

Temperature Transducer T100



1. General Description

T100 Series of temperature transducers based on high quality thermal resistors cover the temperature range from 0~140°C and is powered by 12~30VDC. The outputs have 4~20mA, 1~5V, 0-20mA, and more available for most industrial applications. The temperature transducer has high stability and accuracy and can be easily installed to record, control, and display the real time temperature value for gaseous media, liquid media, and solid substances.

2. Technical Details

Accuracy: 0.5 % FS, 0.25%FS Output: 4-20mA(2 wires), 1-5V(3 wires),etc.

Electrical connection: Din43650, Direct Cable, M12 series, Aviation Plug,etc.

Excitation: +24VDC (12~30VDC)

Load Capacity: Rated load 250Ω. (At 24VDC power supply, resistor value is optional from 0~600Ω.)

Operating temperature: Environmental temperature: -25~80°C Relative humidity: 5% ~95 %

Vibration tolerance: $f \leq 50\text{Hz}$, amplitude < 0.15mm

Environmental temperature effect: $\leq 0.05/1^\circ\text{C}$

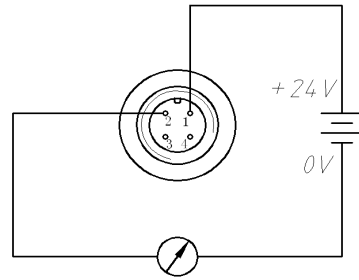
Mechanical connection: G1/2, G1/4, NPT1/2, NPT1/4, etc.

Diameter of the housing: $\phi 27\text{mm}$

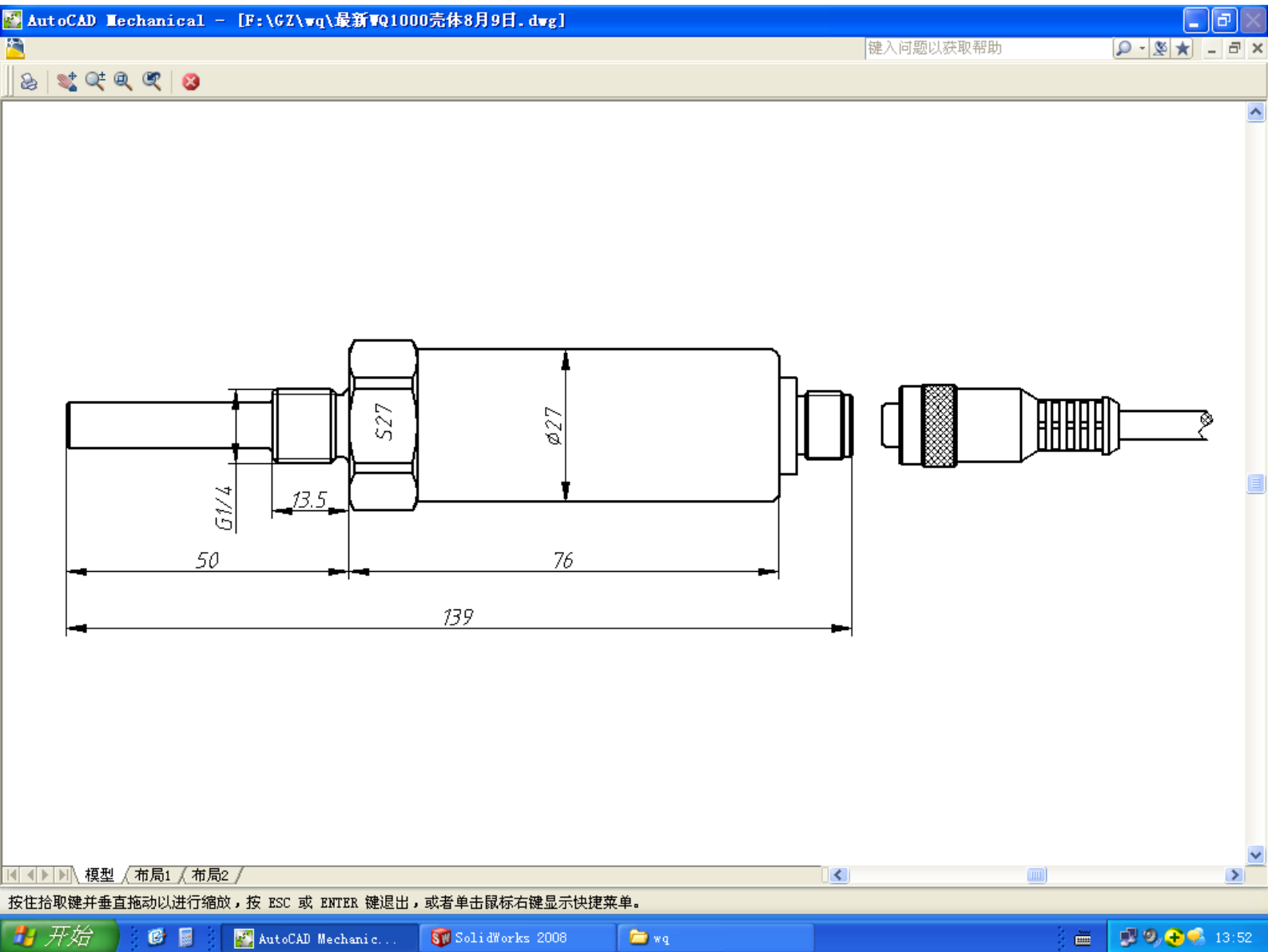
Housing material: Stainless steel

3. Wiring diagram and mechanical diagram

Wiring Diagram for 4-20mA (2 wires type)



Mechanical diagram (M12X1 connection)



4. Notices.

1. Please check the package carefully to make sure that the temperature transducer has the same technical specifications as you have ordered.

2.Only after checking technical specifications and completing wire connection, shall power supply be supplied to temperature transducers.

3.The housing of transducer shall remain in the temperature value under 85°C

4.The surrounding air should not contain substances that corrode Nickel,chromium,and iron.

5. Order codes

T100 - R- O- A- P-E

R: temperature range 0-140 °C **O:** Output 4~20mA, 1~5V, 0-20mA, etc **A :** Accuracy 0.5% or 0.25%. **P:** Process Connection G1/2,G1/4,NPT1/2,NPT1/4,etc. **E:** Electrical connection Din43650,

Direct Cable, M12 series, Aviation Plug,etc

Example: **T100- 0/100- 4/20- 0.5 - G1/2 - DIN** (Range: 0 - 100 °C, Output: 4 -20mA , Accuracy: 0.5%FS, G1/2: G1/2 Process connection, Din: Din43650 electrical connection,)