

P305X系列 - 防爆型压力变送器

- ▶ 抗电磁干扰设计
- ▶ 测量范围1kPa...40MPa
- ▶ 多种输出方式可选
- ▶ IP67防护等级
- ▶ 防爆认证
- ▶ 0.075%量程精度

P305X隔爆压力变送器采用单晶硅技术压力传感器，单晶硅压力传感器位于金属本体顶部，远离介质接触面，实现机械隔离和热隔离，玻璃烧结一体的传感器引线金属基体的高强度电气绝缘，提高了电子线路的灵活性能与耐瞬变电压保护的能力，可应对复杂的化学场合和机械负荷，同时具备较强的抗电磁干扰能力，适合苛刻的流程工业环境中压力、液位或流量测量应用。

Specifications 规格表

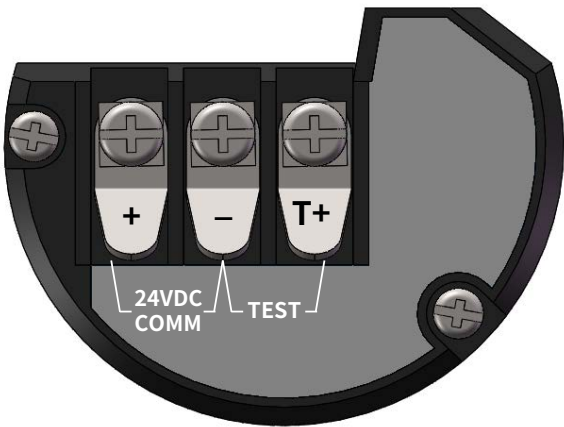
|           |                                        |
|-----------|----------------------------------------|
| 测量介质      | 与接触材质兼容的流体                             |
| 量程范围      | 1 kPa...40MPa                          |
| 输出信号      | 4-20mA、4-20mA+HART、Modbus-RTU/RS485及其它 |
| 供电电源      |                                        |
| 标准型/隔爆型   | 10.5-55VDC                             |
| HART通讯协议  | 16.5-55VDC,通讯时负载电阻250Ω                 |
| RS485     | 12-32VDC,                              |
| 负载电阻      | 0-2119Ω为工作状态，250-600ΩHART通讯            |
| 传输距离      | <1000米                                 |
| 功耗        | <500mW@24VDC，20.8mA                    |
| 准确度       | ≤±0.075%量程上限                           |
| 稳定性（年漂移量） | ≤±0.2%量程上限/5年                          |
| 温度        |                                        |
| 介质温度      | -40...120℃                             |
| 环境温度      | -40...85℃                              |
| 材料        |                                        |
| 隔离膜片      | 316不锈钢，哈氏合金C                           |
| 密封方式      | 不锈钢焊接密封                                |
| 防护等级      | IP67                                   |
| 防爆认证      | ExiaIICT4Ga，ExdIICT6Gb                 |
| 电气连接      | 两个出线口内螺纹M20×1.5                        |
| 过程连接      | 多种连接方式可选，详见选型表                         |



