NPG-24– position transmitter with LCD



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

NPG-24

APPLICATION AND USE

NPG 24 position transmitter is designed specifically for applications in the HVAC market. Is designed for control of modulating actuators. Used as an either high limit or low limit device when its input terminals are connected to a proportional controller.

KEY FEATURES

- Ultra slim wall-mount unit to match any décor.
- Large easy to read Liquid Crystal Display (LCD), with LED backlight.
- A stylish bi-directional rotating dial to provide ease of operation.
- Adjusting Range: 0-100% setpoint value in 1% steps.
- 0-10 V_{DC} or 2-10 V_{DC} proportional output.
- 24 V 50/60 Hz or 15-24 V_{DC} supply voltage.
- Retain setpoint value when the power supply is interrupted.

TECHNICAL SPECIFICATION

Output range	0-10 V_{DC} or 2-10 V_{DC}, jumper selectable (factory default: 0-10 V_{DC})
Input range	0-10 or 2 -10 V_{DC}
0(2)-10 V_{DC} output impedance	Minimum 50,000 Ω
0(2)-10 VDC internal impedance	maximum 1,000 Ω
Power supply	24 V_{AC} 50/60 Hz ±15%, 15-24 V_{DC} ±10%
Display and Setpoint Range	0 - 100%
Housing material	Material: self-extinguishing, molded ABS
Color	Off white housing and dark gray faceplate
Ambient temperature	0…50°C
Humidity	10...90% r.h. (non condensing)
Storage temperature	-30°….50°C as per IEC 721-3-2
Certificate	CE and ISO 9000 (EN...requirements)
Shipping weight	0.12 kg

COVER REMOVAL PROCEDURE

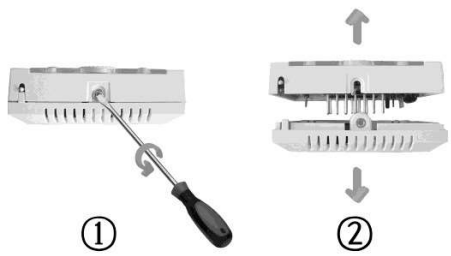


Fig. 1

1. Loosen the fixed screw.
2. Slightly twist the screw driver to crack open the cover from the base.
3. Hold the base firmly with one hand and remove the cover with another hand by pulling away from the base forcibly.

INSTALLATION INSTRUCTIONS:

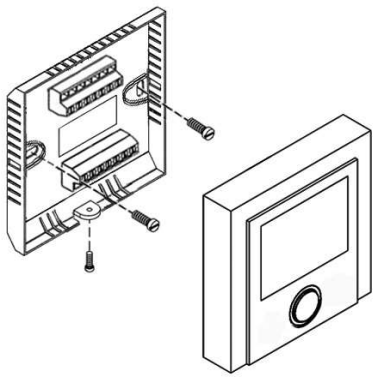


Fig. 2

Installation
The NPG-24 digital set-point adjusters are suit-able for surface, flush or panel mounting and can be surface mounted or secured to a standard European 75x75x35 mm electrical box. Two mounting screws are included.

APPERANCE:

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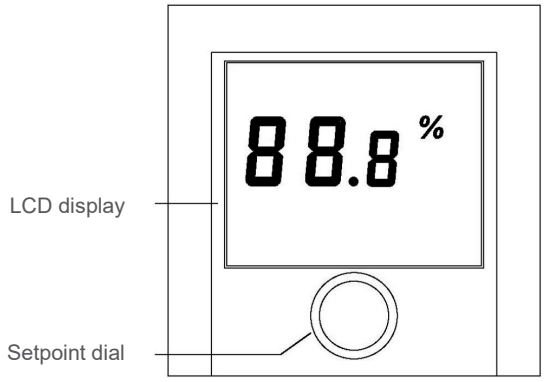


Fig. 3

DIMENSIONS [mm]

