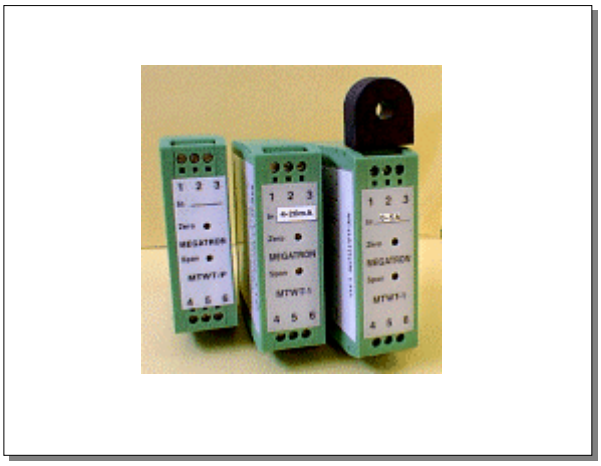
# Transmitters MTWT-I, MFV, MFI



## ◆ Description ◆

- MTWT-I-... is a line of 2 wire transmitters with galvanic isolated output. MTWT-I-... converts different electrical input signals (see Table 1) to standard output 4 - 20 mA for indicators, controllers, recorders, annunciate system etc.
- Option: MTWT- ... 2 wire transmitters without isolated output.
- Other models of transmitters with different enclosures are available (see Table 2).

## ◆ Specification ◆

Power supply: 13 ... 30 VDC [option 48 VDC]

Output: 4 - 20 mA passive

Isolation between input and output:
permissible voltage 500 VDC

Ambient Temp.: -20 ÷ +65 °C

Enclosure: plastic case UEGM 25

Size: W 25 x H 79 mm and depth D 93mm

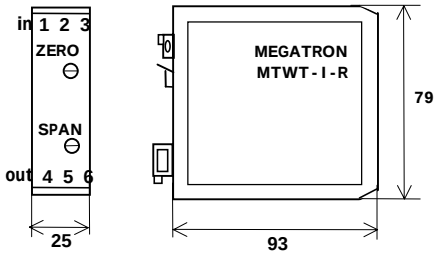
Connection: screw terminals for 2.5 $mm^2$ wires max

Mounting: DIN-rail

Protection: IP-40

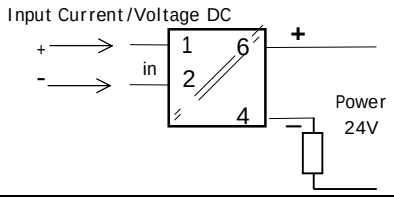
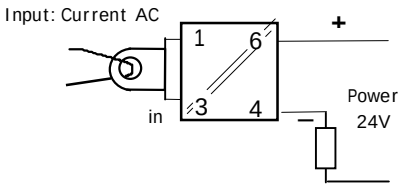
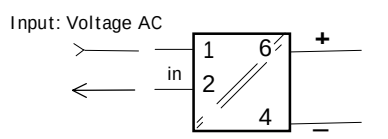
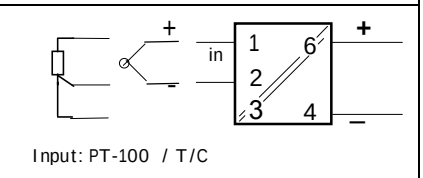
## ◆ Calibration ◆

The device is calibrated according to customer requirements. Output signal can be adjusted by potentiometers ZERO and SPAN installed on the front panel.




