

# TERMINAL TYPE TRANSMITTER

## TZ-41



### ■ Features

- Miniature Size
- Self-powered
- Easy Connection
- DIN rail mount

### ■ Specifications

Signal Input: 0 to 20mA, 4 to 20mA or 0 to 5mA  
 Signal Output: 0 to 20mA, 4 to 20mA or 0 to 5mA  
 Input Current: Max. 30mA  
 Load: Max. 600Ω  
 Voltage loss between input and output: Approx. 3.3V  
 Output Ripple: Less than 0.5% (20mA at 250W)  
 Temp. Coefficient: Less than ±100PPM/°C  
 Accuracy: ±0.1% (23°C±1°C) at 250W load  
 Additional Error: +0.1%/100W at load, 250W  
 -0.1%/100W at load, 250W  
 Operating Temp: -5 to +50°C, less than 90% RH  
 Mechanical Design: Type of snap mount on DIN rail  
 Insulated Resistance: More than 100MW at 500VDC between input and output  
 Dielectric Strength: 1 min. at 2kVAC between input and output  
 Weight: Approx. 80g

### ■ INPUT/OUTPUT

TZ-41 is designed as "Self Powered Isolation" and transformation ratio is 1:1. Input current is 0 to 20mA, but customers can use input current ranges 0 to 5mA, 0 to 20mA or 4 to 20mA. Having 1:1 isolation the output current will of course be the same as the input current, e.g., 0 to 5mA, 0 to 20mA, 4 to 20mA. TZ-41 will provide 0 to 5V or 1 to 5V output.

### ■ Output load and Accuracy

Please note the TZ-41 can operate into a load of up to 600W. Accuracy is a function of load resistance. Standard accuracy is +/- 0.1% with a 250W load and ambient temp. of 23±1°C. For loads other than 250W accuracy changes as shown below.

Example load 450Ω

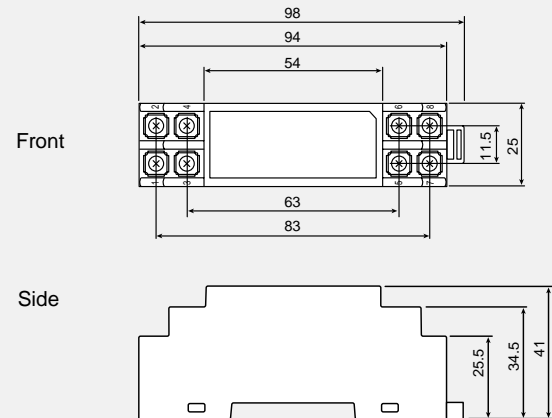
Standard accuracy: ±0.1%

Additional error (+200W): ±0.1% - 0.2% = -0.1% to -0.3%  
 (-0.1%/100Ω at load > 250Ω)

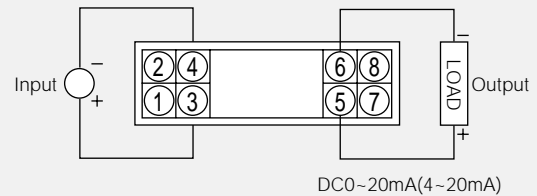
### ■ Ordering Code

TZ-41

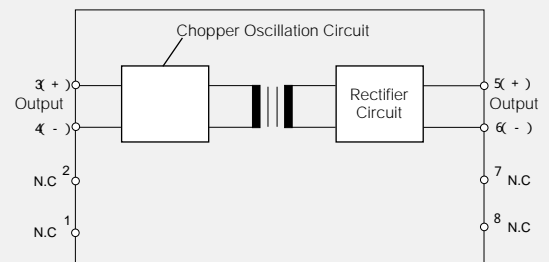
### ■ Dimensions



### ■ Connection Diagram



### ■ Block Diagram



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