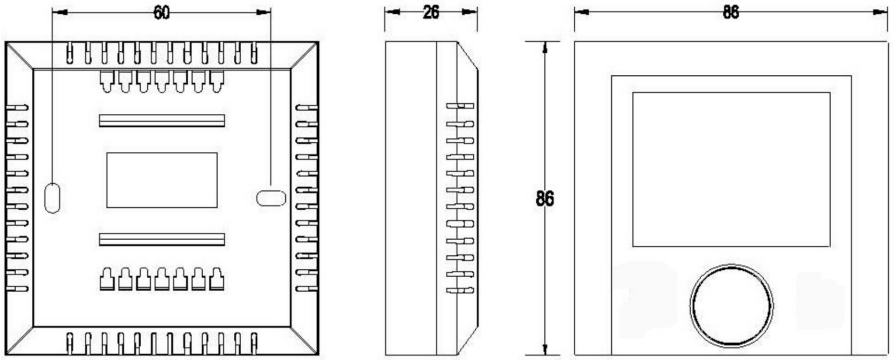
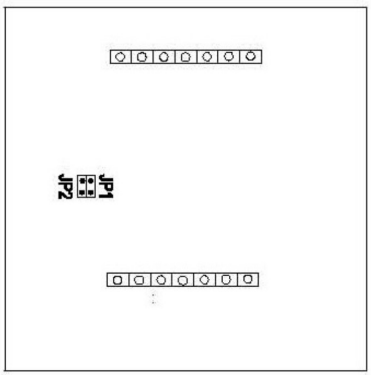


Fig. 4

WIRING TERMINALS AND JUMPER SETTINGS



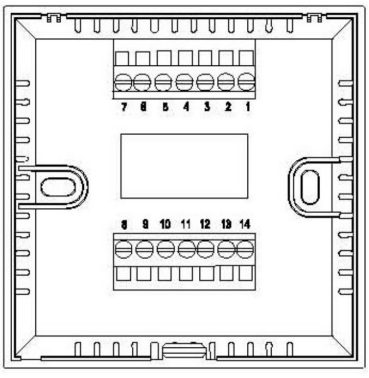


Fig. 5

Jumper settings		
Jumper number	Jumper in OPEN position	Jumper in CLOSED position
JP1	High limit setting	Low limit setting
JP2	For 2-10 VDC output	For 0-10 VDC output

Notes:
1. *NPG-24 works as a positioning device when JP1 is in closed position and no input signal is connected. This is a factory setting.*
2. *JP2 is available in 0-10 V_{DC}/2-10 V_{DC} output models only. Factory setting is 0-10 VDC.*

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WIRING DIAGRAM

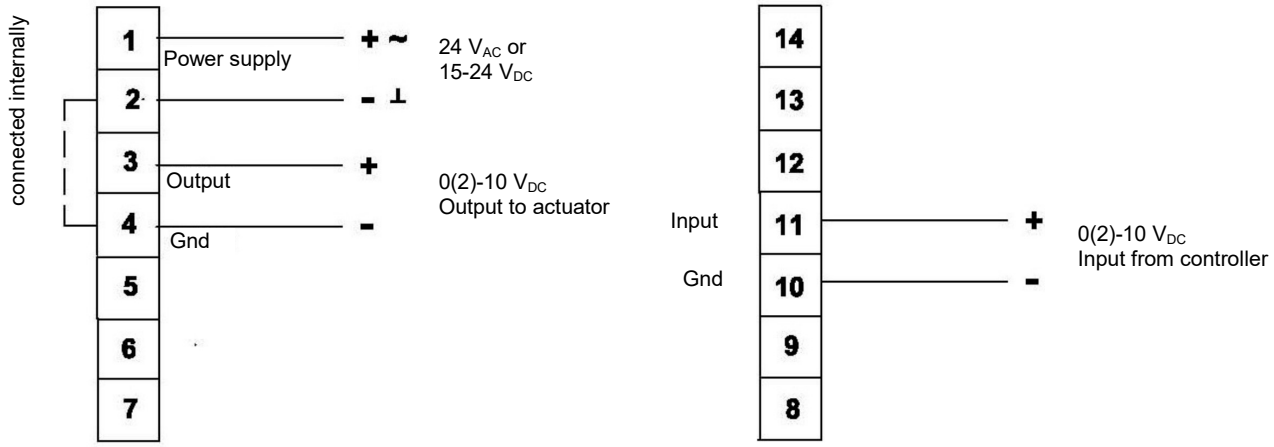


Fig. 6

WARNING
Incorrect wiring connection may cause permanent equipment damages to the device.

Wiring Notes

- Run the wiring away from any electrical motors or power wiring. Failure to do so may result in poor transmitter performance due to electrical noise.
- All wiring must be installed in accordance with local building codes.

Operation notes

- LCD shows setpoint value constantly.
- Increase or decrease setpoint value by rotating the adjustment dial clockwise or counter-clockwise.
- The backlight will come on for 5 seconds when the rotating dial is turned.

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.

Due to continuous product improvement, specifications are subject to change without notice.

Nenutec Polska

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