

NEO PLUS



NEO PLUS

OEM

HVAC + R

CABIN / MUX



NEO 1 PLUS



NEO 2 PLUS



NEO 3 PLUS

MAIN FUNCTIONS

REFRIGERATION

HEATING

VENTILATION

AIR DIRECTION

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 panel



Heating function active panel



Cooling function active panel

AVAILABLE FOR



CHOOSE BETWEEN HORIZONTAL OR VERTICAL FORMATS (i)

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 button available



DISPLAY

OLED GRAPHIC DISPLAY 128x64px
Horizontal and vertical position available



CIRCULAR OLED GRAPHIC DISPLAY 128x128px
Customized operation screen



2 DIGITS / 7 SEGMENTS LED DISPLAY
4 button keyboard
2 status LEDs available



BUTTONS

5 BUTTON KEYBOARD
4 status LEDs available



2 INDIVIDUAL BUTTONS
6 status LEDs available



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

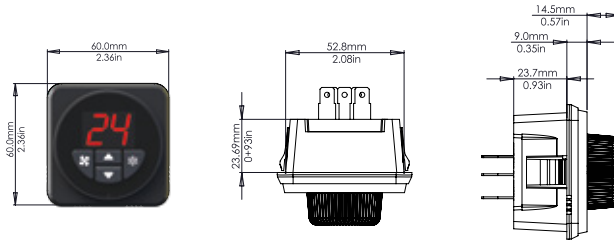


TECHNICAL DATA

OEM

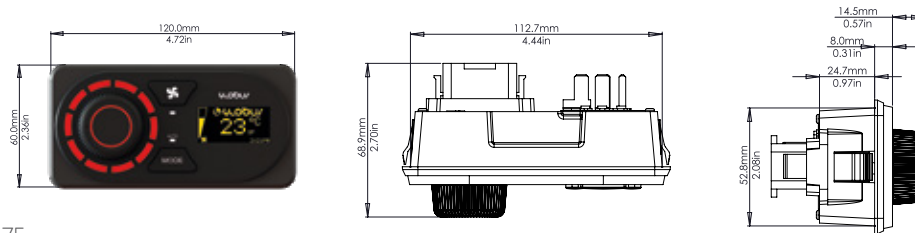
HVAC + R

NEO1 PLUS



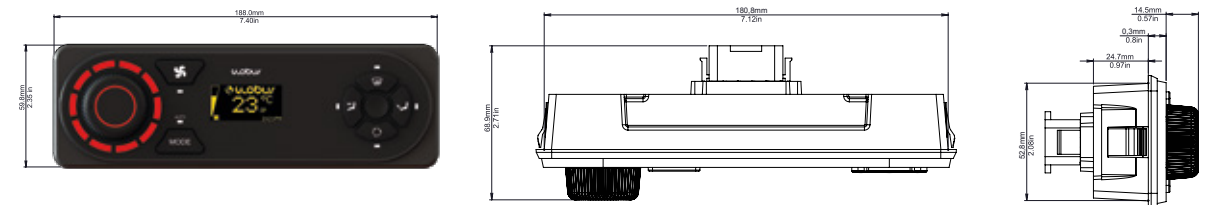
Approximated weight: 80g

NEO2 PLUS



Approximated weight: 175g

NEO3 PLUS



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 cable paths
Part Number: 1-480710 - 0
Terminal - PN: 350689-3
Manufacturer: Tyco Electronics

TECHNICAL DATA

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

* 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.

OLED Display, backlit buttons and symbols

CUSTOMIZABLE CLIMATIZATION CONTROL**

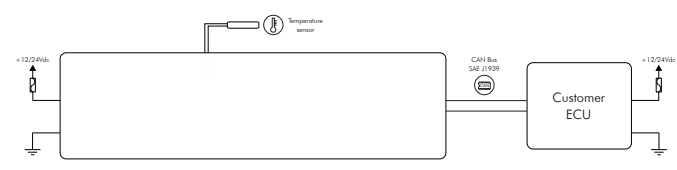
- Innovative Design
- Backlit Symbols and Buttons
- Client Logo on the panel (optional)
- Screwless installation
- Designed for heavy-duty applications
- Up to 6 indication LEDs



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

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 function buttons
- Up to 6 indication LEDs



**Concept product, under request



For the vertical mounting option

FLEXIBLE AND CUSTOMIZABLE CONTROL FOR HVAC**

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



PRODUCT CONFIGURATION

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	--
15	DIGITAL OUTPUT NEGATIVE 0.5A	OR	DIGITAL OUTPUT POSITIVE 0.5A	OR		OR	PWM OUTPUT	OR	--

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
- Client logo on the panel (optional)
- Screwless installation
- Designed for heavy-duty applications
- Up to 8 function buttons
- Up to 10 indication LEDs
- Standard DIN radio size



For the vertical mounting option

FLEXIBLE AND CUSTOMIZABLE HVAC CONTROLLER**

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



PRODUCT CONFIGURATION

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	--

NEO 3 PLUS POSSIBLE CONFIGURATIONS HARDWARE 2									
PIN CN1									
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!



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