

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 |