

## Position Transmitter NPG-1 Liquid Cristal Display



- NPG-1 Position Transmitter
- The position transmitter will be used for manual remote control and or for limiting of angle of rotation for modulating control actuators by air dampers in ventilation and climate installations

### Product Features

- Large LCD Display
- Position set point range 0...100% for 0...90° <
- Low set point limit (L) 0...100%
- High set point limit (H) 0...100%
- Position set point in 1%
- Power supply AC/DC24V or AC230V
- For modulating air damper actuators
- Selectable input signal DC0...10V or DC2...10V
- Housing material PC-ABS
- Surface mounting
- Front mounting
- Flush mounting
- C-clamp connection
- Retain last entered settings of set point on power resumption
- Customized version on request
- Position transmitter fulfils the CE requirements

### Model Selection Table

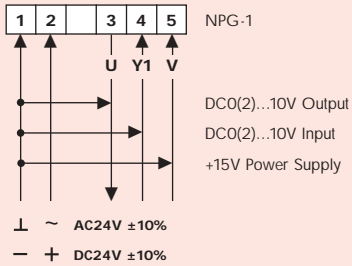
NPG-1 Position Transmitter

AC/DC24V or DC+15V

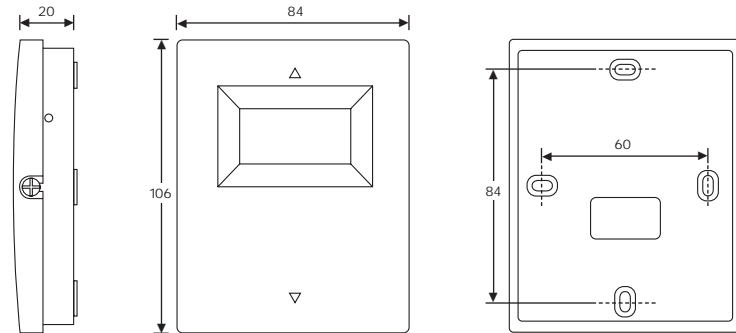
### Technical Specification

	NPG-1
Power Supply	AC/DC24V ±10% or DC+15V of AC230V actuator
Frequency	50-60 Hz
Power Consumption / Operating	1.0 W
For Wire Sizing	2.0 VA
Weight	0.150 kg
Control Singnal Y1	DC0...10V or DC2...10V selectable
Input Impedance Ri	100 k Ohm
Control Signal U	DC0...10V factory settings
Load Resistance	100'000 Ohm
Position Set Point / Working Range	0...100% for 0...90° <
Position Set Point / Low (L) Limiting	0...100% for 0...90° <
Position Set Point / High (H) Limiting	0...100% for 0...90° <
Protection Class	III
IP Protection	IP40
Cable Connection	on request
Site Conditions:	
- Ambient Temperature	0°...+50°C
- Inventory Temperature	30°...+60°C
- Ambient Humidity	5...95% r.H. non-condensing
Maintenance	Maintenance free
EMV	CE in accordance with 89/336/EWG

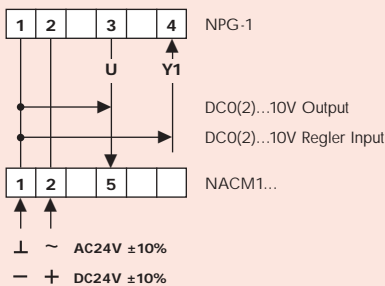
### Wiring Diagram NPG-1



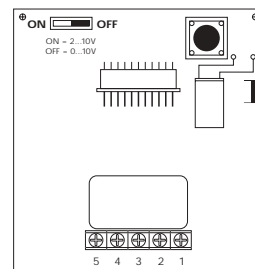
### Dimensions (mm)



### Wiring Diagram for AC/DC24V Actuators

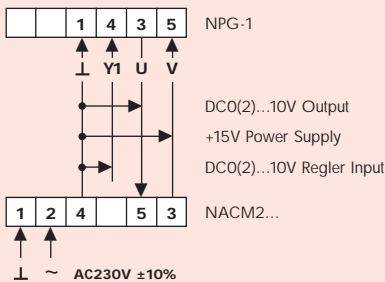


### Settings of Control Signals «U» DC0(2)...10V

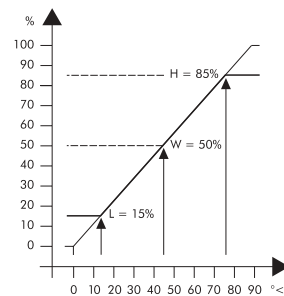


Setting and c-clamp.  
Releasing the screw on the right side.  
Remove housing.  
Adjustable control signal with releasing the ON/OFF switch.  
OFF = 0...10V and ON = 2...10V.  
NPG-1 mounting must be used in accordance of wiring diagrams.  
Mounting and bolting of NPG-1 housing.

### Wiring Diagram for AC230V Actuators



### Control Signal Entering and Limiting



Set point settings will be entered through a soft touch on the small arrow mark in the top or down below LCD display housing.

A hole on the right hand side of the position transmitter housing is accessible for a hand press to change low (L) and high (H) set point limit settings.

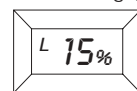
It will return to normal active mode if and when the setup key is passive for 5 seconds. When there is no request on any other set point settings, there must be entered 0% for (L) and 100% for (H).

**Impact:** The damper actuator will be controlled by an NPG-1 position transmitter with an analog control signal of DC 0...10 V or DC 2...10V.

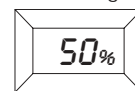
A hole on the right hand side of the position transmitter housing is accessible for a hand press to change low (L) and high (H) set point limit settings. It will return to normal active mode if and when the setup key is passive for 5 seconds. When there is no request on any other set point settings, there must be entered 0% for (L) and 100% for (H).

### LCD Display

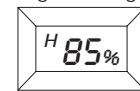
Low Limiting (L)



Control Signal (U)



High Limiting (H)



### Headquarter:



**TELIMA AG**  
FORSCHUNG & ENTWICKLUNG  
Schachenstrasse 80  
CH-8645 Jona / Switzerland  
Phone +41 55 224 40 60  
Fax +41 55 224 40 69  
e-mail: info@telima.ch  
www.nenutec.com

### For Asia/Pacific:



**NENUTEC ASIA PACIFIC**  
32 Upper Serangoon View  
# 15-42 Singapore 534 209  
Phone +65 6489 1815  
Fax +65 6489 1816  
e-mail: nenutec@singnet.com.sg



This position transmitter includes electrical and electronic components and may not be disposed as household garbage. Please consider the locally valid legislation.