

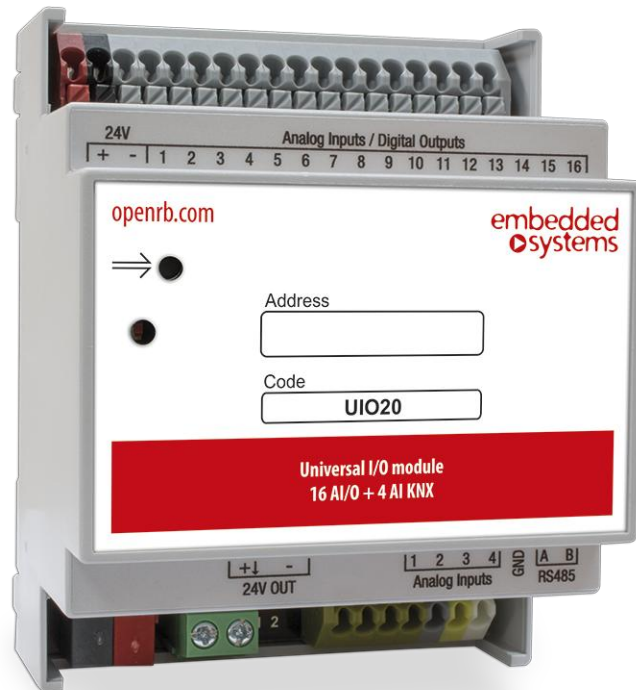
KNX/EIB 20 channel I/O device

ENG - Data sheet

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Application

KNX/EIB 20 channel IO device is designed to be used in meter reading applications or other building automation applications. 4 channels can be used as analog 0-30V inputs, binary inputs. 16 channels can be used as analog 0-30V inputs, binary inputs, digital outputs. The device is designed for DIN-rail mounting and requires 4 DIN-units.



Types of product

UIO20

Universal I/O module 16 AI/O + 4 AI, KNX

Standards and norms compliance

CE conformity:	EMBS-CE-110926/01	Electromagnetic compatibility
EMC:	EN61000-6-1 EN61000-6-3	
PCT	Certificate	

Technical data:

Power supply:	29V DC	KNX/EIB bus
	Power consumption	12 mA
Interface:	KNX/EIB	1
	Universal Inputs/Outputs	16
	Inputs	4
Clamps:	KNX/EIB	1.5mm ²
	Inputs/Outputs	1.5mm ²
Enclosure:	Material:	Polyamide
	Color:	Gray
	Dimensions:	70(W)x91(H)x56(L) mm
Protection:	IP20 according to EN 60529	
Usage temperature:	-5C ... +55C	
Storage temperature:	-20C ... +70C	
Weight:	200g	



Caution

Security advice

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.

