

Neets Control - OsCar



How does it work?

Foreword:

The purpose of this document is to describe how to install and configure the Neets Control – OsCar DK and EU models.

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CHANGES - Neets reserve the right to change the specification and functions of this product without any notice.

Questions, AFTER reading this manual, can be addressed to your local dealer or:

Neets

by E-Mail: Support@Neets.dk

or you may use our contact form at www.neets.dk

Revision list:

Author:	Date	Description	Pages
TSA	07/03-12	First release.	All
MH	08-07-14	Changed photo of BraVo to OsCar (backside)	3

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Description:

Neets Control – OsCar is a small, but intelligent control system with a minimum of buttons, which makes it very simple to use.

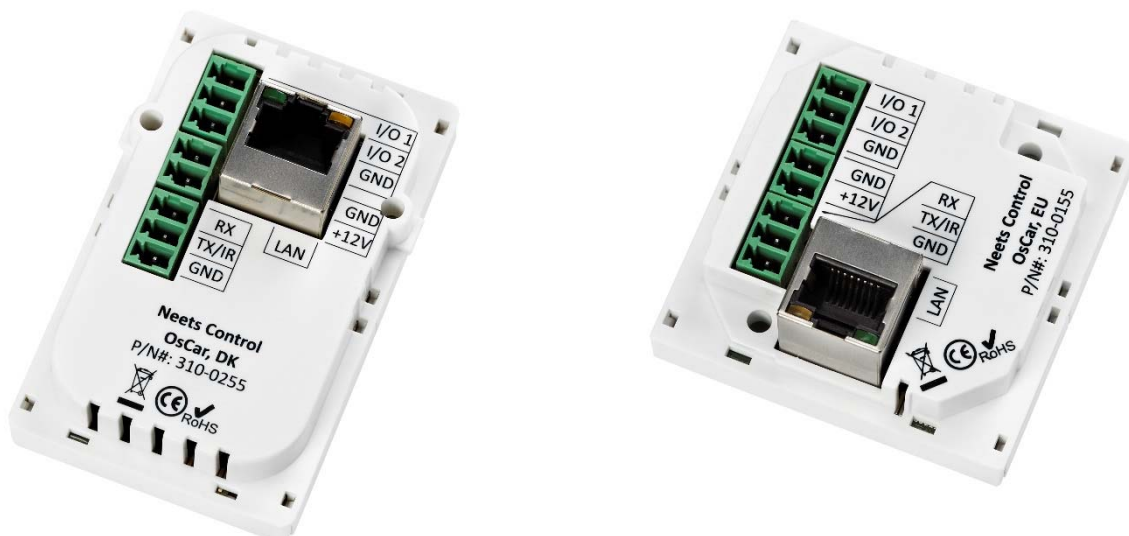
With Neets Control – OsCar anyone can start up a presentation without an introduction - just press ONE button and you are ready to begin!

Neets Control – OsCar is perfect for the classroom and easy to install.

Front view:



Back view:

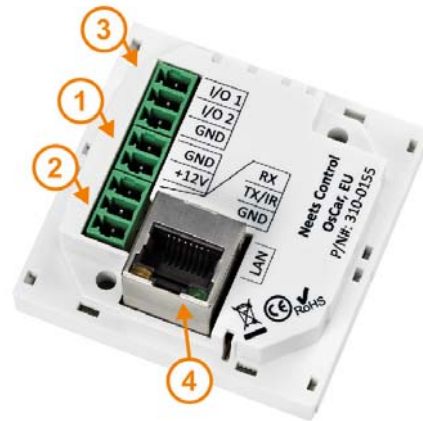


Description	Neets Control - OsCar
RS-232 (Tx) / IR (controls 1 device)	1
I/O	2
Buttons	4
LED (Color: Red)	4
USB port for programming	1
PIR sensor input	Yes
Light on/off	Yes
Room darkening	Yes
Screen up/down	Yes
Volume control	Yes

Connections on units



DK version



EU version

Number	Description
1:	External 12V DC input
2:	RS-232 or IR control out
3:	Input/Output
4:	LAN connector

Technical description

Technical details:	
RS-232	Baud: 1200-115200 Data bit: 7/8 Parity: none, even, odd Stop bit: 1/1,5/2
IR	Transmit 381 Hz – 500 KHz
LAN	10/100 MBit
Input	Sense low < 1 VDC Sense high > 4 VDC
Output	Open drain Max voltage: 24 VDC Max current: 0,5 A
Power	12VDC (110-230VAC Adapter included)

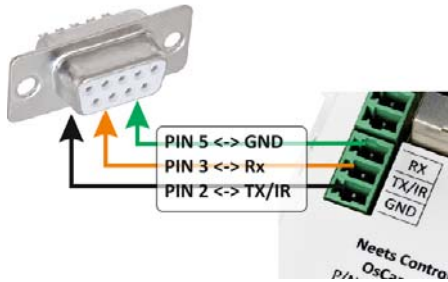
USB

The USB port can only be used to program the Neets Control – OsCar from the Neets Project designer software. It cannot be used to control any devices what so ever. From the USB you can also power the system. This is to be used in programming situations, so you do not have to connect 12VDC to the unit to program it. The USB connector needed to connect to the Neets Control – OsCar is of the type mini USB B 5P. You can either buy this cable from Neets or via the web (buy a USB A to Mini USB B 5P). The cable type is also widely used for MID devices, compact cameras and so on.

