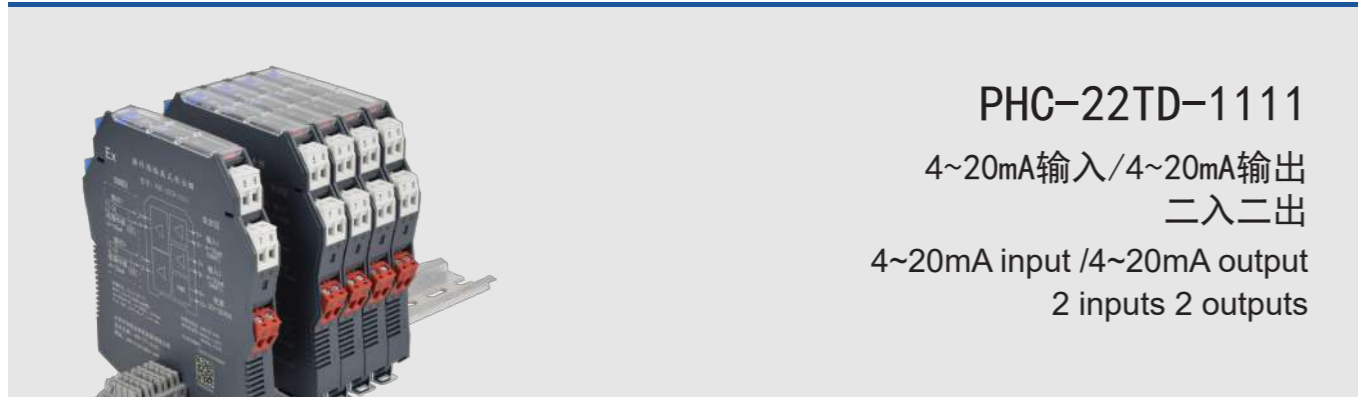


# 操作端安全栅 Isolated Safety Barrier at Operating Side

# Analog Output 模拟量输出



## 概述 Overview

隔离式操作端安全栅PHC-22TD-1111，模拟量输入输出，两路输入两路输出。

安全栅可将安全区4~20mA信号传输到危险区，驱动现场的阀门定位器、电/气转换器等执行机构工作。

本产品需要外接20~35VDC电源。

电源、输入、输出三端隔离。

\*总线端子供电，详见附录。

Isolated safety barrier at operating side: PHC-22TD-1111, dual input and dual output with analog signal.

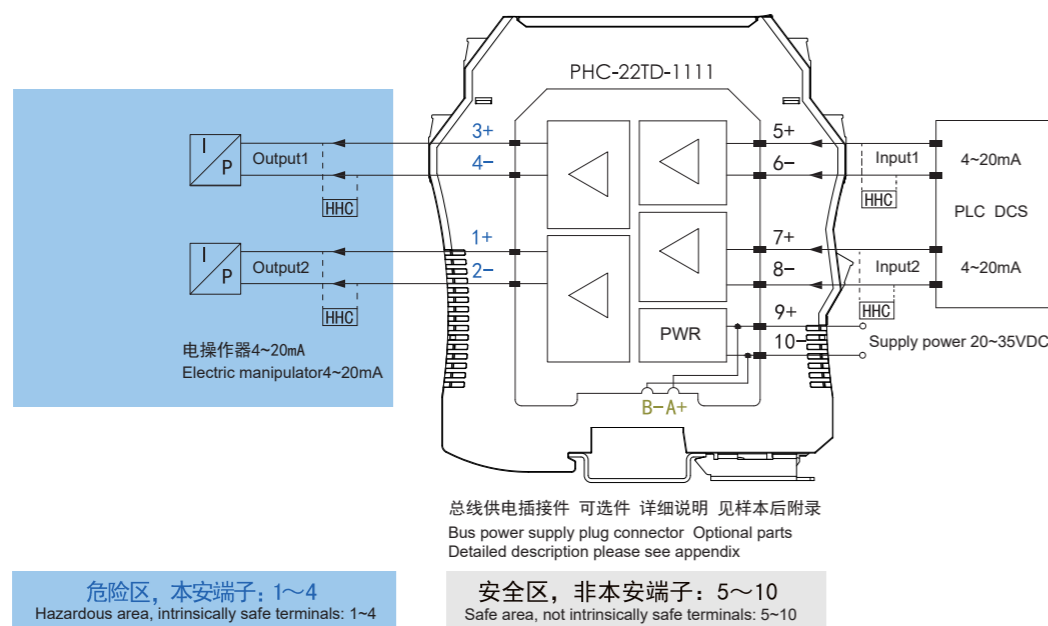
The safety barrier can transmit the 4~20mA signal from safe area to the dangerous area, to drive the valve positioner, electric/gas converters and other actuators to work.