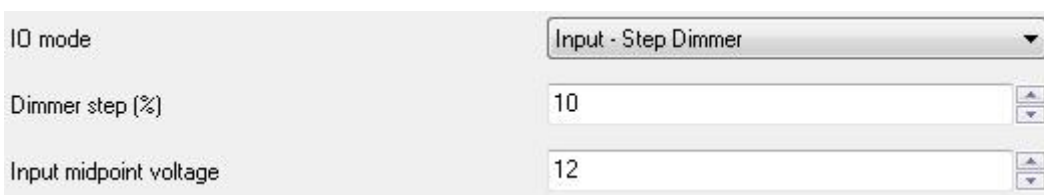
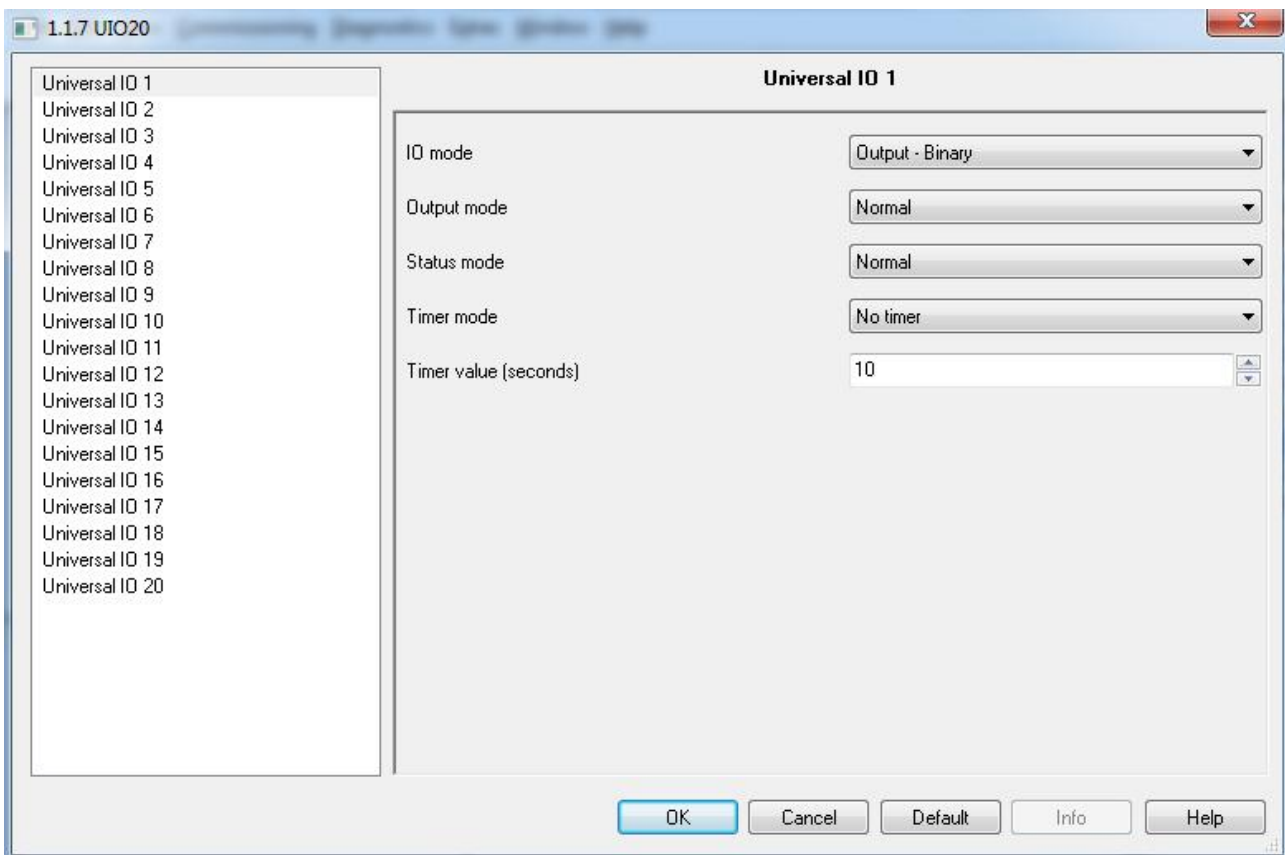
Electrical connection

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.

Terminal connection scheme

17	18	19	20	GND	A	B									KNX+	KNX-				
Analog inputs / Binary inputs				RS485																
Analog Inputs / Binary Inputs / Digital Outputs (including 12 x High frequency PWM)																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					

ETS configuration



IO mode	Input - Relative (4-bit) Dimmer
Input midpoint voltage	12

IO mode	Input - Analogue
Send delta (x0.1 precision)	10
Send timer	30 seconds
Value compensation (x0.1 precision)	0
Value base	0
Value multiplier	1
Value divisor	1

Objects

Nr.	Name	Type	Priority	Read	Write	Transmit
0	In: Output On/Off	1.* Boolean (1.001 switch)	Low	-	W	-
0	In: PWM Output Control	5.* 1-Byte Unsigned (5.001 scaling)	Low	-	W	-
0	Out: Analogue Value	9.* 2-Byte Float	Low	R	-	T
0	Out: Binary Input	1.* Boolean (1.001 switch)	Low	-	W	T
0	Out: Relative Dimmer On/Off	1.* Boolean (1.001 switch)	Low	-	W	T
0	Out: Short Press	1.* Boolean (1.001 switch)	Low	-	W	T
0	Out: Step Dimmer	5.* 1-Byte Unsigned (5.001 scaling)	Low	-	W	T
1	In: Output On/Off	1.* Boolean (1.001 switch)	Low	-	W	-
1	In: PWM Output Control	5.* 1-Byte Unsigned (5.001 scaling)	Low	-	W	-
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1	Out: Short Press	1.* Boolean (1.001 switch)	Low	-	W	T
1	Out: Step Dimmer	5.* 1-Byte Unsigned (5.001 scaling)	Low	-	W	T
2	In: Output On/Off	1.* Boolean (1.001 switch)	Low	-	W	-
2	In: PWM Output Control	5.* 1-Byte Unsigned (5.001 scaling)	Low	-	W	-
2	Out: Analogue Value	9.* 2-Byte Float	Low	R	-	T
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2	Out: Relative Dimmer On/Off	1.* Boolean (1.001 switch)	Low	-	W	T
2	Out: Short Press	1.* Boolean (1.001 switch)	Low	-	W	T
2	Out: Step Dimmer	5.* 1-Byte Unsigned (5.001 scaling)	Low	-	W	T
3	In: Output On/Off	1.* Boolean (1.001 switch)	Low	-	W	-
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11	In: PWM Output Control	5.* 1-Byte Unsigned (5.001 scaling)	Low	-	W	-
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