

NEO PLUS

OEM

HVAC + R

CABIN / MUX



NEO1 PLUS



NEO2 PLUS



NEO3 PLUS

MAIN FUNCTIONS

REFRIGERATION

HEATING

VENTILATION

AIR DIRECTION

MULTIPLEX

CABIN CONTROL

CHARACTERISTICS

- Innovative design
- Dynamic RGB backlight
- Available as HMI - Human Machine Interface (CAN Bus)
- Function Hourmeters
- Graphic 128x64px OLED Display
- Circular Graphic 128x128px OLED Display
- Operation Screen with client logo
- 10 selectable languages via menu



Ventilation function active



Heating function active



Cooling function active

AVAILABLE FOR



CHOOSE BETWEEN HORIZONTAL OR VERTICAL (i) FORMATS

INTERFACE POSITIONS



POWER SWITCH

VENTILATION KNOBS
3-speed 16A@12V AND 10A@24V
4-speed 25A@12V AND 15A@24V

* Not available in Neo 3 Plus central position

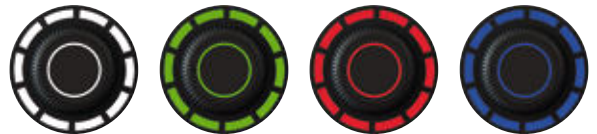


POTENTIOMETER / ENCODER

POTENTIOMETER WITH 22, 10, 5 OR 3 POSITIONS
Central button available



ENCODER WITH CENTRAL BUTTON
Dynamic RGB backlight available



DISPLAY

OLED GRAPHIC DISPLAY 128x64px
Horizontal and vertical positions available



CIRCULAR OLED GRAPHIC DISPLAY 128x128px
Customized operation screen



2-DIGIT 7-SEGMENT LED DISPLAY
4-button keyboard
2 status LEDs available



BUTTONS

5-BUTTON KEYBOARD
4 status LEDs available



2 INDIVIDUAL BUTTONS
6 status LEDs available



* for Potentiometer / Encoder knob you can include function button

Present a not yet available function and Globus will analyze its development.

