

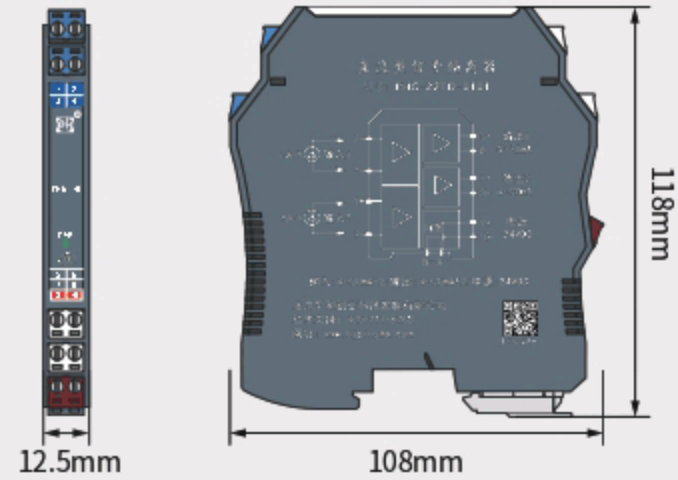
Analogue input (output) signal isolators

PHG-22TD series

2 inputs 2 outputs

Input: DC signal(current/voltage)

Output: DC signal(current/voltage)



Overview

PHG-22TD series analog input (output) signal isolator can isolate and convert current or voltage signals into current or voltage signal output. The input and output parameters can be customized according to user needs.

This product needs to be powered independently, and the power supply, input and output terminals are isolated.

Specifications

Input:

Input signal: DC signal(current/voltage)

Input resistance: Voltage type $\geq 100k\Omega$
Current type $\leq 100\Omega$

Output:

Output signal: DC signal(current/voltage)

Load Resistance: Current load resistance $\leq 500\Omega$
Voltage load resistance $< 5mA$

Basic parameters:

Supply voltage: 20~35V DC

Power consumption: Current output $< 1.6W$
Voltage output $< 1W$

LED indicator: Green——power indicator

Output accuracy: 0.1%F.S (Typical value: 0.05% F.S)

Response time: 5ms to reach 90% of the final value

Temperature drift: 0.005%F.S/°C

Temperature parameters: Working temperature: $-20^{\circ}C \sim +60^{\circ}C$
Storage temperature: $-40^{\circ}C \sim +80^{\circ}C$

Relative humidity: 10%~95% RH no condensation

Insulation strength: $\geq 2000VAC/min$ (input/output/power supply)

Insulation resistance: $\geq 100M\Omega$ (500V DC)
(between input/output/power supply)

EMC: GB/T 18268 (IEC 61326-1)

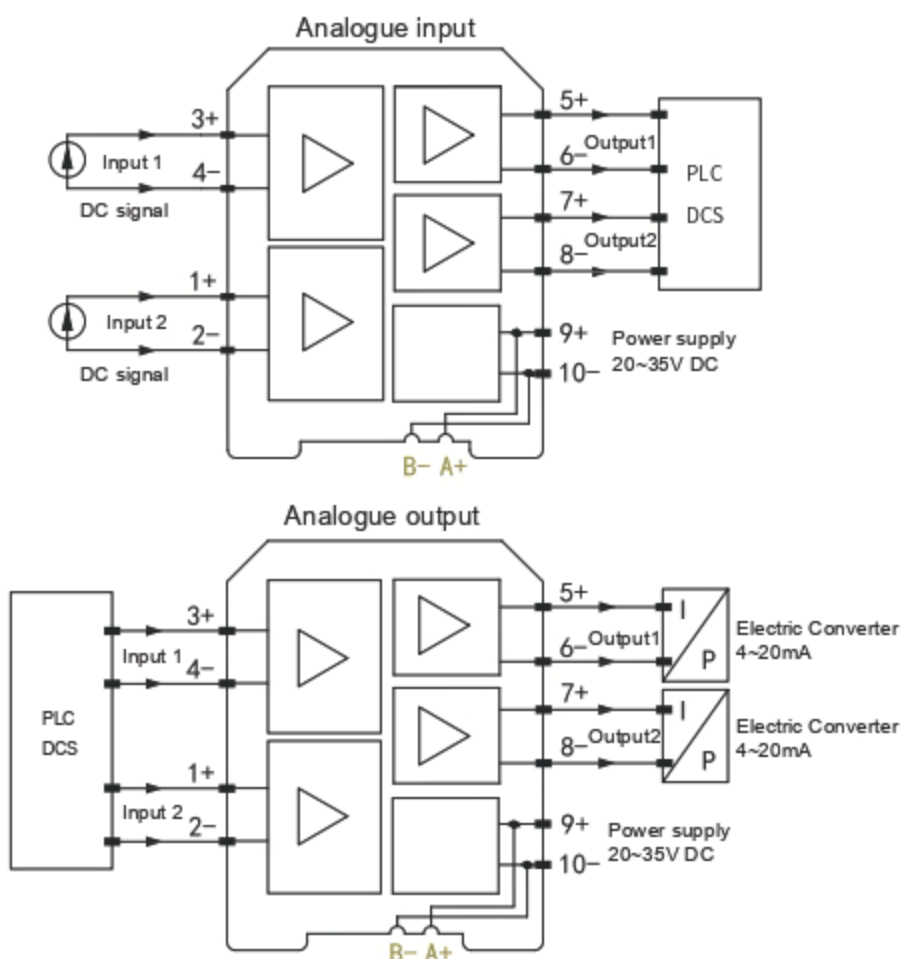
MTBF: 80000h

Wire requirements: Cross section $\geq 0.5mm^2$

Insulation strength $\geq 500V$

Applicable field equipments: Current source, voltage source;
valve positioner, electrical converter

Schematic diagram



Note: The power rail function is an optional function, and users need to specify the power supply method when placing an order
The selection of power rail connectors can refer to page 89 of the "Annex"

Specifications, models and codes

PHG-22TD-□□□□		Input and output parameter definitions	
Code	Parameters	Code	Parameters
1	4~20mA	3	0~5V
3	0~5V	4	0~10V
4	0~10V	5	1~5V
5	1~5V	6	0~75mV
6	0~75mV	7	$\pm 10V$
7	$\pm 10V$	8	Customized parameters
8	Customized parameters		

For example: two inputs and two outputs, two inputs with 4-20mA, two outputs 4-20mA, 24V power supply, model should be: PHG-22TD-1111