# 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. 600
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.
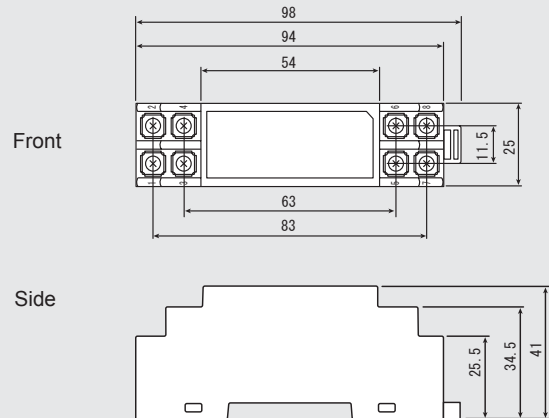TZ-41 will provide 0 to 5V or 1 to 5V output.

■ **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 then 250W
accuracy changes as shown below.

Example load 450
Standard accuracy: ±0.1%
Additional error (+200W): ±0.1% − 0.2%=−0.1% to −0.3%
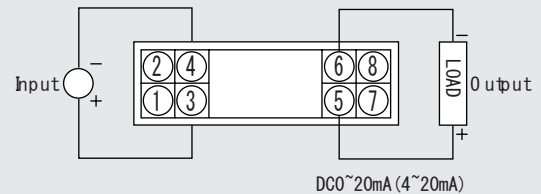　　　　　　　　　　　　　(−0.1%/100 atload>250 )

■ **Ordering Code**

**TZ-41**

■ **Dimensions**



■ **Connection Diagram**



■ **Block Diagram**



**HUGO TILLQUIST AB**

Box 1120, 164 22, Kista, Sweden
Finlandsgatan 16, Kista
Tel +46 8 594 632 00
www.tillquist.com