Extension unit Box 485-4

Art. No.: 460006

Installation manual

$C \epsilon$

Box485-4_manual_ENGmay15

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1. Introduction

Box 485-4 is a door control unit, used togehter with CT2000 keypad. The unit is delivered in a white plastc boxfor cabling included.

Box 485-4 is typically used if one CT2000 keypad is to control more than one output.

Typical applications:

- Where CT2000 normal functions shall be combined with keypad's bell button.

- Silent attack combined with e.g. access to alarm on/off switch or door opening.

- Access to alarm to on/off switch, if extra safety required.

2. Electric connections

12V: +12 VDC
GND: 0 VDC (minus)
A: Connection to data bus via RS485, in-/output A, blue wire
B: Connection to data bus via RS485, in-/output B, orange wire
SAB: Tamper switch
SAB: Tamper switch
C: Relay output - common
NO: Relay output - normally open
NC: Relay output - normally closed

3. Programming

Box 485-4 is from the factory delivered with a standard programming. Further programming can be made through the PC Interface (PCI2000 or LogBox3).

3.1 Programming positions

Position	Programming
100	Address (ID number) of first slave (keypad)
101	Address (ID number) of second slave (keypad)
102	Address (ID number) of Box 485-4
103	Relay mask for relay 1
104	Relay mask for relay 2
105	Relay mask for relay 3
106	Relay mask for relay 4
107	Pre-activation time of slave relay 3 (master relay is relay 1)
108	Pre-activation time of slave relay 4 (master relay is relay 2)
109	Relay activation time for exit button, ¼ second
110 to 122	Allowed time zones for the first and second slave keypad, reserved for future development
123	Active mask, reserved for future development

3.2 Default programming

Position	Value	Programming
100	1	Address (ID number) of first slave (keypad)
101	1	Address (ID number) of second slave (keypad)
102	200	Address (ID number) of Box 485-4
103	incactive	Relay mask for relay 1 is group 0, 1, 2 and 3
104	inactive	Relay mask for relay 2 is group 4, 5, 6 and 7
105	inactive	Relay mask for relay 3 is group 8, 9, 10 and 11
106	inactive	Relay mask for relay 4 is group 12
107	0	Pre-activation time of slave relay 3 is 0
108	0	Pre-activation time of slave relay 4 is 0
109	4	Relay activation time for exit button, 1 second
110 to 122	255	Reserved for future development **(must be value 255)**
123	127	Reserved for future development **(must be value 127)**

3.3 Address (ID number) for slave keypads (100 and 101)

Keypads (CT2000) connected to RS485 data bus are distinguished from each other by assigning them each an address (ID number). When a code is entered on one of the keypads in an installation, carrying an address (ID number), Box 485-4 reacts in accordance with its programming.

As default the programming positions 100 and 101 are set to 1 for both the first and second slave keypad.

3.4 Addess (ID number) for Box 485-4

Box 485-4, just like keypads, must carry an address (ID number), to enable division between different units on RS485 data bus.

Address in the programming position 102 is by default set to 200.

3.5 Relay mask for relays 1 - 4 (103 to 106)

These programming positions specify how the Box 485-4's relay outputs shall react to entering valid user codes on CT2000.

There are no values in these programming positions. Please use the Box 485 overview screen on Conlan eXPress software.

3.6 Pre-activation time for slave relay 3

Value in this programming position specifies how long relay output 3 shall stay active, if relay output 1 is active (master relay).

Value in position 107 is by default set to 0, which equals to 0 seconds.

3.7 Pre-activation time for slave relay 4

Value in this programming position specifies how long relay output 4 shall stay active, if relay output 2 is active (master relay).

Value in position 108 is by default set to 0, which equals to 0 seconds.

3.8 Relay activation time for exit button (109)

Value in this programming position specifies how long these of the Box 485-4's relay outputs, which are programmed to be active in this situation, shall react to an activation of the bell button on the first or second slave keypad. Programming time intervals are ¼ second, e.g. 4 = 1 second and 16 = 4 seconds.

Value in programming position 109 is by default set to 4, which equals to 1 second.

3.9 Allowed time zones for slave keypads (110 - 122)

These programming positions are reserved for future development of the system and are not used at the moment.

They are by default set to 255.

