NEVD – VAV smart actuator positioner

LCD Room Unit for NSVA Smart Actuators



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

NEVD SERIES

NEVD series compact Human Machine Interface with sensors, controller, communication interface, and LCD display. It has communication port (MODBUS RTU) provide with RJ11 connector. For direct communicate with smart VAV actuator.

- 32-bit MCU with memory
- Compact positioner with with sensors, controller, communication interface, and LCD display
- MODBUS RTU for communication
- LCD with back light, clear and detailed display of the operating data
- Built in temperature (T), humidity (H), carbon dioxide (CO_2), IAQ sensor (depending on version)
- High-precision for IAQ sensor (CO_2 concentration sensor)
- Dedicated design for smart VAV actuator
- Compact, quickly installation with Pluggable terminal & RJ11 connection

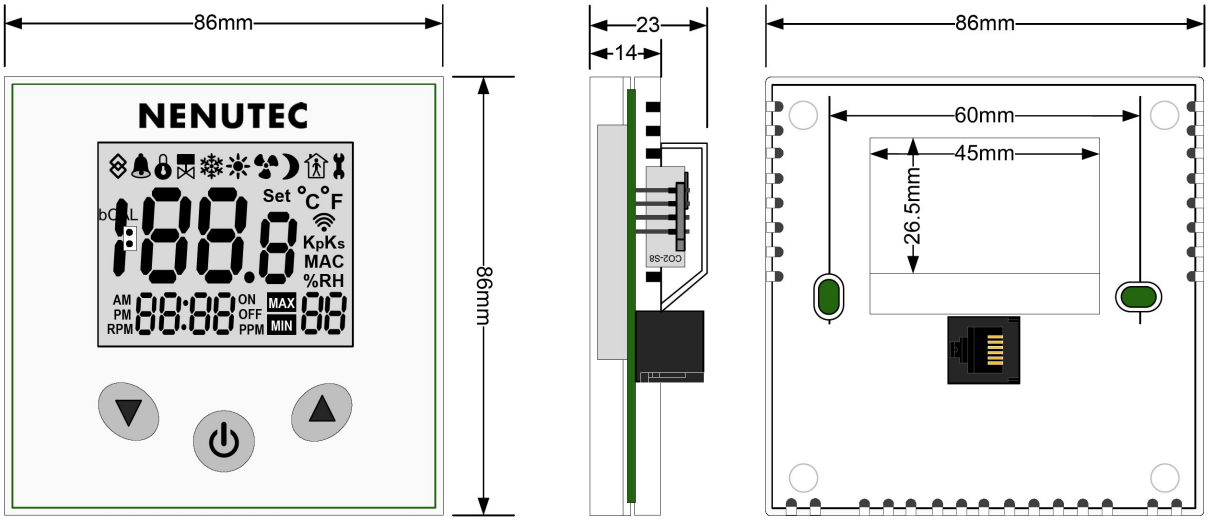
MODEL SELECTION TABLE

Model/type	Temperature	Humidity	Carbon Dioxide	Communication protocol	Backlight
NEVD	Yes	–	–	MODBUS RTU	Yes
NEVD-H	Yes	Yes	–	MODBUS RTU	Yes
NEVD-IAQ	Yes	Yes	Yes	MODBUS RTU	Yes

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DIMENSIONS [mm]