FUNCTIONS UNDER REQUEST



WI-FI



BLUETOOTH



CELL PHONE
INTERFACE



CAN BUS



REMOTE I/O
NETWORK



DATA
LOGGER



CUSTOMIZABLE
INTERFACES



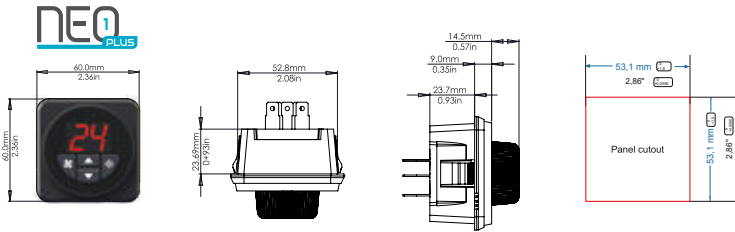
HMI



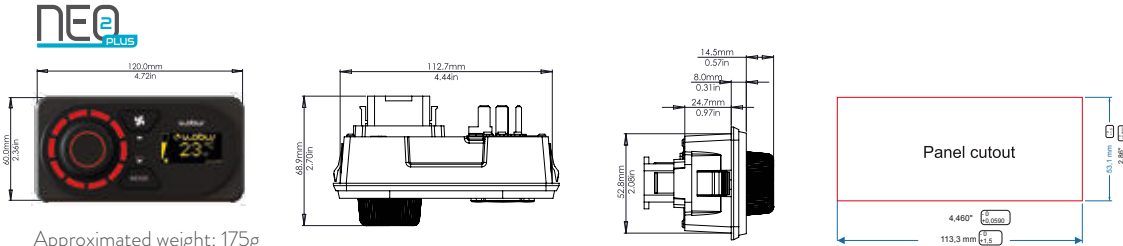
TECHNICAL DATA

OEM

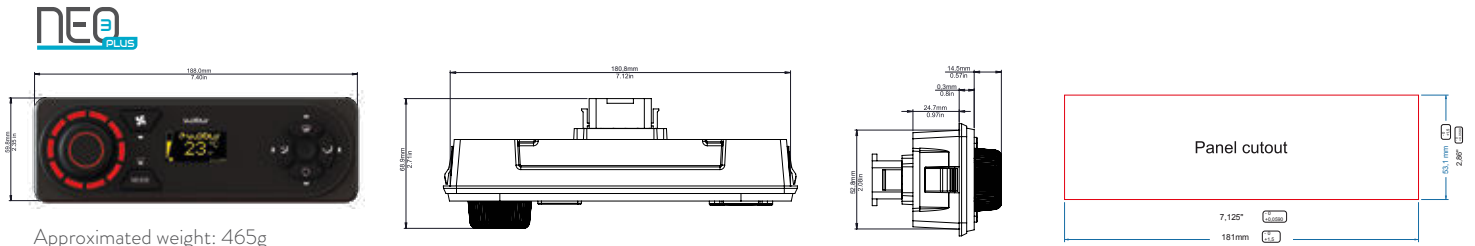
HVAC + R



Approximated weight: 80g



Approximated weight: 175g



Approximated weight: 465g

CONNECTORS



3-SPEED POWER SWITCH
Part Number: 754C3
Manufacturer: Koch Sales



4-SPEED POWER SWITCH
Part Number: 12110047
Manufacturer: Delphi



MATE-N-LOK 15 ways
Part Number: 1-480710 - 0
Terminal - PN: 350689-3
Manufacturer: Tyco Electronics

TECHNICAL DATA

OPERATING VOLTAGE	12 VDC / 24 VDC
OPERATING VOLTAGE RANGE	10 VDC to 30 VDC
MAXIMUM VOLTAGE	32 VDC during 5 min
MAXIMUM CURRENT PER OUTPUT	500mA/5A *
OUTPUT SHORT-CIRCUIT	Protected *
REVERSE POLARITY	Protected *
OPERATING TEMPERATURE RANGE	-40°C to +85°C / -40°F to +185°F
STORAGE TEMPERATURE	-40°C to +125°C / -40°F to +257°F
TEMPERATURE SENSOR	NTC - See individual product description
FRONTAL PROTECTION DEGREE	IP 54
COMMUNICATION	One Wire / CAN Bus
MAXIMUM CURRENT CONSUMPTION (NEO2 Plus)	55mA @ 12 VDC / 30mA @ 24 VDC **
MAXIMUM CURRENT CONSUMPTION (NEO3 Plus)	80mA @ 12 VDC / 40mA @ 24 VDC **
STANDBY CONSUMPTION	10mA @ 12 VDC / 20mA @ 24 VDC **

* According to product configuration. ** Consumption may vary according to customer specifications. We keep the right to update or change information regarding products without prior notice.

NEO 2 PLUS

OEM

HVAC + R

OLED Display, backlit buttons and symbols

CUSTOMIZABLE CLIMATIZATION CONTROL*

- Innovative Design
- Backlit Symbols and Buttons
- Customer logo on the panel (optional)
- Screwless installation
- Designed for heavy-duty applications
- Up to 6 indication LEDs



OEM

HVAC + R

CABIN / MUX

NEO 2 CAN PLUS

Use the panel as an interface and develop your own control logic

COMPLETELY CUSTOMIZABLE HMI*

- HMI – Human Machine Interface
- CAN Bus Communication with ECU
- Knob Position Reading
- Button Status Reading
- LEDs status writing
- Display Writing
- Up to 3 buttons
- Up to 6 indication LEDs



Vertical mounting option

FLEXIBLE AND CUSTOMIZABLE CONTROL FOR HVAC*

- Innovative Design
- Backlit symbols and buttons
- Customer logo on the panel (optional)
- Screwless installation
- Designed for heavy-duty applications
- Up to 6 indication LEDs
- Vertical position installation



