

# 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<sup>2</sup> 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 $R_{in}=20 \Omega$	$\pm 0.1\%$	Input Current/Voltage DC 
Voltage DC	-VDC	$0 \div 100 \text{ mV}$ $0 \div 1 \text{ V}$ $R_{in} > 10 \text{ M}\Omega$ <hr style="width: 50%; margin: 5px auto;"/> $0 \div 10 \text{ V}$ $0 \div 250 \text{ V}$ $R_{in} > 1 \text{ M}\Omega$		
Current AC	-T	$0 \div 1 \text{ A}$ , $0 \div 5 \text{ A}$ , $0 \div 10 \text{ A}$ (Current wire passes through current transformer)	$\pm 0.25\%$	Input: Current AC 
Voltage AC	-VAC	$0 \div 250 \text{ V}$ $R_{in} > 1 \text{ M}\Omega$	$\pm 0.25\%$	Input: Voltage AC 
Temperature	Thermocouples J, K	$\text{TC / J}$ $0 \div 600^\circ\text{C}$ $\text{TC / K}$ $0 \div 1000^\circ\text{C}$	$\pm 0.5\%$	Input: PT-100 / T/C
	PT-100	- RTD	$-100 \div + 500^\circ\text{C}$	

\* Other ranges are available.

\*\* Full scale of ranges.

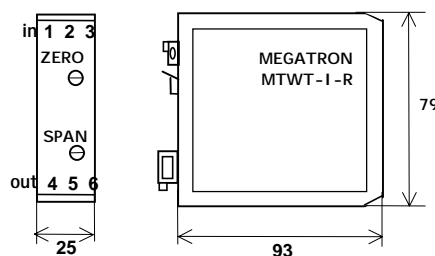


Table 1

Measurement	Code	Input	Accuracy	Connection
Resistance	- POT	Pot. 0 - 100 K $\Omega$ (3 wire)	$\pm 0.1\%$	
	- R	R = 0 - 200 $\Omega$ (2 wire)		
Measurement	Name	Input	Accuracy	Connection
Frequency to Current or Voltage	MFI / MFV	Pulses from Proximity switch, Impeler, Frequency to 4-20 mA or voltage	$\pm 0.5\%$	
	<u>non-isolated</u> 3 wire			
Frequency to Frequency	MFD			
Analog Input Signals to Frequency	MIFN <u>non-isolated</u> 3 wire	Current / Voltage DC, PT-100 Output: transistor O.C. (See data sheet for MIFN)	$\pm 0.5\%$	

◆ Order ◆

MTWT-I -Pot  
|  
I sol. 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	MI SCN * (4 wire)	Current/Voltage AC/DC, PT-100. Resistance etc.
Transmitter with display	MI TWT-LCD	Current/Voltage DC, PT-100/TC. Resistance (3 wire).
Double transmitter	MI SCN -D	One isolated input is converted to two isolated outputs.
	MI SCN-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/	2 transmit.: line voltage & current to three 4-20mA outputs
	MVAFT *	3 transmitters: for line voltage, current and frequency.

\* There are appropriate data sheets for more information.

MTWT-S-3-03-E

