



Models Available

TH-2M Slim Analogue Signal Conditioner 100-240Vac Auxiliary Powered

TH-5M Slim Analogue Signal Conditioner 24Vdc Auxiliary Powered

TW-4M-1-N Analogue Signal Conditioner 100-240Vac Powered

TW-4M-4-N Analogue Signal Conditioner 24Vdc Powered

Product Features

- Convert and isolate process signals
- User selectable input and output
- Linearity 0.1% full scale
- Adjustable 'span' and 'zero'
- DIN rail mounting enclosure
- 1.5kV rms 50Hz 1 minute isolation between input / output / auxiliary
- Screw type terminals
- Fingerproof terminal cover included

Analogue Signal Conditioners

Tel: +44 (0) 1621 859500

Analogue signal conditioners isolate and convert DC voltage or current signals. The signal conditioner converts the DC voltage or DC mA signal to either a DC mA or DC voltage output which is directly proportional to the input signal value.

The user can select the input range and output range through the DIP switches on the front of the isolator. These signal conditioners offer isolation between the DC input signal and the DC output which can be used to prevent earth loops.

The 1.5kV isolated output signals can then be fed to analogue meters, digital meters or PLCs.

For converting and isolating DC process signals

Specification

Linearity:

< 0.1% full scale

Accuracy:

< 1% full scale after switches adjusted

Temperature Variation:

0.02% full scale / °C

Response Time:

- TH-2M/TH-5M < 50ms for 0-90% input
- TW-4M <50ms or 500ms

Insulation Resistance:

- > 100Mohm between input / output / auxiliary

Isolation:

- 1.5kV rms 50Hz for 1 minute between input / output / auxiliary

Power Supply:

- TH-5M/TW-4M-4-N 24Vdc ±10%
- TH-2M/TW-4M-1-N 100-240Vac ±10%

Power Consumption:

- < 80mA at 24Vdc
- < 50mA at 100-240Vac

Operating Temperature:

- -5°C to 50°C

Operating Humidity:

- < 90% non-condensing

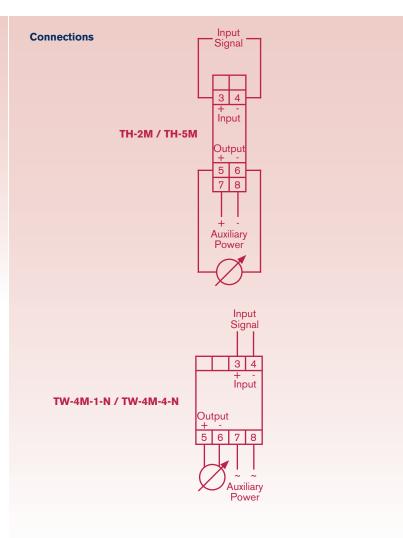
- 35mm DIN rail (DIN-EN 50022)

Weight:

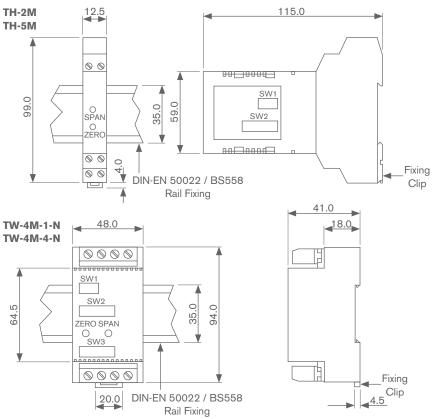
- TH-2M/TH-5M 80g, TW-4M 130g

Markings:

- CE marked



Dimensions



Email: sales@eltime.co.uk

Ordering information

	Code	Description	
	TH-2M S	TH-2M Slim Analogue Signal Conditioner - 100-240Vac	
	TH-5M	Slim Analogue Signal Conditioner - 24Vdc	
	TW-4M-1-N	Analogue Signal Conditioner - 100-240Vac	
	TW-4M-4-N	Analogue Signal Conditioner - 24Vdc	
Example	TH-5M		

Calibration can be factory set at a specific input and output if required Note: (specify when ordering).

Resistance Values

Input	Input Resistance
0-5Vdc	
1-5Vdc	More than 1Mohm
0-10Vdc	
0-60mV	
±5Vdc**	
±10Vdc**	
4-20mA	250 ohms
0-20mA	

Output	Allowable Load Resistance	
0 to 5Vdc 1 to 5Vdc -2 to +2Vdc * -2.5 to +2.5Vdc * -5 to +5Vdc 0 to 4Vdc *	More than 2kohm	
0 to 10Vdc -10 to +10Vdc	More than 4kohm	
4 to 20mA 0 to 20mA **	Less than 550 ohms	

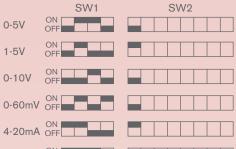
TW-4M Response Time



TW-4M Reverse Setting SW2

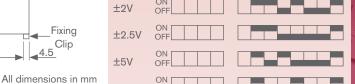
	0112	
Normal	ON OFF	
Reverse	ON OFF	

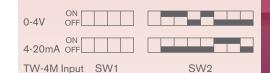
Range Settings TH-2M /TH-5M Input



0-20mA OFF	
TH-2M / TH-5M Output	
SW1	SW2
ON	







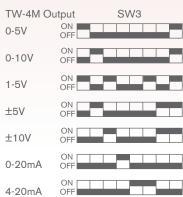
±10V











Specification subject to change without notice.