> Note that programming positions 110 to 122 are reserved for future development.
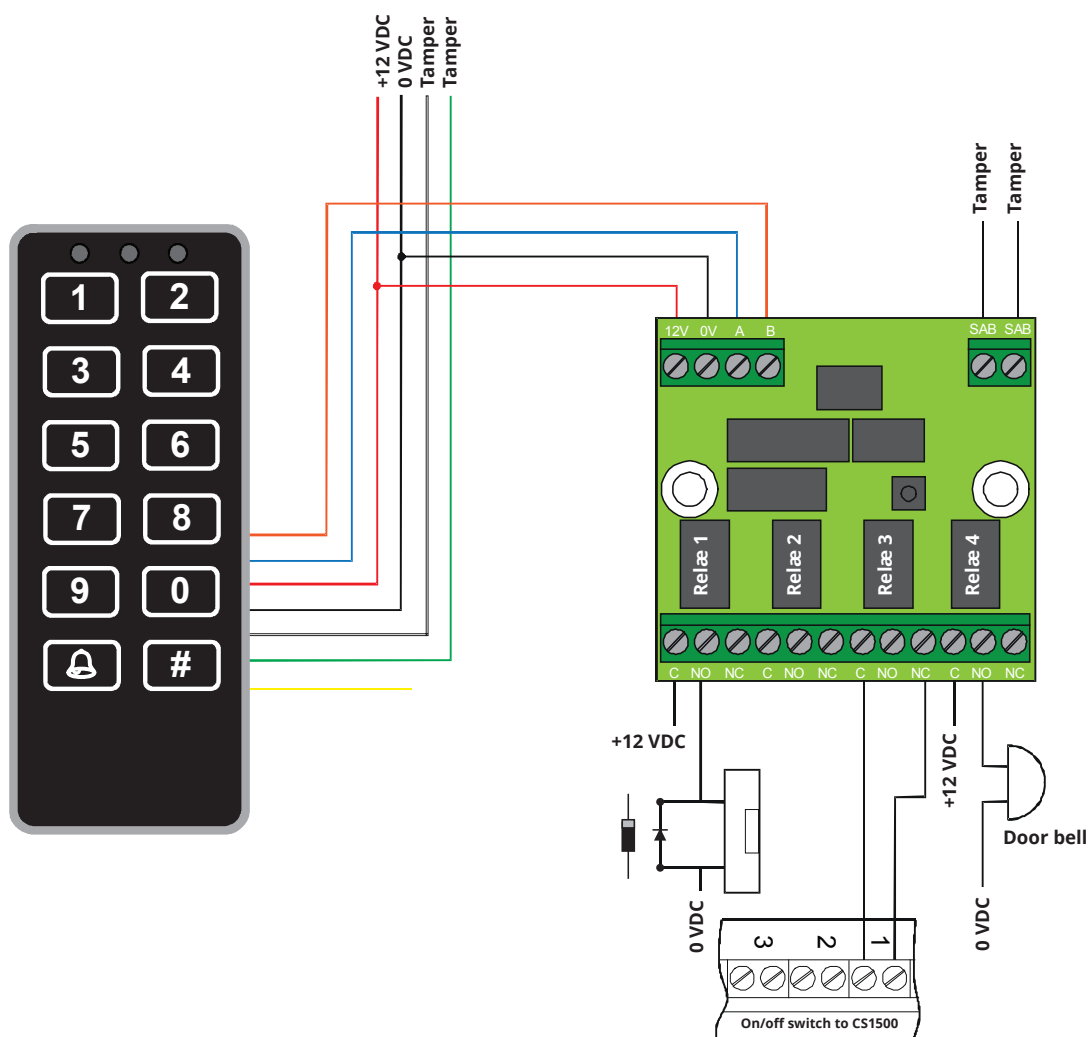
3.10 Active mask

This programming position is reserved for future development of the system and is not used at the moment.

It is by default set to 127.

> Note that programming position 123 is reserved for future development. It <u>must always</u> be set to 127, otherwise the Box 485-4 <u>does not work</u>.

4. Installation example

5. Technical specifications

Supply voltage:	+12 VDC
Voltage interval:	10 to 15 VDC
Ripple voltage:	max. 500 mVpp
Current consumption:	20 to 100 mA
Relay outputs:	4 pcs. NC/C/NO (max. 24V / 1A)
Tamper switch:	Mechanical contact (100 mA)
Operating temperatures:	0°C to +85°C
Humidy:	max. 85% RF
Dimensions HxWxD:	88,5x65,5x30 mm

6. Programming with Conlan eXPress

	Indtast enhedens navn og lokalisering
	Vælg første slaveenhed
	Vælg anden slaveenhed
	Enhed ID
	Modtag data fra enhed
	Send data til enhed

Relay Extension Unit

Unit name: BOX485-4(id:200, prog.ver.:7)
Location: Enter Unit Location
First slave unit: (1) UNit with id 1
Second slave unit: (2) UNit with id 2
Unit ID: 200
Preactivation time Relay 3: Independent
Preactivation time Relay 4: Independent
Bell activation time: 1 sec

Receive
Transmit
OK

	Relay 1	Relay 2	Relay 3	Relay 4
Group 0	Active	Inactive	Inactive	Inactive
Group 1	Active	Inactive	Inactive	Inactive
Group 2	Active	Inactive	Inactive	Inactive
Group 3	Active	Inactive	Inactive	Inactive
Group 4	Inactive	Active	Inactive	Inactive
Group 5	Inactive	Active	Inactive	Inactive
Group 6	Inactive	Active	Inactive	Inactive
Group 7	Inactive	Active	Inactive	Inactive
Group 8	Inactive	Inactive	Active	Inactive
Group 9	Inactive	Inactive	Active	Inactive
Group 10	Inactive	Inactive	Active	Inactive
Group 11	Inactive	Inactive	Active	Inactive
Group 12	Inactive	Inactive	Inactive	Active
Bell	Inactive	Inactive	Inactive	Active

Vælg før aktiveringstid for 1. og 2. relæ

Bekræft enhedens indstillinger

Vælg klokkens aktiveringstid

Vælg aktiv - inaktiv mode

Thank you for choosing Conlans products.

For futher information, please contact our support service.