

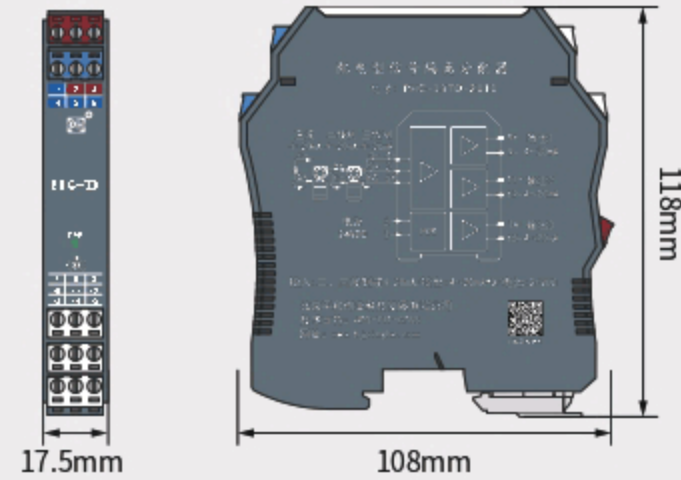
Analogue input signal isolators

PHG-13TD series PHG-14TD series

1 input 3 outputs
1 input 4 outputs

Input: 2 wire, 3 wire transmitter or DC signal

Output: DC signal(current/voltage)



Overview

Analog input signal isolator, capable of isolating and converting two or three wire 4-20mA or DC signals into current or voltage signals for output. Input and output parameters can be customized according to user needs.

This product requires independent power supply, with isolated power supply, input, and output terminals.

Specifications

Input:

Input signal: 2 wire, 3 wire 4-20mA or 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 $< 2.2W$; Voltage output $< 1W$
(PHG-13TD series)
Current output $< 2.6W$; Voltage output $< 1W$
(PHG-14TD series)

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)

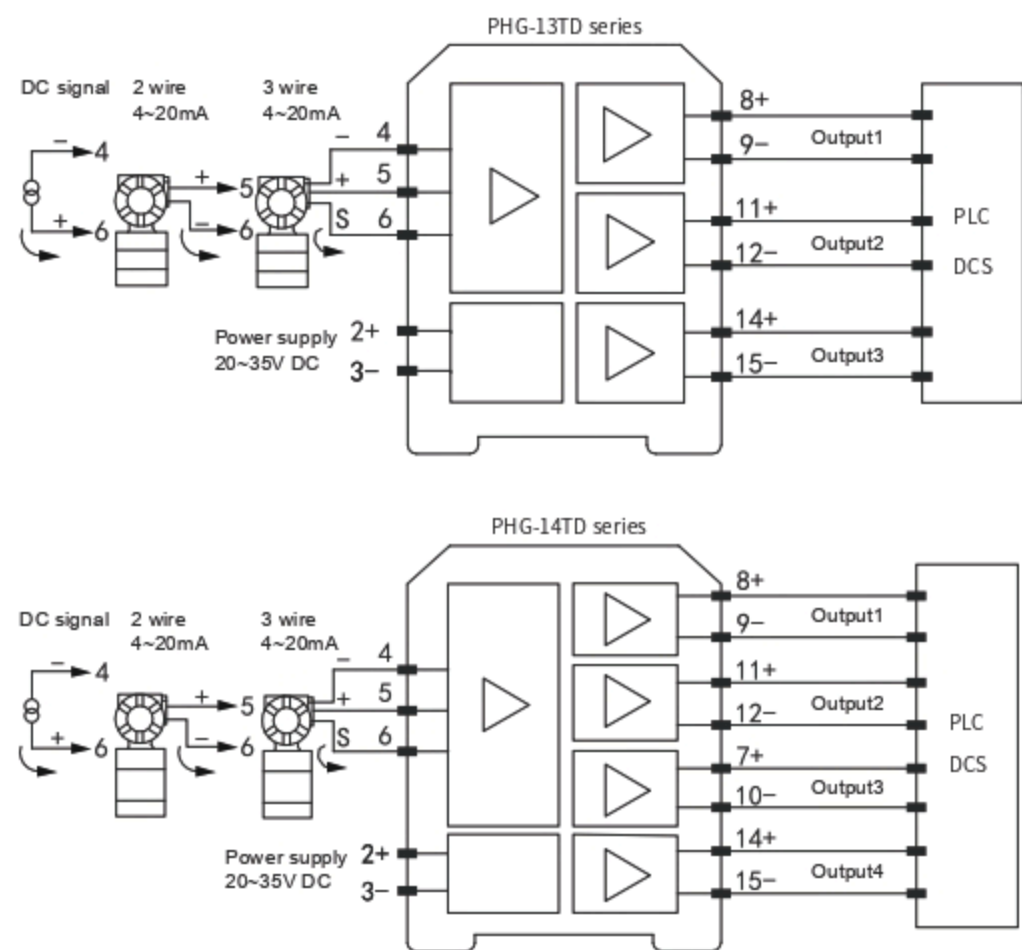
MTBF: 80000h

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

Insulation strength $\geq 500V$

Applicable field equipments: 2 wire, 3 wire transmitters or current and voltage sources

Schematic diagram



Specifications, models and codes

PHG-1□TD-□□□□□		Input and output parameter definitions	
Number of input channels	Number of output channels	Code	Parameters
1	3	1	4~20mA
1	4	2	2 wire, 3 wire transmitter or 4~20mA(Input)
1	3	3	0~5V
1	4	4	0~10V
1	3	5	1~5V
1	4	6	0~75mV
1	3	7	$\pm 10V$
1	4	8	Customized parameters

For example: 1 input and 3 outputs, 4~20mA input, 3 outputs 4-20mA, 24V power supply, model should be: PHG-13TD-1111

1 input 4 outputs, 4-20mA input, four 4~20mA outputs, 24V power supply, model: PHG-14TD-11111