Universal isolate transducer

MODEL TW-4M-1-N, TW-4M-4-N





Input Specification

Input	Input resistance	Input allowable range
0 to 5 VDC	More than 1 MΩ	-50 to +150% F.S
0 to 10 VDC		
0 to 60 mVDC		
1 to 5 VDC		
-5 to 5 VDC		
-10 to 10 VDC		
0 to 20 mADC	250 Q	
4 to 20 mADC	250 12	

Output Specification

Output	Load resistance	
0 to 5 VDC		
1 to 5 VDC	More than 2 KΩ	
-5 to 5 VDC		
0 to 10 VDC	More than 4 KΩ	
-10 to 10 VDC		
0 to 20 mADC	Less than 550 Ω	
4 to 20 mADC		

General Specifications

1. Range settings before shipment:

Input; 1 to 5 VDC, output; 4 to 20 mADC

Accuracy of range settings before shipment:

Within ±0.25% F.S

2. Error caused by input range setting change: Within ±1% F.S Error caused by output range setting change: Within ±1% F.S

3. Temperature characteristic: ±0.02% F.S/°C

Less than 50ms (Time required for arriving 4. Response time:

at 90% of rated output)

5. Insulation resistance: Between input and output or power supply,

More than 100 M Ω (At 500 VDC)

6. Dielectric strength: Between input and output or power supply,

For 1 min. (At 2000 VAC)

7. Power supply voltage: 100 to 240 VAC ±10% or 24 VDC ±10%

Consuming current:

Less than 50mA (At 100 VAC)

Less than 80mA (At 24 VDC)

8. Operating ambient temperature: -5 to +50°C

9. Operating humidity: Less than 90% RH (No dew-condensing)

10. Storage temperature: -10 to +70°C

Less than 60% RH (No dew-condensing) 11. Storage humidity:

12. Case material: Black PBT 94-V0 13. Weight: Approx. 130g

14. Applicable standards: EN61326-1, EN IEC 63000

■About solderless terminal to connect with the screw type terminal block

M3 5×71 1 Screw size:

2.Recommendation solderless terminal: Ring tongue (R type) M3.5

Spade tongue (A type) M3.5 Applicable Wire AWG# 26 to 22

3. Quality of material: Screw Iron, nickel plating

Connection board

Yellow copper, tin plating

Setting or changing input/output range

/!\Always set or change the input/output range with the power turned off.

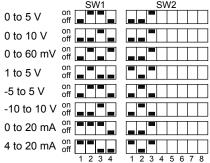
The input/output range can be set or changed by dip switches SW1

and SW2, SW3 on top of the transducer.

After finishing the setting, stick the attached seal to the window for dip switch operation. Prior to factory shipment, the input is set 1 to 5 V and the output, 4 to 20 mA.

SW1 SW₂ Range settings

1. Setting or changing input range

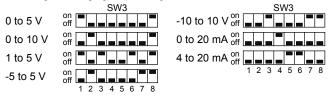


2. Setting Speed

3. Setting Revers (Output)

	3002		5VV2
50 mS	on off	MORMAL	on off
500 mS	on off	REVERS	on off
	1 2 3 4 5 6 7 8		1 2 3 4 5 6 7 8

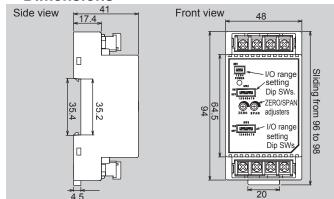
4. Setting or changing output range



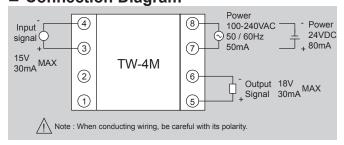
Ordering Code

 $\mathsf{TW} - \mathsf{4M} - {\color{orange} \square} - \mathsf{N}$ Code to specify power [1. 100 to 240 VAC ±10%
4. 24 VDC ±10%

Dimensions



Connection Diagram



Block Diagram

