

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

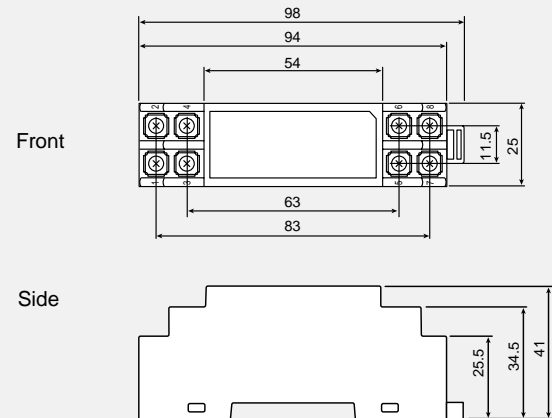
Standard accuracy: ±0.1%

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

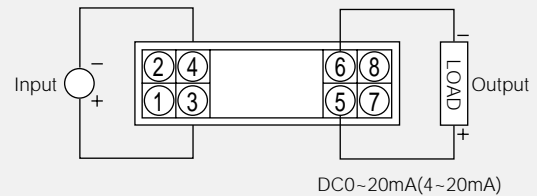
■ Ordering Code

TZ-41

■ Dimensions



■ Connection Diagram



■ Block Diagram

