



NP-MV-1xSENSOR

LED, OUT

plug-screw terminal
10 pin

range selection per
rotary switch on the rear



NP-MV-4xSENSOR

LED, OUT 1 / 3

2x plug screw terminal
10 pin
X1.. channel 1-2
X2.. channel 3-4

LED, OUT 2 / 4

NP-MV-XxSensor

Status LED functions:

green = power on
1x long flash and short .. pulse
= failure:

1x flash = no sensor
2x flash = programming failure
3x flash = sensor wrong connected
4x flash = wrong sensor range
5x flash = sensor out of range

plug-screw terminal:

channel 1: X1. channel 3: X2.
1: sensor, IN 1
2: sensor, IN 2
3: sensor, IN 3
4: current loop OUT+, 4-20mA
5: current loop OUT-, 4-20mA

channel 2: X1. channel 4: X2.
6: sensor, IN 1
7: sensor, IN 2
8: sensor, IN 3
9: current loop OUT+, 4-20mA
10: current loop OUT-, 4-20mA

for 2 wire sensor:
IN2 and IN3 connect together

Technical Data

cable connector	plug screw terminal 1,5qmm
input channel: 1 = X1.1-3, 2 = X1.6-8, 3 = X2.1-3, 4 = X2.6-8	status channel 1-4
LED display	per channel max. 16 ranges
sensor temperature range	PT100 -50 - +50°C
rotary switch 0	PT100 0 - +100°C
" " 1	PT100 0 - +250°C
" " 2	PT1000 -50 - +50°C
" " 3	PT1000 0 - +100°C
" " 4	PT1000 0 - +250°C
" " 5	NI1000 DIN -50 - +50°C
" " 6	NI1000 DIN 0 - +100°C
" " 7	NI1000 DIN 0 - +250°C
" " 8	NI1000 TK -50 - +50°C
" " 9	NI1000 TK 0 - +100°C
" " A	NI1000 TK 0 - +250°C
" " B	

before connecting power supply choose the temperature range/type
input sensor channel IN1 - IN3: 2 wire / 3 wire connection
output channel: **1** = X1.4-5, **2** = X1.9-10, **3** = X2.4-5, **4** = X2.9-10
current loop supply 4-20mA, 2 wire
voltage range current loop 10-36V DC (to load resistor)
precision ca. 0,2% / 16 Bit (to sensor)
operating temperature -10 - +60°C
storage temperature -30 - +80°C
construction PCB mount. TS35, EN50022
weight 1 channel:65g, 2ch.:80g, 4ch.:120g
dimensions: 1-2channel:24x72x94mm, 4ch.:48x72x94mm(BxHxT)

Converter for input temperature sensors to output 4-20mA current loop, **No Power**, powered from 4-20mA output current loop.
NP-MV-XxSENSOR.4-20mA converts the temperature signal to 4-20mA current loop, 2 wire sensor: connect IN2 and IN3 together.
The LED shows the status of the converter. No isolation between input and output, isolation between the separate channels.
For fault detection in the output current loop: output minimal value = OUT 3,5mA, output maximal value = OUT 20,5mA (failure 5).

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E_NP-MV-
XxSENSOR

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CONVERTER NP-MV-XxSENSOR.4-20mA

NP-MV-1xSENSOR: 1 channel, NP-MV-2xSensor: 2 channel, NP-MV-4xSENSOR: 4 channel

Input	Temperature sensor PT100, PT1000, NI1000 (Rotary switch) (see range selector, or other range to order)
Output	Current loop 4-20mA, powered by current loop
Option	Interface