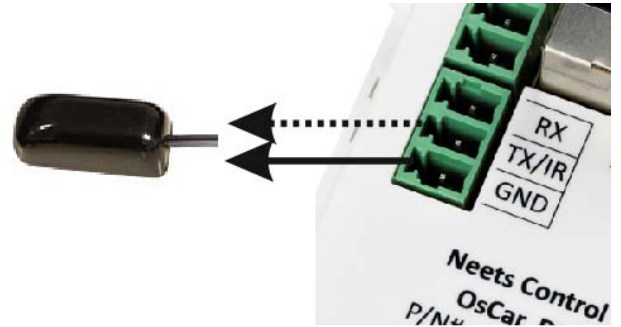


IR/RS-232 port

The OsCar has 1 port (TX/IR and RX) which can be configured (in software) either as RS-232 or as IR emitter.



When used as RS-232 port:
Connect the device to TX/IR, RX and GND, as shown here above.



When used as single IR port:
Connect the IR emitter TX/IR (white striped wire) and GND, as shown here above.

I/O Ports

The Neets Control – OsCar has 2 I/O onboard. They can be used for external keyboard, PIR (movement) sensor, keyboard lock, extra relays and so on.

The ports are not potential free, which means you will need external relays, if you need to prevent e.g. ground loops.



When used as output they are active low (when the software says activated, the pin are tied to GND through a FET transistor - also called open drain/collector function). You can draw up to 24VDC/500mA.

When used as input the voltage has to be below 1 Volt DC to be accepted as LOW, and above 4 VDC (but below 24 VDC) to be accepted as high.

LAN

The network connector is for connecting the system to the local area network.

There are two LED's on the connector. They have the following meaning:

Color:	Off	On	Blink
Yellow	No Link	Link	Activity
Green	10Mbit	100Mbit	

Default IP settings are:

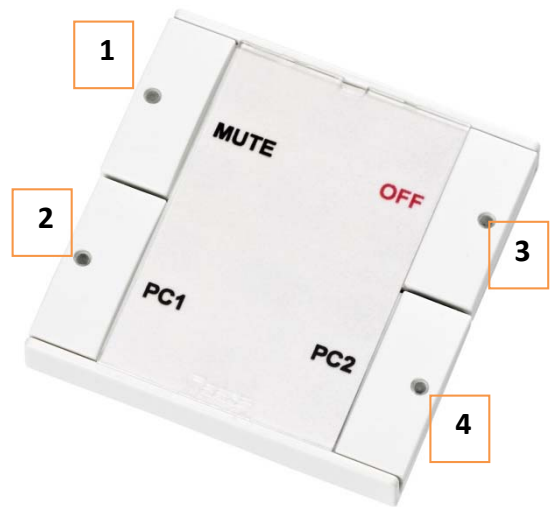
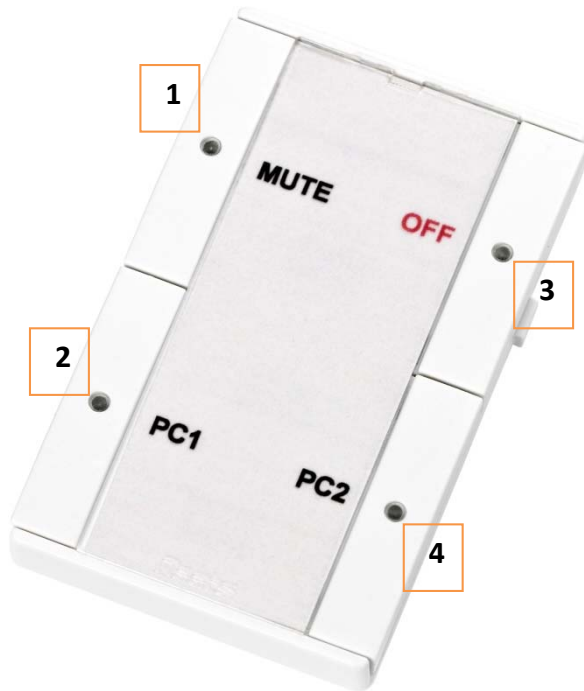
IP address: Uses DHCP
Subnet: 255.255.255.0
10/100Mbit: 100mbit full duplex



DHCP: Enabled

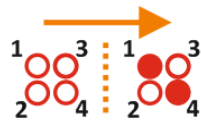
Fault finding

When errors occur the LED will indicate this. The following will give you a guide to find these errors. In the Neets Control – OsCar the LED's are placed here:



Fault		Solution
Unexpected Error		There are properly problems in the project you have uploaded. Try e.g. to upload an empty project and see if this works or contact Neets or your local dealer.
Error in serial number		During the production of the unit, something has gone wrong. You need to return the unit to Neets or your local dealer for replacement/repair.
Unable to start the project		This scenario only happens, when there is a problem in the project you have uploaded. In this case e.g. try to upload an empty project and see if this works - or contact Neets or your local dealer.

System are resuming
factory default
settings



When pressing Switch 1 and 2 during power on,
the system will delete the current settings and
resume factory default.

This method is only intended to be used, if the
control system locks up and enters “Unexpected
Error”.