

Selco Transmitters

- Miniature Size
- Variety of Input Types
- 1500V Isolation
- AC or DC Powered
- DIN Rail Mounting

TZ-1XA


SPECIFICATIONS

Basic Accuracy:	±0.1% of full scale, except ±0.2% of full scale on CA, DA & EA types
Load/supply variation:	±0.06% of full scale each
Temperature coefficient:	±0.02% FS/°C
Response time:	<50ms (0 to 90%) except 500ms on CA type, 700ms on DA & EA types
Front adjustments:	±5% for zero & span
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%
Operating temperature:	-5 to 50°C, <90% RH (non-condensing)
Case material:	Black ABS, 94V-2
Dimensions (mm):	25 W x 99 H x 41 D

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: TZ-1XA-22L

A	B	-	C	D	E
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A	Basic Unit	
TZ-1	Transmitter, 100-240 VAC powered	
TZ-5	Transmitter, 24 VDC powered	
B	Input Type	
XA	DC Volts/mA	
FA	DC mV/μA	
EA	AC Volts (TRMS, AC coupled, 40-1000Hz)	
DA	AC Amps (TRMS, CT coupled, 40-1000Hz)	
AA	RTD (Pt100, 3-wire, α=385)	
CA	Thermocouple (J, K, R, S or T)	
BA	Potentiometer	
LA	mA loop (TZ-5 only)	
C	Input Range	
Select code from input table for type specified above		
D	Output 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
4	-2 to +2 VDC	>2kΩ for positive output,
5	-2.5 to +2.5 VDC	>10kΩ for negative output
6	-5 to +5 VDC	
7	0 to 4 VDC	>2kΩ
A	4 to 20 mADC	
B	0 to 20 mADC	<550Ω
E	Response Time (XA & FA types only)	
L	Normal (50 msec)	
H	Fast (1 msec on type XA, 3msec on type FA)	

INPUT RANGES

Input Type XA - DC Volts/mA

Code	Range	Input Resistance	Maximum Input
0	0 to 5 VDC	>1MΩ	-50 to +150% of full scale
1	1 to 5 VDC		
2	0 to 10 VDC		
3	-10 to +10 VDC		
4	0 to 1 VDC		
5	0 to 100 mVDC		
6	0 to 60 mVDC		
7	0 to 20 VDC		
8	-2 to +2 VDC		
9	-5 to +5 VDC		
A	4 to 20 mADC	250Ω	
B	0 to 20 mADC		

Input Type FA - DC mV/μA

Code	Range	Input Resistance	Maximum Input
0	0 to 5 mVDC	>1MΩ	-50 to +150% of full scale
1	0 to 10 mVDC		
2	0 to 50 mVDC		
3	0 to 60 mVDC		
4	0 to 100 mVDC		
A	0 to 10 μADC	1kΩ	
B	0 to 100 μADC		
C	0 to 200 μADC		

Input Type EA - AC Volts

Code	Range	Input Resistance	Maximum Input
1	0 to 35 VAC	>200kΩ	150% of full scale or 300VAC
2	0 to 100 VAC	>1MΩ	
3	0 to 110 VAC		
4	0 to 200 VAC		
5	0 to 220 VAC		

Input Type DA - AC Amps

Code	Range	Input Resistance	Maximum Input
1	0 to 1 AAC	<0.05Ω	7.5 AAC
2	0 to 5 AAC		

Input Type AA - RTD

Code	Range	Input Resistance	Maximum Input
0	-50 to +50 °C	Pt100 (3-wire)	-50% to 150% of full scale
1	0 to 100 °C		
2	0 to 200 °C		
3	0 to 300 °C		
4	-20 to +80 °C		

Input Type CA - Thermocouple

Code	TC	Range	Input Res.	Max. Input
J0	J	0 to 1000 °C	>1MΩ	±150%
K2	K	-50 to +200 °C		
K3	K	0 to 200 °C		
K4	K	-50 to +1200 °C		
K5	K	0 to 1200 °C		
R0	R	0 to 1700 °C		
S0	S	0 to 1700 °C		
T0	T	-50 to +350 °C		
T1	T	0 to 350 °C		

Input Type BA - Potentiometer

Code	Range	Input Resistance
1	0 to 100%	100Ω to 10kΩ

Input Type LA - mA loop

Code	Range	Input Resistance
A	4 to 20 mADC	250Ω

Custom ranges for any input type are available on special order.