This product needs an external 20~35VDC power supply.

Terminal isolation between power supply, input and output.

\* Bus terminal power supply, please see appendix for details.

## 接线图 Wiring diagram



## 技术数据 Specifications

供电电压 Supply voltage	20~35VDC, 功耗约2W (24VDC, 输出20mA时) 20~35VDC, power consumption about 2W (when 24 VDC, output 20mA)
输入信号 Input signal	4~20mA (HART)
输出信号 Output signal	4~20mA (HART)
允许输出负载能力 Allowable output load capacity	0~500Ω (可定制) 0~500Ω (customizable)
输出精度 Output accuracy	0.1%F.S (典型值: 0.05%F.S) 0.1%F.S (Typical value: 0.05% F.S)
温度漂移 Temperature drift	0.005%F.S/°C
输入输出路数 Number of input and output	二路输入, 二路输出 2 inputs 2 outputs
适用的现场设备 Applicable field equipments	阀门定位器, 电/气转换器 Valve positioner, electric/pneumatic converter
温度参数 Temperature parameters	工作温度: -20°C~+60°C, 存储温度: -40°C~+80°C Working temperature: -20 C~+60 C, storage temperature: -40 C~+80 C
空气相对湿度 Relative humidity	10%~95%RH无凝露 10%~95% RH no condensation
绝缘强度 Insulation strength	本安端与非本安端 (≥3000VAC/min); 电源与非本安端之间 (≥1500VAC/min) Between intrinsically safe side and non-intrinsically safe side (≥3000VAC/min); between power supply and non-intrinsically safe side (≥1500VAC/min)
绝缘电阻 Insulation resistance	≥100MΩ (输入/输出/电源间) ≥100MΩ (between input/output/power supply)
电磁兼容性 Electromagnetic compatibility	符合IEC 61326-1 (GB/T 18268), IEC 61326-3-1 According to IEC 61326-1 (GB/T 18268), IEC 61326-3-1
防爆标志 Explosion-proof mark	[Exia Ga] IIC
认证机构 Certification body	国家防爆电气产品质量监督检验中心CQST认证 CQST (China National Quality Supervision and Test Centre for Explosion Protected Electrical Products)
认证参数 (端子1-2, 3-4之间) Certified parameters (between terminals 1,2, 3,4)	Um=250V Uo=28V Io=93mA Co=0.05μF Lo=2.4mH Po=0.65W
安装场所要求 Installation place requirements	可与具有IIA、IIB、IIC危险气体的0区本安仪表相连接 It can be connected with instruments in 0 zone with IIA, IIB, IIC dangerous gas
平均无故障时间 MTBF	约100000小时 About 100000h

## 端子定义及外形尺寸 Terminal assignments and dimensions

端子 Terminal	接线端子功能定义 Terminal assignments	
9	供电电源+ Power supply +	20~35VDC
10	供电电源- Power supply -	
5	输入1+ Input1+	4~20mA
6	输入1- Input1-	
7	输入2+ Input2+	4~20mA
8	输入2- Input2-	
3	输出1+ Output1+	4~20mA
4	输出1- Output1-	
1	输出2+ Output2+	4~20mA
2	输出2- Output2-	

