

TERMINAL TYPE TRANSMITTER

TZ-41



■ Features

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

■ Specifications

Signal Input: $\begin{cases} 0 \text{ to } 20\text{mA}, & 4 \text{ to } 20\text{mA} \text{ or } 0 \text{ to } 5\text{mA} \\ 0 \text{ to } 20\text{mA}, & 4 \text{ to } 20\text{mA} \text{ or } 0 \text{ to } 5\text{mA} \end{cases}$
 Signal Output: $\begin{cases} 0 \text{ to } 20\text{mA}, & 4 \text{ to } 20\text{mA} \text{ or } 0 \text{ to } 5\text{mA} \\ 0 \text{ to } 20\text{mA}, & 4 \text{ to } 20\text{mA} \text{ or } 0 \text{ to } 5\text{mA} \end{cases}$
 Input Current: Max. 30mA
 Load: Max. 600
 Voltage loss between input and output: Approx. 3.3V
 Output Ripple: Less than 0.5% (20mA at 250W)
 Temp. Coefficient: Less than $\pm 100\text{PPM}/^\circ\text{C}$
 Accuracy: $\pm 0.1\%$ ($23^\circ\text{C} \pm 1^\circ\text{C}$) at 250W load
 Additional Error: $+0.1\%/100\text{W}$ at load, 250W
 $-0.1\%/100\text{W}$ at load, 250W
 Operating Temp: -5 to $+50^\circ\text{C}$, 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
 Applicable standards: EN61326-1, EN IEC 63000

■ 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

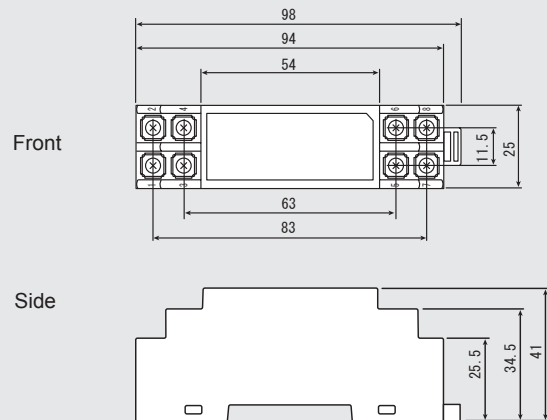
Please note the TZ-41 can operate into a load of up to 600W. Accuracy is a function of load resistance. Standard accuracy is $\pm 0.1\%$ with a 250W load and ambient temp. of $23 \pm 1^\circ\text{C}$. For loads other than 250W accuracy changes as shown below.

Example load 450
 Standard accuracy: $\pm 0.1\%$
 Additional error (+200W): $\pm 0.1\% - 0.2\% = -0.1\%$ to -0.3%
 ($-0.1\%/100$ at load > 250)

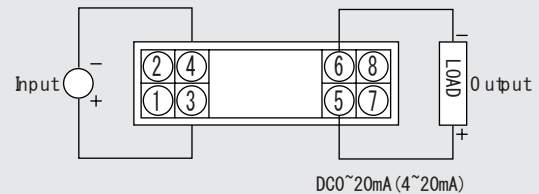
■ Ordering Code

TZ-41

■ Dimensions



■ Connection Diagram



■ Block Diagram

