

Selco Signal Conditioners

Programmable Transmitter

- Change Input and Output Range by Front DIP Switches
- AC or DC Power
- Selectable Filter 50/500msec
- Normal or Reverse Output
- DIN Rail Mount


TW-4M

SPECIFICATIONS

Basic Accuracy:	±0.25% FS
Linearity:	Less than ±0.1% of full scale
Temperature coefficient:	±0.02% FS/°C
Response time:	<50ms (0 to 90%) with filter off
Insulation resistance:	>100MΩ at 500VDC, between input and output or power supply
Dielectric strength:	1 min. at 2000VAC, between input and output or power supply
Power supply:	24VDC ±10% 100-240VAC ±10%
Power consumption:	<80mA (at 24VDC) <50mA (at 100-240VAC)
Operating temperature:	-5 to 50°C, <95% RH (non-condensing)
Maximum input:	-50 to +150% of range
Dimensions (mm):	48 W x 98 H x 41 D
Connections:	M3.5 screw terminals

Input Range	Input Resistance	
0 to 5 VDC	>1MΩ	
0 to 10 VDC		
0 to 60 mVDC		
1 to 5 VDC		
-5 to +5 VDC		
-10 to +10 VDC	250Ω	
4 to 20 mADC		
0 to 20 mADC	Allowable Load Resistance	
Output Range		
0 to 5 VDC		>2kΩ
1 to 5 VDC		
-5 to +5 VDC		
0 to 10 VDC		>4kΩ
-10 to +10 VDC		
4 to 20 mADC	<550Ω	
0 to 20 mADC		

ORDERING INFORMATION

SE/TW-4M-1-N	Programmable Transmitter, 100-240 VAC Power
SE/TW-4M-4-N	Programmable Transmitter, 24VDC Power
SE/TZ-41	Signal Isolator, Self powered
SE/TH-2X-**L	Signal Isolator, AC powered (insert input/output codes)
SE/TH-5X-**L	Signal Isolator, DC powered (insert input/output codes)

Example: SE/TH-5X-42L for 0-1V in and 0-10V out

Signal Isolators

- Small Size
- AC or DC Powered (TH)
Self-powered (TZ)
- Easy Connection
- DIN Rail Mount


TH-2X

TZ-41

TZ-41 SPECIFICATIONS

Signal input:	0 to 20mA, 4 to 20mA, 0 to 5mA
Signal output:	Same as signal input (1:1 ratio)
Input current:	Max. 30mA
Load:	Max. 1000Ω
Voltage loss:	Approx. 3.3V between input and output
Output ripple:	<0.5% (20mA at 250V)
Temperature coefficient:	Less than ±100PPM/°C
Accuracy:	±0.1% (23 ±1°C) at 250V load
Additional error:	+0.1%/100Ω at load <250Ω -0.1%/100Ω at load >250Ω & <600Ω
Operating temperature:	-5 to +50°C, less than 90% RH
Insulation resistance:	>100MΩ at 500VDC (input to output)
Dielectric strength:	1 min. at 2kVAC (input to output)
Dimensions (mm):	25 W x 98 H x 41 D

TZ-41 will also provide 0 to 5V or 1 to 5V output.

TH-2X & TH-5X SPECIFICATIONS

Basic Accuracy:	±0.1% of full scale
Load/supply variation:	±0.06% of full scale each
Temperature coefficient:	±0.02% FS/°C
Response time:	<50ms (0 to 90%)
Input resistance:	>1MΩ on VDC, 250Ω on mADC
Insulation resistance:	>100MΩ at 500VDC, between input and output or power supply
Dielectric strength:	1 min. at 1500VAC, between input and output or power supply
Power supply:	24VDC ±10% 100-240VAC ±10%
Power consumption:	<50mA @ 24VDC, <20mA @ 100VAC
Operating temperature:	-5 to 50°C, <90% RH (non-condensing)
Maximum input:	-50 to +150% of range
Dimensions (mm):	13 W x 99 H x 115 D

Input Code	Range	Input Code	Range
0	0 to 5 VDC	6	0 to 60 mVDC
1	1 to 5 VDC	7	0 to 20 VDC
2	0 to 10 VDC	8	-2 to +2 VDC
3	-10 to +10 VDC	9	-5 to +5 VDC
4	0 to 1 VDC	A	4 to 20 mADC
5	0 to 100 mVDC	B	0 to 20 mADC

Output Code	Range	Allowable Load
0	0 to 5 VDC	>2kΩ
1	1 to 5 VDC	
2	0 to 10 VDC	>4kΩ for positive output,
3	-10 to +10 VDC	>10kΩ for negative output
A	4 to 20 mADC	<550Ω