

QT-SICR - RTD SIGNAL ISOLATOR



- » Slim Design
- » Highly Reliable Performance
- » Easy for Installation
- » DIN Rail Mount



Years Warranty



Industrial Grade DIN Rail Mount

QT-SICR series thermal resistance signal isolator, received from the field thermal resistance signal, through the isolation transformer output standard current / voltage signal to the control room, PLC display instrument and DCS. Through the mini-USB interface to connect the PC upper computer to the input signal indexing, measurement range, alarm output value; Output measurement range, type, etc. Rs485 communication function (to be customized). The product needs independent power supply, using DIN35mm standard guide rail in dependent installation mode (can choose the function of bus power supply); The input, output and power supply are isolated from each other.

TECHNICAL PARAMETER

INPUT

Power Supply	24 VDC (Range 18 ~ 32 VDC)
Current Consumption	≤ 50 mA (1 IN / 1 OUT, 24 V, 20 mA Output) ≤ 70 mA (1 IN / 2 OUT, 24 V, 20 mA Output)

TYPE	Min. RANGE	ABSOLUTE ERROR
Cu50	20°C	0.2°C / $\pm 0.1\%$
Cu100	20°C	0.2°C / $\pm 0.1\%$
Pt100	20°C	0.2°C / $\pm 0.1\%$
Pt1000	20°C	0.1°C / $\pm 0.1\%$
Pt500	20°C	0.1°C / $\pm 0.1\%$
Ni100	20°C	0.1°C / $\pm 0.1\%$
Ni1000	20°C	0.1°C / $\pm 0.1\%$
R3	10 Ω	0.1 Ω / $\pm 0.1\%$
	10 Ω	0.5 Ω / $\pm 0.1\%$
R5	10 Ω	3.0 Ω / $\pm 0.1\%$



TECHNICAL PARAMETER

OUTPUT

Output accuracy absolute error / output range, the maximum value is taken when applying.

The type and range of current and voltage signal can be set by PC.

Output Load Resistance : $RL \leq 400 \Omega$ (Output is current signal)

$RL \geq 10K \Omega$ (Output is voltage signal)

SIGNAL TYPE	MEASUREMENT RANGE	ABSOLUTE ERROR
Current	DC 0 ~ 20 Ma	0.01 mA
Voltage	DC 0 ~ 10 V	0.008 V

POWER

Power Input 24V DC

RELIABILITY PARAMETERS

Working temperature	-20 °C ~55°C
Storage temperature	-30 °C ~70 °C
Operating humidity	10%~90% @30°C, no-condensation

MECHANICAL

Overall size	115 x 100 x 12.8mm mm
Operating Weight	Net : 80 gm Gross : 100 gm
Product certification	CE / RoHS

SELECTION TABLE

QT-SICR	X	X	X	
Channel	1			1 IN / 1 OUT
	2			1 IN / 2 OUT
INPUT		1		Cu50 (-50 ~ + 150°C)
		2		Cu100 (-50 ~ + 150°C)
		3		Pt100 (-200 ~ + 850°C)
		4		Pt1000 (-200 ~ + 250°C)
		5		Pt500 (-200 ~ + 250°C)
		6		Ni100 (-60 ~ + 180°C)
		7		Ni1000 (-60 ~ + 150°C)
		8		Ni5000 (-60 ~ + 180°C)
		9		Resistance, potentiometer(0~3KΩ)
		0		Resistance, potentiometer(0~5KΩ)
OUTPUT		1		4~20 Ma
		2		0~20 mA
		3		0~5 V

DIMENSIONS