PRODUCT CONFIGURATION

Choose the best options for your system

PIN	NEO 2 PLUS POSSIBLE CONFIGURATIONS HARDWARE 1								
1	POWER SUPPLY	OR	--	OR	--	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H1	OR	PWM OUTPUT	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--
4	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	ONE WIRE
7	GND	OR	--	OR	--	OR	--	OR	--
8	GND	OR	--	OR	--	OR	--	OR	--
9	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
10	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
11	GND	OR	--	OR	--	OR	--	OR	--
12	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
13	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	ANALOG INPUT	OR	DIGITAL INPUT
14	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H2	OR	PWM OUTPUT	OR	CAN L
15	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	CAN H



PRODUCT CONFIGURATION

NEO 2 PLUS POSSIBLE CONFIGURATIONS HARDWARE 2									
1	POWER SUPPLY	OR	--	OR	--	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H1	OR	PWM OUTPUT	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H2	OR	PWM OUTPUT	OR	CAN L
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	CAN H
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	
7	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	ONE WIRE
8	GND	OR	--	OR	--	OR	--	OR	--
9	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	---
10	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
11	GND	OR	--	OR	--	OR	--	OR	--
12	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
13	GND	OR	--	OR	--	OR	--	OR	--
14	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
15	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--

OLED Display, backlit buttons and symbols

CUSTOMIZABLE CLIMATIZATION CONTROL*

- Innovative Design
- Backlit symbols and buttons
- Customer logo on the panel (optional)
- Screwless installation
- Designed for heavy-duty applications
- Up to 8 buttons
- Up to 10 indication LEDs
- Standard DIN radio size



Vertical mounting option

FLEXIBLE AND CUSTOMIZABLE HVAC CONTROLLER*

- Innovative Design
- Backlit symbols and buttons
- Customer logo on the panel (optional)
- Screwless installation
- Standard DIN radio size
- Designed for heavy-duty applications



PRODUCT CONFIGURATION

Choose the best options for your system

PIN	NEO 3 PLUS POSSIBLE CONFIGURATIONS HARDWARE 1								
1	POWER SUPPLY	OR	--	OR	--	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H1	OR	PWM OUTPUT	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H2	OR	PWM OUTPUT	OR	CAN L
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	CAN H
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	--
7	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	ONE WIRE
8	GND	OR	--	OR	--	OR	--	OR	--
9	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
10	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
11	GND	OR	--	OR	--	OR	--	OR	--
12	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
13	GND	OR	--	OR	--	OR	--	OR	--
14	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
15	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--

PIN CN1	NEO 3 PLUS POSSIBLE CONFIGURATIONS HARDWARE 2								
1	POWER SUPPLY	OR	--	OR	--	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H1	OR	PWM OUTPUT	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H2	OR	PWM OUTPUT	OR	CAN L
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	CAN H
6	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	--
7	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	DIGITAL OUTPUT POSITIVE 5A	OR	--
8	GND	OR	--	OR	--	OR	--	OR	--
9	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
10	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
11	GND	OR	--	OR	--	OR	--	OR	--
12	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
13	GND	OR	--	OR	--	OR	--	OR	--
14	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
15	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
PIN CN2									
1	POWER SUPPLY	OR	--	OR	--	OR	--	OR	--
2	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H3	OR	PWM OUTPUT	OR	--
3	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--
4	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H4	OR	PWM OUTPUT	OR	--
5	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--
6	GND	OR	--	OR	--	OR	--	OR	--
7	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	--	OR	--
8	GND	OR	--	OR	--	OR	--	OR	--
9	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
10	ANALOG INPUT	OR	DIGITAL INPUT	OR	--	OR	--	OR	--
11	DIGITAL OUTPUT POSITIVE 0.5A	OR	--	OR	--	OR	--	OR	--
12	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	PWM OUTPUT	OR	ONE WIRE	OR	--
13	GND	OR	--	OR	--	OR	--	OR	--
14	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR	BRIDGE H5	OR	PWM OUTPUT	OR	--
15	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--

OBS.: It is possible to install potentiometers instead of power switches.



WE ARE TODAY.
WE ARE TOMORROW.
WE ARE GLOBUS!



Av.Pernambuco, 106 | Navegantes | Porto Alegre | Brasil
Fone: +55 51 3205 0555



Phone: +1 754 600 9882

www.globuselectronics.com

