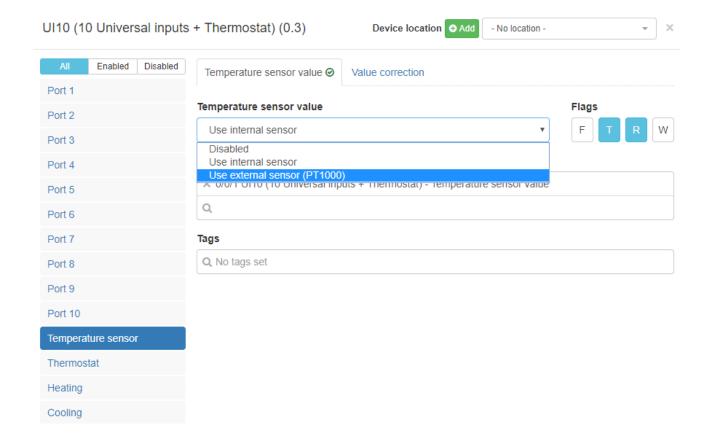
Button long press toggle - Send 0 or 1 to bus with every long press Button long press send 1 - Send 1 with every long press Button long press send 0 - Send 0 with every long press



V_{Low} = 0 / 1 / Toggle



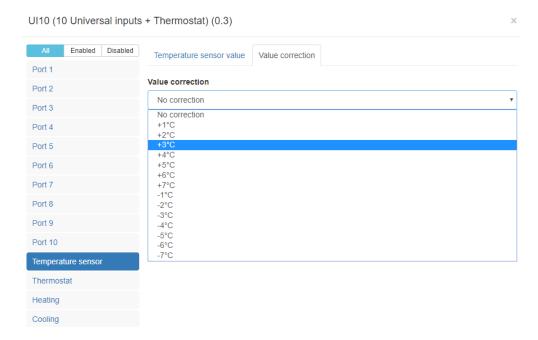
Temperature sensor



Default flags: read (R), transmit (T)

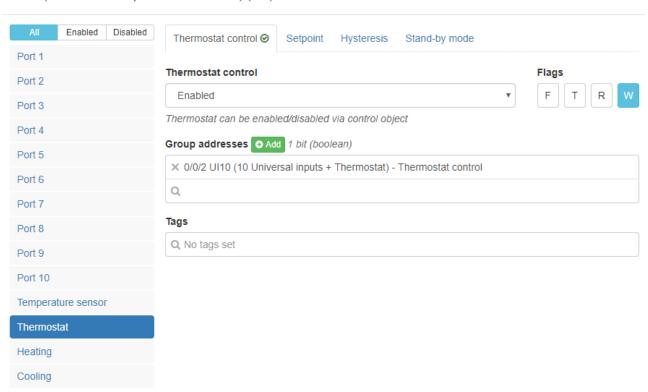
Temperature sensor value: defines either to use internal sensor or externally connected PT1000 sesor

Value correction: temperature value compensation. Used for example in the situation when UIO10 is located in room other than the one we need to control heating/cooling



Thermostat

UI10 (10 Universal inputs + Thermostat) (0.3)



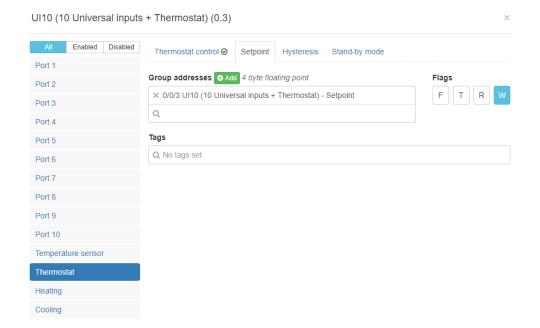
Default flags: write (W)

Thermostat control:

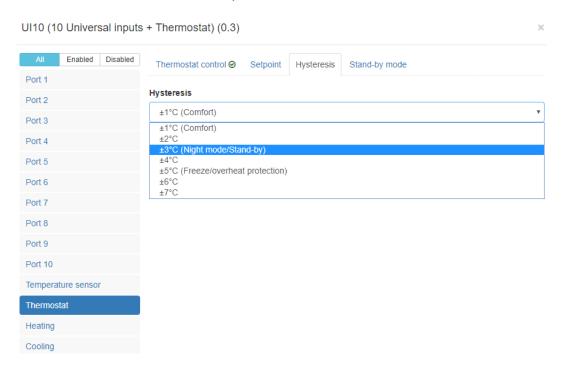
Disabled - thermostat control is disabled

Enabled – thermostat control is enabled

Setpoint: base setpoint settings

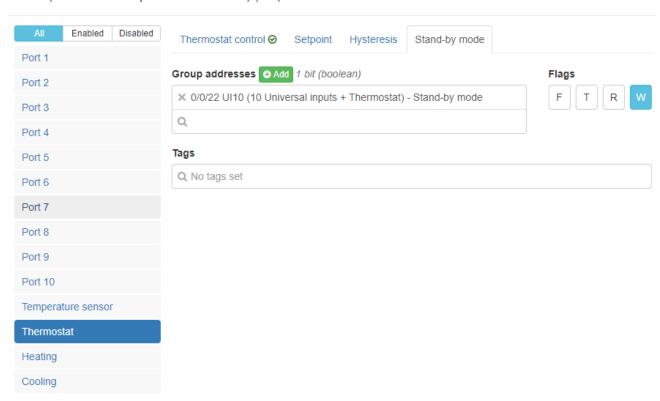


Hysteresis [+-1..+-7C]: interval during which the status will remain as current value. Used to exclude border value instability



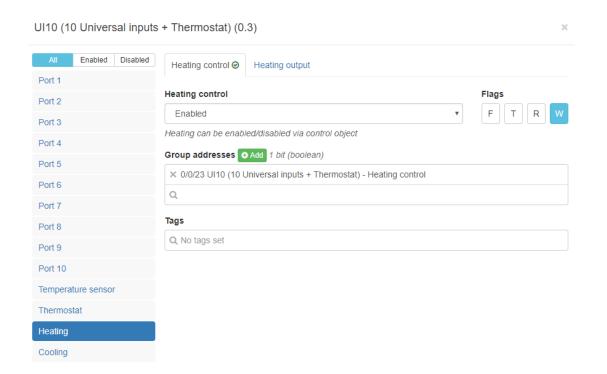
Stand-by mode: Stand-by mode / night mode

UI10 (10 Universal inputs + Thermostat) (0.3)

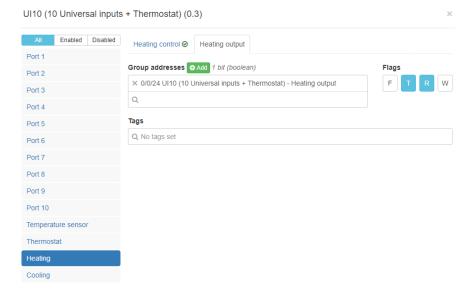


Heating

Heating control: define either enable/disable heating thermostat functionality

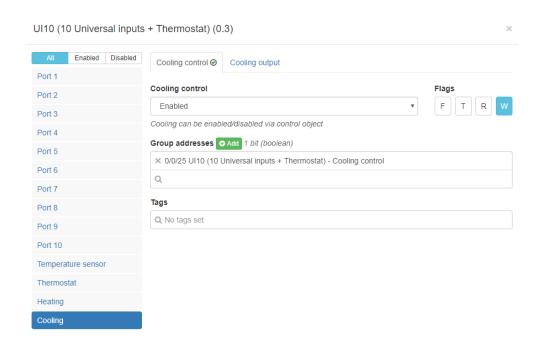


Heating output: define either disable/enable heating output via group address



Cooling

Cooling control: define either enable/disable cooling thermostat functionality



Cooling output: define either disable/enable cooling output via group address