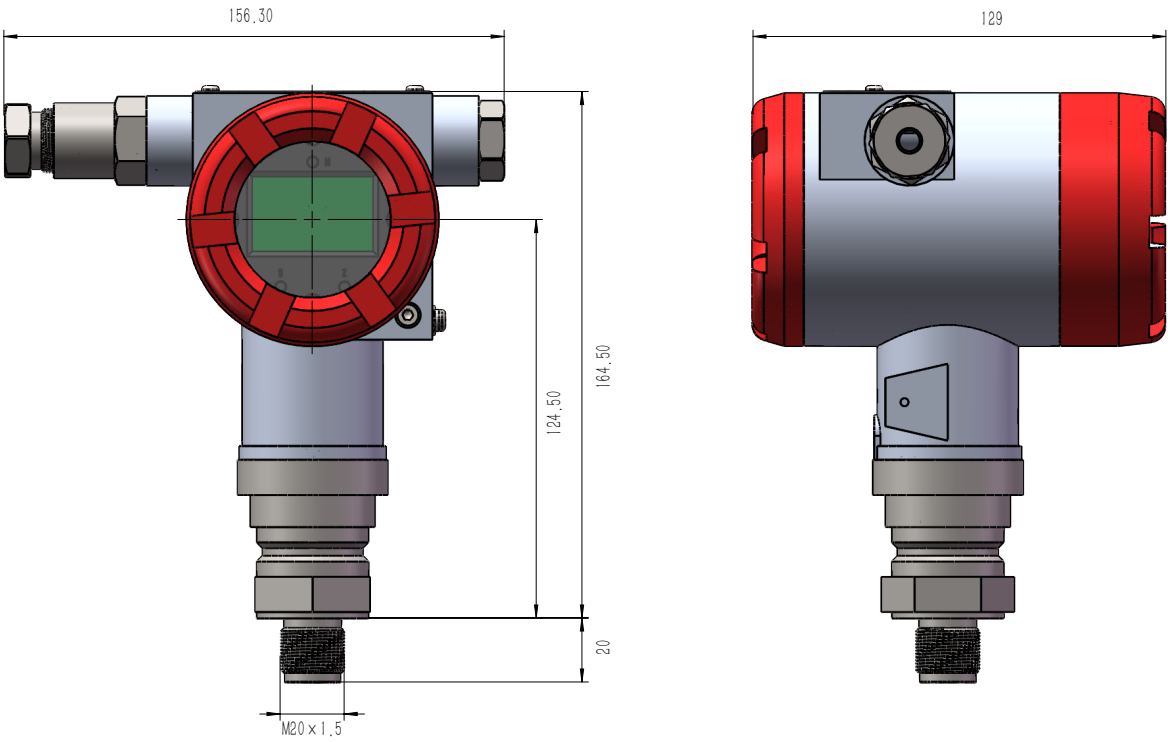
Applications 应用

- ▶ 液压和气动
- ▶ 智能传感控制器
- ▶ 机械制造
- ▶ 泵和压缩机
- ▶ 测试台
- ▶ 建筑自动化

Wiring 接线图



Dimensions in inches (mm) 尺寸图 inches (mm)



\*多种连接方式可选

## Recommend Product Order Code 推荐产品订货号

\*推荐产品型号通常备有库存，产品供货日期更快。更多产品选型请联系厂家！

| 产品订货号<br>Order NO. | 规格型号<br>Type             | 量程<br>Bar | 压力类型<br>N/P/A | 输出类型<br>mA/V          |
|--------------------|--------------------------|-----------|---------------|-----------------------|
| PX00N16            | P305X/B016N02/42G14MS    | -1...16   | 负压N           | 电流输出<br>二线制（4...20mA） |
| PX00N25            | P305X/B025N02/42G14MS    | -1...25   |               |                       |
| PX000,25           | P305X/B000.25P02/42G14MS | 0...0.25  | 正压P           |                       |
| PX0000,5           | P305X/B000.5P02/42G14MS  | 0...0.5   |               |                       |
| PX00001            | P305X/B001P02/42G14MS    | 0...1     |               |                       |
| PX00004            | P305X/B004P02/42G14MS    | 0...4     |               |                       |
| PX00006            | P305X/B006P02/42G14MS    | 0...6     |               |                       |
| PX00010            | P305X/B010P02/42G14MS    | 0...10    |               |                       |
| PX00016            | P305X/B016P02/42G14MS    | 0...16    |               |                       |
| PX00025            | P305X/B025P02/42G14MS    | 0...25    |               |                       |
| PX00040            | P305X/B040P02/42G14MS    | 0...40    |               |                       |
| PX00060            | P305X/B060P02/42G14MS    | 0...60    |               |                       |
| PX00100            | P305X/B100P02/42G14MS    | 0...100   |               |                       |
| PX00160            | P305X/B160P02/42G14MS    | 0...160   |               |                       |
| PX00250            | P305X/B250P02/42G14MS    | 0...250   |               |                       |
| PX00400            | P305X/B400P02/42G14MS    | 0...400   |               |                       |
| PX00600            | P305X/B600P02/42G14MS    | 0...600   |               |                       |
| PX00800            | P305X/B800P02/42G14MS    | 0...800   |               |                       |
| PX00A25            | P305X/B025A02/42G14MS    | 0...25    | 绝压A           |                       |
| PX00A50            | P305X/B050A02/42G14MS    | 0...50    |               |                       |

