NP-MV-1xPT

LED, OUT

plug-screw terminal
10 pin

range selection per
rotary switch on the rear

NP-MV-4xPT

LED, OUT 1 / 3

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

LED, OUT 2 / 4

NP-MV-XxPT

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
LED display		status channel 1-4
sensor temperature range		per channel max. 16 ranges
rotary switch	0	PT100 0 - +30°C
“	1	PT100 0 - +50°C
“	2	PT100 0 - +100°C
“	3	PT100 0 - +150°C
“	4	PT100 0 - +250°C
“	5	PT100 -20 - +50°C
“	6	PT100 -50 - +50°C
“	7	PT100 to customer order
“	8	PT1000 0 - +30°C
“	9	PT1000 0 - +50°C
“	A	PT1000 0 - +100°C
“	B	PT1000 0 - +150°C
“	C	PT1000 0 - +250°C
“	D	PT1000 -20 - +50°C
“	E	PT1000 -50 - +50°C
“	D	PT1000 to customer order

before connecting power supply choose the temperature range/type
input sensor channel IN1 - IN3: 2 wire / 3 wire connection

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, **N**o **P**ower, powered from 4-20mA output current loop.
NP-MV-XxPT.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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CONVERTER NP-MV-XxPT.4-20mA

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

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