Terminal Type AC Current Isolated Transducer (AC Power)

MODEL TZ-1DA





Input Specification

Code No.	Input (A)	Input resistance	Input allowable range
1	0 to 1A AC	loss than 0.050	less than 7.5A AC (less than 5sec 25A AC)
2	0 to 5A AC		
Y	Other than the above		(1.555 1.14.1. 5550 20/1/10)

For Code No. Y

Limit of specifications

Less than 5 A AC and more than 0 A AC Span: Less than 5 A AC and more than 1 A 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	INDIE HIBIT 2K22	
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

±0.2%F.S (5 to 100%F.S)(25°C±2°C) ±1.0%F.S (0 to 5%F.S)(25°C±2°C) Base Accuracy:

Power supply variation : ±0.06 %F.S (±0.5% to the input of 0 to 5%) Load resistance variation: ±0.1 %F.S (±0.5% to the input of 0 to 5%)

±3 %F.S(Based on 60Hz) Frequency variation:

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

Less than 700msec (0→90%) Response time Front adjustments: ±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 2000VAC

Power supply voltage: 100 to 240VAC ±10 %

Consuming current: Less than 20mA (100VAC at voltage output) Less than 25mA (100VAC at current output)

Operating ambient temperature: -5 to 50°C

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

-10 to 70°C Storage temperature :

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

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

Weight: Approx. 80g

Vibration resistance: Frequency: 10 to 55Hz; ampliutde(half):

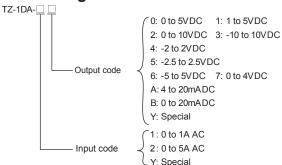
0.15mm to 10 sweeps of 5 min each in X, Y,

and Z directions

Features

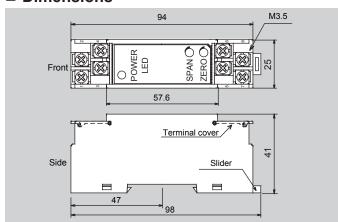
- AC power supply 90 VAC to 240 VAC
- DIN rail mounting
- Input/Output/Power supply isolated

■ Ordering Code

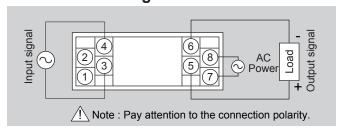


(Example) TZ-1DA - 1A

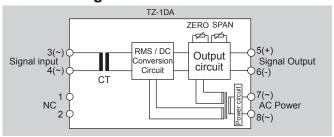
Dimensions



■ Connection Diagram



■ Block Diagram



Terminal Type AC Current Isolated Transducer

MODEL TZ-5DA







■ Input Specification

С	ode No.	Input (A)	Input resistance	Input allowable range
	1	0 to 1A AC	lace then 0.050	less than 7.5A AC (less than 5sec 25A AC)
	2	0 to 5A AC		
	Υ	Other than the above		(1666 11411 6666 267 17 16)

For Code No. Y

Limit of specifications

Less than 5 A AC and more than 0 A AC Span : Less than 5 A AC and more than 1 A 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 Negative output:more than 10kΩ	
3	-10 to 10V DC		
4	-2 to 2VDC		
5	-2.5 to 2.5VDC	More than 2kΩ Negative output:more than 10kΩ	
6	-5 to 5VDC		
7	0 to 4VDC	More than 2kΩ	
Α	4 to 20mADC	Less than 550Ω	
В	0 to 20mADC		
Υ	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 : $10 k\Omega$ 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

Base Accuracy : ±0.2%F.S (5 to 100%F.S)(25°C±2°C) ±1.0%F.S (0 to 5%F.S)(25°C±2°C)

Power supply variation : ± 0.06 %F.S ($\pm 0.5\%$ to the input of 0 to 5%) Load resistance variation : ± 0.1 %F.S ($\pm 0.5\%$ to the input of 0 to 5%)

Frequency variation: ±3 %F.S(Based on 60Hz)

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

Response time : Less than 700msec $(0\rightarrow90\%)$ Front adjustments : $\pm5\%$ 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 ±10 %

Consuming current: Less than 25mA (24VDC at voltage output)

Less than 40mA (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; ampliutde(half): 0.15mm

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

Applicable standards : EN61326-1

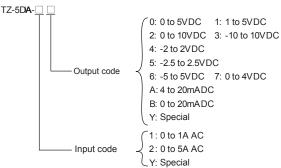
Only in the case of lines < 30m. The above standards do not apply to the converter with "Y" specificaions.

EN61326-1, EN IEC 63000

■ Features

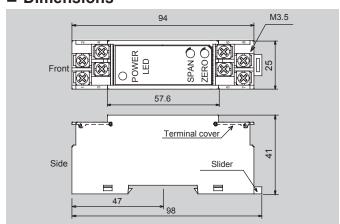
- DC power supply 24V DC
- DIN rail mounting
- Input/Output/Power supply isolated

Ordering Code

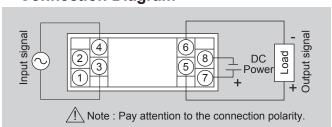


(Example) TZ-5DA - 1A

■ Dimensions



■ Connection Diagram



■ Block Diagram

