TZ-41 INSTRUCTION MANUAL

A Caution

- (1) The application of voltage or current exceeding its maximum allowable value to the input terminals may result in instrument damage.
- (2) The supply of power out of its allowable range may cause fire, electric shock or instrument failure.
- (3) The content of this manual may subject to change without prior notice for product improvement.
- (4) This manual is carefully prepared. However, if any question arises, or any mistake, omission or suggestion is found in the content of this manual, contact your nearest our sales agent.(5) After read this manual, please keep it as anytime can see.

■Outline

This Device is Self-Powered DC Current Isolator.

So Output Current is as same as Input Current.

Especialy it is very small size for snap mounting on DIN rail, So that is economic and easy to use.

■General Specification

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Input	: DC Current 0 to 20mA
	(4 to 20mA)
Translation ratio	: 1:1
Overload capacity	: Less than 30mA
Time constant	: Approx 50ms(0 to 90%)
Allowable load resistance	: Less than $1k\Omega$
Voltage loss across	: Approx 3.3V
isolation transformer	
Ripple in output	: Less than 0.5% F.S
Insulated Resistance	: More than 100M Ω at DC 500V
	between input and output
Dielectric strength	: 1 min at 2kV AC between input and output
Mecanical design	: Type of snap mount on DIN rail
Weight	: Approx. 80g
Accuracy	
Reference value	: 20mA
Limit of error at	: Max. 0.1% F.S
reference condition	
*Reference condition	
Ambient temperature	: $23^{\circ}C \pm 1^{\circ}C$

: 250 Ω

■Additional Error Dependence on external risistance Temperature influence ■Additional Error : +0.1%F.S/100Ω if RL<250Ω +0.3%F.S/100Ω if RL<250Ω -0.1%F.S/100Ω if RL>250Ω : Less than 100ppm/℃(250±200Ω)

■Input/Output Connection Diagram

External resistance



Less than 400ppm/°C

(Other than the avove)

■Mounting and Dismounting



Mounting (A)Hook the upper side on the rail. (B)Push the lower side into the rail.

DIN rail

Dismounting (A)Push the slider down with

- a screwdriver. (B)Pull the device toward you
- to disengage the lower side from rail (C)Disengage the upper side

from the rail.

Note: If device dislocation may occur after mounting.

- It is recommended that fixing metal pieces be used.
 - If two or more devices are closely mounted, do not contact them each other directly, but insert a spacer between them.

Precautions

- a)Use this device at ambient temperature between -10 and +70 $^{\circ}\mathrm{C}$ and in humidity of up to 60%.
- b) Avoid using the device at a location where dust, and chemicals and gases harmfull to electric components do not exist.
- c)Do not subject the device to vibration and shock.

d)In order to lessen an influence by noise, neither bundle input/output and power wires together nor accommodate them in the same duct.

WARRANTY

The warranty period is for one year from the day it was delivered. Trouble occurring in this period and considered to be our fault will be remedied free of charge.

■AFTER-SALE DERVICE

This device is delivered after being manufactured, tested and inspected under strict quality control.

However, if any trouble does occur, contact your nearest Watanabe agent, giving as much information on the trouble as possible. (Please send the faulty device together with details of the trouble in writing.)

■Applicable standards

EN61326-1 EMI: Class A EMS: Industrial locations Only in the case of lines<30m EN IEC 63000



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