

MISCN - 4 wire Transmitter



MISCN - CAC

MISCN



◆ Specification ◆

- Accuracy:** $\pm 0.1\%$ F.S.(DC),
 $\pm 0.2\%$ F.S. for PT100,
 $\pm 0.25\%$ F.S.(AC)
- Power supply:** 115/230 $\pm 15\%$ VAC
- Input:** 4 \div 20mA/0 \div 300V DC,
 0 \div 1A, 0 \div 5A / 0 \div 300V AC ...
 (see also the table below)
- Output:** 4 \div 20 mA or 0 \div 10 V or other
- Galvanic isolation** between in & out: 1500VDC
- Display:** LED indicates power ON
- Ambient Temp.:** -20 \div +65 $^{\circ}$ C
- Enclosure:** plastic case NORIL
- Size:** W 70 x H 73 x L 90mm .
- Connection:** plug-in terminals (12 pins)
- Mounting:** DIN-rail

◆ Description ◆

MISCN - transmitter converts different input signals (I/V DC/AC, PT100, R, POT) to standard signal 4 \div 20mA or 0 \div 10V. There is also a model for "Average of two input signals".

"Absolute Value" or "Square root Extractor" of input ($\sqrt{I_{in}}$) are available at the old model MI SC.

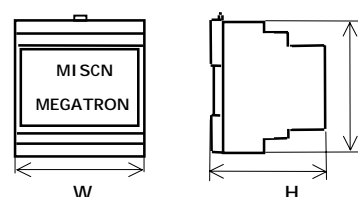
◆ Calibration ◆

The device is calibrated according to customer requirements.

Output signal can be adjusted by ZERO and SPAN potentiometers installed on the circuit board under the front panel.

- Adjust output signal by ZERO to obtain value 4mA when input signal is minimum. Adjust output by SPAN to obtain value 20mA when input signal is maximum.
- Repeat calibration.

◆ Dimension ◆



DC models

◆ Models ◆

Models	Transmission	* Input	Output
MISCN - CTC MISCN - CTV	Current DC to current/voltage DC	4 \div 20 mA $R_{in} < 25 \Omega$	4 \div 20 mA $R_{LOAD} < 800 \Omega$ or 0 \div 10 V $R_{LOAD} > 500 \Omega$
MISCN - VTC MISCN - VTV	Voltage DC to current/voltage	0 \div 10 V $R_{in} > 10 M\Omega$ > 10 V up 300V $R_{in} > 1 M\Omega$	
MISCN -...- HI		Option: 0 - 10 V $R_{in} > 100 M\Omega$	
MISCN - R	External resistance	R=0 \div 100K Ω (2 wire)	
MISCN - POT		R=0 \div 100K Ω (3 wire)	
MISCN - RTD	RTD to current/voltage	PT100	
MISCN - AV	Average of 2 signals	$I_1, I_2 = 4\div 20$ mA $R_{in} < 25 \Omega$	
MISCN - TWT	for 2 wire transmitter	4 \div 20 mA, includes power 24V	

MISCN-P-2-07-E

* Available other standards.

megatron electronics & controls ltd

Manufactures & Representatives for Control Equipment



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◆ Models ◆

AC models

Model	Input	Value	Output
MISCN – CAC	** current AC	0+1 A / 0+5 A	4+20 mA $R_{LOAD} < 750 \Omega$ or 0+10 V $R_{LOAD} > 1 K\Omega$
MISCN - VAC	voltage AC	0+300 V $R_{in} > 1 M\Omega$	

**The conductor passes through current transformer.

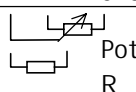
◆ Connection ◆

Input DC

MISCN - CTC / CTV / VTC / VTV

+ -		- +		0 ~							
12	11	10	9	8	7	6	5	4	3	2	1
Input DC						Out			220 VAC		
						4-20 ma			power		

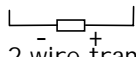
MISCN - POT/RTD/R

		- +		0 ~							
12	11	10	9	8	7	6	5	4	3	2	1
						Out			220 VAC		

MISCN - AV

		- +		0 ~							
12	11	10	9	8	7	6	5	4	3	2	1
I ₂ Com. I ₁ Inputs						Out			220 VAC		

MISCN - TWT

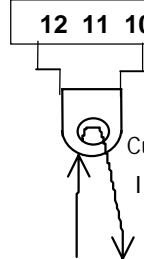
		- +		0 ~							
12	11	10	9	8	7	6	5	4	3	2	1
						Out			220 VAC		
						2 wire transmitter					

Input AC

MISCN - VAC

		Voltage									
12	11	10	9	8	7	6	5	4	3	2	1
Input VAC						- +		Out			
								220 VAC			

MISCN - CAC

		Current									
12	11	10	9	8	7	6	5	4	3	2	1
						- +		Out			
								220 VAC			
								power			
								Current Transformer			
								Input 0{1A / 0{5 A			