## ◆ Selection table ◆

Table 1

| Measurement | | Code | * Input | ** Accuracy | Connection |
|---|---|---|---|---|---|
| Current DC | | -**CDC** | 4-20 mA Rin=20 Ω | ± 0.1% |  |
| Voltage DC | | -**VDC** | 0 ÷100 mV 0÷1 V<br>$R_{in}$ >10 MΩ<br>---<br>0÷10 V 0÷250 V $R_{in}$ >1MΩ | | |
| Current AC | | - **T** | 0÷1A, 0÷5 A, 0÷10 A<br>(Current wire passes through current transformer) | ± 0.25% |  |
| Voltage AC | | -**VAC** | 0÷250 V Rin >1MΩ | ± 0.25% |  |
| Temperature | Thermocouples J,K | - **TC** | TC / J 0 ÷ 600°C<br>TC / K 0 ÷ 1000°C | ± 0.5% |  |
| Temperature | PT-100 | - **RTD** | -100 ÷ + 500°C | ± 0.2% | |

* Other ranges are available. ** Full scale of ranges.


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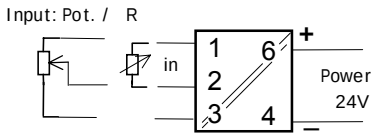
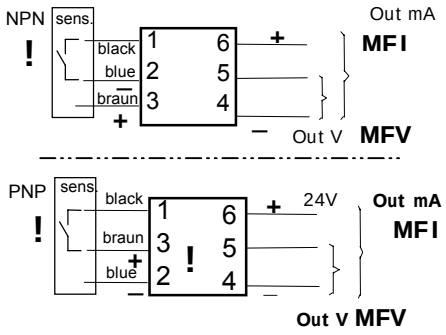
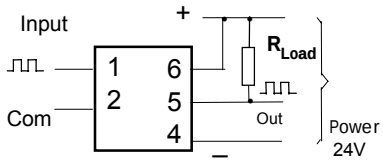
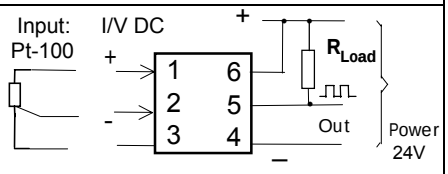
Table 1

| Measurement | Code | Input | Accuracy | Connection |
|---|---|---|---|---|
| Resistance | - **POT** | Pot. 0 - 100 KΩ (3 wire) | ± 0.1% |  |
| | - **R** | R = 0 - 200 Ω (2 wire) | | |



| Measurement | Name | Input | Accuracy | Connection |
|---|---|---|---|---|
| Frequency to Current or Voltage | **MFI / MFV** non-isolated 3 wire | Pulses from Proximity switch, Impeler, Frequency to 4-20 mA or voltage | ± 0.5% |  |
| Frequency to Frequency | **MFD** | | |  |
| Analog Input Signals to Frequency | **MIFN** non-isolated 3 wire | Current / Voltage DC, PT-100 Output: transistor O.C. (See data sheet for MIFN) | ± 0.5% |  |



◆ **Order** ◆ **MTWT-I -Pot**

Isol. Code

**Attention!!** Input range should be defined at order.
Example: MTWT-I-RTD (0-60°C)

◆ Other models of transmitters with different enclosures: Table 2 ◆

| Measurement | Name | Input |
|---|---|---|
| Temperature | **MTWT-H-RTD** | -20 ÷ + 100°C; The unit includes temp.sensor PT100; 2 enclosure types are available. |
| Liquid flow | **MTWT-FRC *** | Pulses from flow Impeller ( Magnetic Pickup ) |
| Analog Input Signals to 4-20mA or 0-10V | **MISCN *** (4 wire) | Current/Voltage AC/DC, PT-100. Resistance etc. |
| Transmitter with display | **MITWT-LCD** | Current/Voltage DC, PT-100/TC. Resistance (3 wire). |
| Double transmitter | **MISCN –D** | One isolated input is converted to two isolated outputs. |
| | **MISCN-DI** | 2 isolated transmitters are in one package. |
| Three transmitters 2 wire for AC current | **MTCT *** | 3 AC current isolated inputs (up to 10A) are converted to three 4-20mA outputs. (Current wires pass through 3 input current transformers). |
| Dual converter / Triple converter | **MVAT/ MVAFT *** | 2 transmit.: line voltage & current to three 4-20mA outputs |
| | | 3 transmitters: for line voltage, current and frequency. |

* There are appropriate data sheets for more information.



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