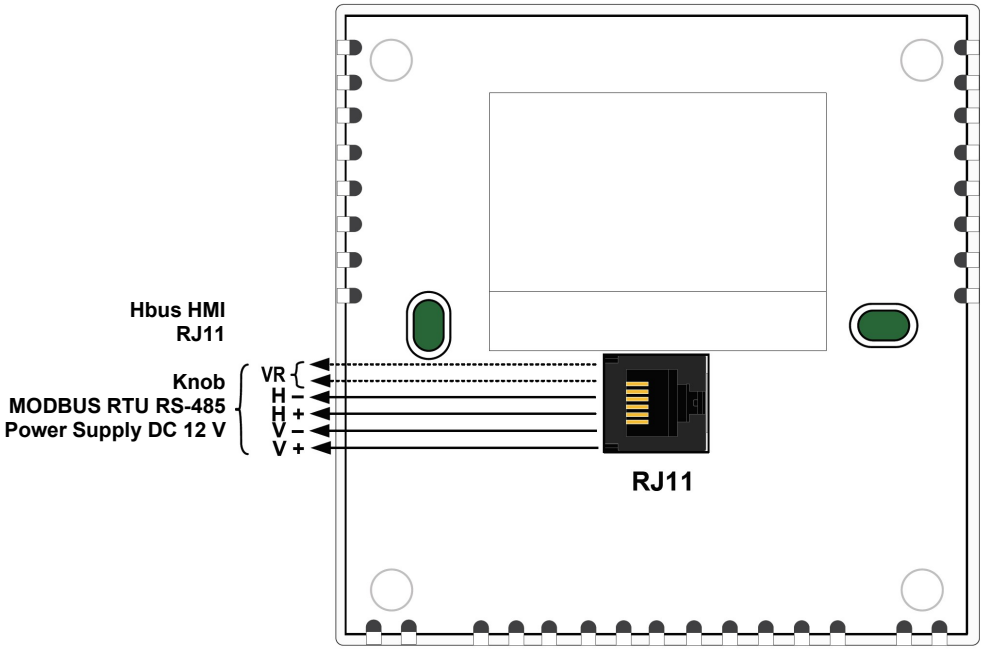
TECHNICAL SPECIFICATION

MODEL DESIGNATION	**NEVD**
MCU	32 bit CPU (MCU) with memory
DIMENSIONS	90 mm (W) X 90 mm (H) X 26 mm (D)
WEIGHT	
• **NEVD**	138 g
• **NEVD-H**	138 g
• **NEVD-IAQ**	146 g
BUTTONS	ON-OFF switch & UP Down setting
COMMUNICATION	MODBUS RTU RS-485 loop, speed, 9600 BPS, 100m
OPERATING	0°C...50°C, 20...90%RH, non condensing
POWER SUPPLY	12 V_{DC}, 1 VA
DISPLAY	61.5 x 39.6mm LCD with backlight
TEMPERATURE SENSOR	
• **NEVD-H**	10kΩ @25°C (NTC) thermistor, 0°C...50°C, ±0.3°C @25°C
• **NEVD-IAQ**	CMOS, 0°C...50°C, ±0.3°C
HUMIDITY SENSOR	CMOS, 0...100%RH, ±3%RH
CARBON DIOXIDE	Non-dispersive infrared (NDIR), 400...2000ppm, ±70ppm+3% of reading
CO_2	ABC (Automatic Baseline Correction) & bCAL (background calibration)
HOUSING	ABS+PC, IP20
CERTIFICATION	CE(EMC Directive 2004/108/EC) FCC(Part 15,Subpart B, Class A)

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Connections



Installation

- NEVD series positioners are designed for signal connection.
- Use RJ11 dedicated connector, you can use RJ11 dedicated 6-wire cable for wiring.
- Please wire in accordance with the instructions of the junction diagram.

Installation instructions:

1. Separate the panel of this product from the base.
2. After fixing the base, insert the RJ11 dedicated 6-wire cable and fasten it, and then cover the panel to complete the installation.

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IMPORTANT REMARKS

This device includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.



24 $V_{AC/DC}$: Connect via safety isolating transformer.

230 V_{AC}: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3mm contact gap.)

Consult NENUTEC representatives for specific requirements and material selections for your intended application. The entire content of this technical datasheet is protected by copyright. All rights are reserved ©.

The performance specifications are nominal and conform to acceptable industry standards. Nenutec shall not be liable for damages resulting from misapplication or misuse of its products.

CUSTOMISED VERSION

NENUTEC offers you devices in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand on request.

For further information please contact us or our local representative.

Nenutec Polska

00-236 Warszawa
ul. Świętojerska 5/7
tel.: +48-(0)-504-050225
nenutec@nenutec.pl