Model Number Table 选型表

|                    |      |                                  |     |    |      |   |   |
|--------------------|------|----------------------------------|-----|----|------|---|---|
| P305X : 隔爆型压力变送器   |      |                                  |     |    |      |   |   |
| 测量范围<br>(bar)      |      | B00.1= 0...0.1bar                |     |    |      |   |   |
|                    |      | B00.25= 0...0.25bar              |     |    |      |   |   |
|                    |      | B00.4= 0...0.4bar                |     |    |      |   |   |
|                    |      | B00.6= 0...0.6bar                |     |    |      |   |   |
|                    |      | B001= 0...1bar (负压型 -1...1bar)   |     |    |      |   |   |
|                    |      | B002= 0...2bar (负压型 -1...2bar)   |     |    |      |   |   |
|                    |      | B005= 0...5bar (负压型 -1...5bar)   |     |    |      |   |   |
|                    |      | B010= 0...10bar (负压型 -1...10bar) |     |    |      |   |   |
|                    |      | B016= 0...16bar (负压型 -1...16bar) |     |    |      |   |   |
|                    |      | B025= 0...25bar (负压型 -1...25bar) |     |    |      |   |   |
|                    |      | B060= 0...60bar                  |     |    |      |   |   |
|                    |      | B100= 0...100bar                 |     |    |      |   |   |
|                    |      | B160= 0...160bar                 |     |    |      |   |   |
|                    |      | B250= 0...250bar                 |     |    |      |   |   |
|                    |      | B400= 0...400bar                 |     |    |      |   |   |
|                    |      | B600= 0...600bar                 |     |    |      |   |   |
|                    |      | P : 正压                           |     |    |      |   |   |
|                    |      | N : 负压                           |     |    |      |   |   |
|                    |      | A : 绝压                           |     |    |      |   |   |
| P305X              | B100 | P                                | 02/ | 42 | G14M | S | / |
| 02 : 2线式           |      |                                  |     |    |      |   |   |
| 42: 4...20mA       |      |                                  |     |    |      |   |   |
| 02: 0...20mA       |      |                                  |     |    |      |   |   |
| 02H : HART         |      |                                  |     |    |      |   |   |
| 03M: RS485         |      |                                  |     |    |      |   |   |
| 过程连接               |      |                                  |     |    |      |   |   |
| M20 : M20×1.5外螺纹   |      |                                  |     |    |      |   |   |
| M14 : M14×1.5外螺纹   |      |                                  |     |    |      |   |   |
| G14M: G1/4外螺纹      |      |                                  |     |    |      |   |   |
| G12M: G1/2外螺纹      |      |                                  |     |    |      |   |   |
| N14M: NPT1/4外螺纹    |      |                                  |     |    |      |   |   |
| N12M: NPT1/2外螺纹    |      |                                  |     |    |      |   |   |
| M12M: M12×24°锥密封接头 |      |                                  |     |    |      |   |   |
| 膜片类型 :             |      |                                  |     |    |      |   |   |
| S:316L      T:钽    |      |                                  |     |    |      |   |   |
| H:哈氏合金      G:镀金   |      |                                  |     |    |      |   |   |
| 保留位                |      |                                  |     |    |      |   |   |

PRESSURE