

铂电阻温度变换器

Platinum Resistance Temperature Converter

CY-0014系列

本系列变换器是专门与铂电阻式温度传感器配套的信号调节器，它由输入电路，放大电路，二次电源电路，限幅电路，电压基准电路等部分组成。它给传感器恒流供电用于将传感器输出的电阻信号转换为相对应的0~5V电压信号（有输出限幅功能）

性能指标

测量范围：YA8-150子系列：-260~-200℃，-250~-150℃，-230~-50℃，-210~-50℃，-190~-50℃，170~-50℃，-150~-50℃，

YA8-151子系列：-200~+50℃，-170~+50℃，-140~+50℃，-110~+50℃，-70~+50℃

YA8-152子系列：-50~+100，-50~+150，-50~+200，-50~+250，-50~+300，-50~+350，-50~+400，-50~+450，-50~+500℃

环境温度：-40~+85℃

精度：±1.5%（包括重复性，非线性，温度误差）

结构特点：壳体采用可积木式安装的结构，便于实现多路组合安装

接插件：J14A-9ZJ

变换器供电电压：12V、15V均可，功耗正负电源各小于12mA

输出电压：0.2±0.1V~4.8±0.1V(DC)；

输出阻抗：≤1K；

输出限幅电压：上限不大于+6.5V；下限不小于-0.5V；

输出噪声电压有效值：≤10mV；

绝缘电阻：≥20M；

产品质量：产品质量不大于80g；

过载：加速度：633g，三向

运输：2~7Hz，12.7mm；7~200Hz，1.5g 三向

低气压：0.1MPa~6.66x10⁻⁵Pa

湿热：见图1

This series transformer is a signal conditioner fitted with Platinum resistance temperature sensor, it is composed of input circuit, amplifying circuit and the secondary power supply circuit, limiter circuit, voltage reference circuit and other parts. It provides sensor constant current power supply to convert the resistance output signal of the sensor to the corresponding 0 to 5 v voltage signal (output amplitude limiting)

Performance Index

Measurement range: YA8-150: -260~-200℃, -250~-150℃, -230~-50℃, -210~-50℃, -190~-50℃, 170~-50℃, -150~-50℃,

YA8-151: -200~+50℃, -170~+50℃, -140~+50℃, -110~+50℃, -70~+50℃

YA8-152: -50~+100, -50~+150, -50~+200, -50~+250, -50~+300, -50~+350, -50~+400, -50~+450, -50~+500℃

Environmental temperature: -40~+85℃

Accuracy: ±1.5% (Including repeatability, nonlinear and temperature error)

Structural features: case adopts modular structure to realize multiple combination installation.

Connector assembly: J14A-9ZJ

Power supply of converter: both both 12V and 15V, The positive and negative power consumption are less than 12mA respectively

Voltage output: 0.2±0.1V~4.8±0.1V(DC);

output impedance: ≤1K;

output voltage limit: upper limit no more than +6.5V;

lower limit no less than -0.5V;

The output noise voltage RMS: ≤10mV;

insulation resistance: ≥20M;

weight: weight is no more than 80g;

Overload: Accelerated speed: 633g, three-dimension

Transportation: 2~7Hz, 12.7mm; 7~200Hz, 1.5g three-dimension

Low air pressure: 0.1MPa~6.66x10⁻⁵Pa

Humidity: figure 1

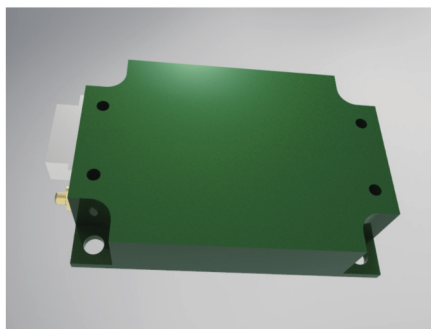
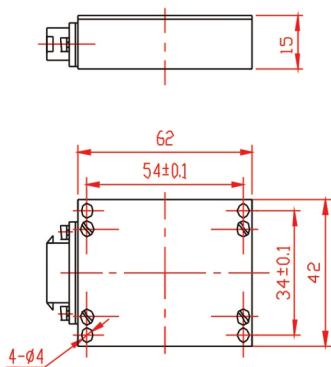


图1 figure 1

接点分配 Contact distribution

1	2	3	4	5	6	7	8	9
+15V	信号地 signal earthing	机械地 machinery earthing	-15V	V _o	NC	3入	2入	1入