Terminal Type AC Voltage Isolated Transducer

MODEL TZ-5EA





■ Input Specification

AC Voltage (AC-coupled true RMS measurement)

Code No.	Input signal	Input resistance	Input allowable range
1	0 to 35V AC	More than 200kΩ	
2	0 to 100V AC		less than 150% (The upper limit 300V AC)
3	0 to 110V AC		
4	0 to 200V AC		
5	0 to 220V AC		
Y	Other than the above		

For Code No. Y

Limit of specifications

Less than 300 V AC and more than 0 V AC Span : Less than 300 V AC and more than 4 V AC

Input frequency: 40 to 1000Hz

Note: A measurement error may become larger when higher harmonic wave components of more than input frequency are contained.

■ Output Specification

Code No.	Output signal	Allowable Loadresistance	
0	0 to 5V DC	More than 2kΩ	
1	1 to 5V DC		
2	0 to 10V DC	More than 4kΩ	
3	-10 to 10V DC	Negative output:more than 10kΩ	
4	-2 to 2VDC	More than 2kΩ Negative output:more than 10kΩ	
5	-2.5 to 2.5VDC		
6	-5 to 5VDC		
7	0 to 4VDC	More than 2kΩ	
Α	4 to 20mADC	Less than 550Ω	
В	0 to 20mADC		
Y	Other than the above		

For code No. Y

Limit of specifications

Voltage output : Less than +15 VDC and more than -12 VDC Minimum span : Less than +27 VDC and more than 0.06 VDC (Road resistance : 10k $\!\Omega$ at the output exceeding 10V, and a negative output) (Base accuracy : ± 0.25 %F.S and temperature characteristic :

±0.03 %F.S/°C for a span of less than 1V)

Current output: Less than +20 mADC and more than 0 mADC Minimum span: Less than +20 mADC and more than 1 mADC Outputs can be reversed for both voltage and current outputs.

General Specifications

 $\begin{array}{lll} \mbox{BaseAccuracy}: & \pm 0.2\% F.S \ (5 \ to \ 100\% F.S) \ (25^{\circ} \mbox{C} \pm 2^{\circ} \mbox{C}) \\ & \pm 1.0\% F.S \ (0 \ to \ 5\% F.S) \ (25^{\circ} \mbox{C} \pm 2^{\circ} \mbox{C}) \\ \mbox{Power supply variation}: & \pm 0.06 \ \% F.S \ (\pm 0.5\% \ to \ the \ input \ of \ 0 \ to \ 5\%) \end{array}$

Load resistance variation :±0.06 %F.S

Frequency variation: ±0.2 %F.S (Based on 60Hz)

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

Response time : Less than 700msec (0 \rightarrow 90%) Front adjustments : \pm 5% for zero and span

Insulation resistance : Between input and output/power supply ;

More than 100MΩ at 500 VDC

Dielectric strength: Between input and output/power supply;

For 1 min. at 1500VAC

Power supply voltage : $24VDC \pm 10 \%$

Consuming current: Less than 30mA (24VDC at voltage output)

Less than 50mA (24VDC at current output)

Operating ambient temperature : -5 to 50°C

Operating ambient humidity: Less than 90 %RH (No-condensing)

Storage temperature : -10 to 70°C

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

Case material : ABS resin(Black) 94V-2

Weight: Approx. 80g

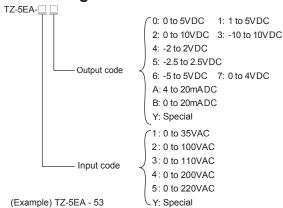
Vibration resistance : Frequency: 10 to 55Hz; amplitude(half): 0.15mm

to 10 sweeps of 5 min each in X, Y, and Z directions

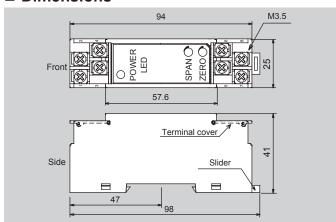
■ Features

- DC power supply 24V DC
- DIN rail mounting
- Input/Output/Power supply isolated

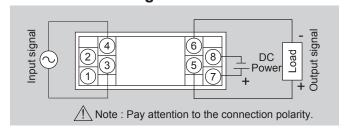
Ordering Code



Dimensions



■ Connection Diagram



■ Block Diagram

