

## 壓力傳送器 不銹鋼內隔膜型

## 型號: PM20S

## 簡介

PM20S 壓力傳送器採用高品質的矽壓阻感應器及不銹鋼 316L 隔離膜片結構，適用於各種不侵蝕不銹鋼之流體，產品的壓力接口和電氣接口型式多樣化，方便客戶現場安裝。

## 規格

|                   |                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 壓力範圍              | 負壓-0.1/0...-1/0bar 正壓 0/0.1...0/400bar 表壓；絕壓                                                                                                                                                                                                                 |
| 過載壓力              | 滿量程 x1.5 以下                                                                                                                                                                                                                                                  |
| 精度                | ±0.25%F.S.@25°C 線性度(最佳直線)+遲滯+重複性                                                                                                                                                                                                                             |
| 輸出信號<br>&<br>供應電源 | (二線式) 4...20mA / VS = 12...30VDC<br>(三線式) 0...5VDC / VS = 12...30VDC<br>(三線式) 1...5VDC / VS = 12...30VDC<br>(三線式) 0...10VDC / VS = 15...30VDC<br>(三線式) 0...2.5VDC / VS = 5VDC<br>(三線式) 0.5...4.5VDC / VS = 5VDC<br>(四線式) RS485 Modbus RTU / VS = 12... 30VDC |
| 電氣連結              | Hirschmann DIN43650；直接出線；M12*1 航插(另附線)                                                                                                                                                                                                                       |
| 接續螺紋              | 不銹鋼 SS316 1/4"、1/2" PT(R) / NPT / PF(G)；M20X1.5                                                                                                                                                                                                              |
| 本體材質              | 不銹鋼 SS304                                                                                                                                                                                                                                                    |
| 內膜片材質             | 不銹鋼 SS316L                                                                                                                                                                                                                                                   |
| 隔膜填充液             | 矽油                                                                                                                                                                                                                                                           |
| 感知器墊圈             | FKM(標準)；全焊型                                                                                                                                                                                                                                                  |
| 反應時間              | ≤1ms                                                                                                                                                                                                                                                         |
| 絕緣電阻              | 100MΩ@100Vdc                                                                                                                                                                                                                                                 |
| 機械震動              | 20gRMS (20-2000Hz)                                                                                                                                                                                                                                           |
| 衝擊                | 100g(10ms)                                                                                                                                                                                                                                                   |
| 補償溫度範圍            | -10...+70°C                                                                                                                                                                                                                                                  |
| 工作溫度              | -20...+85°C                                                                                                                                                                                                                                                  |
| 保護等級              | IP65；IP66(標準,直接出線型) 選項：IP68(直接出線型)                                                                                                                                                                                                                           |

## 電氣接口

| DIN43650     | 4...20mA<br>2-wire | 1...5VDC<br>3-wire | 0.5...4.5VDC<br>3-wire | RS485<br>4-wire |
|--------------|--------------------|--------------------|------------------------|-----------------|
| +Vcc         | 1                  | 1                  | 1                      | 1               |
| OUT          | 2                  | 3                  | 3                      | -               |
| GND          | -                  | 2                  | 2                      | 2               |
| RS485A       | -                  | -                  | -                      | 3               |
| RS485B       | -                  | -                  | -                      | ④               |
| Connector    | 4...20mA<br>2-wire | 1...5VDC<br>3-wire | 0.5...4.5VDC<br>3-wire | RS485<br>4-wire |
| M12x1(4-pin) | 2-wire             | 3-wire             | 3-wire                 | 4-wire          |
| +Vcc         | 1                  | 1                  | 1                      | 1               |
| OUT          | 3                  | 4                  | 4                      | -               |
| GND          | -                  | 3                  | 3                      | 3               |
| RS485A       | -                  | -                  | -                      | 2               |
| RS485B       | -                  | -                  | -                      | 4               |

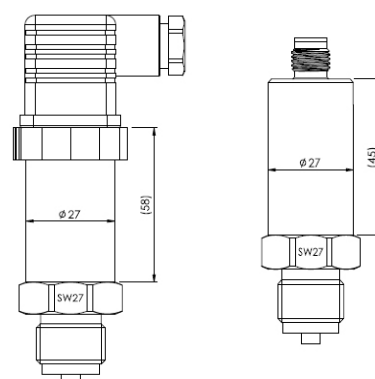


## 尺寸圖

單位：mm

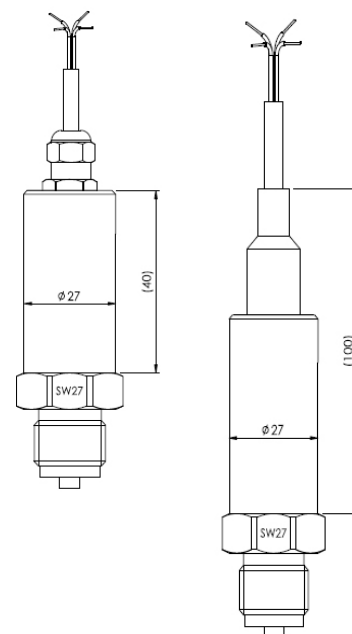
Hirschmann DIN43650

M12 航插



直接出線(IP66)

直接出線(IP68)



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FW

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## 型號選擇

| 型號                         |       |                                |      |              |                                              |             |
|----------------------------|-------|--------------------------------|------|--------------|----------------------------------------------|-------------|
| PM20S                      | 範圍    |                                |      |              |                                              |             |
|                            | N001  | -1...0bar                      | 0040 | 0...4bar     | 1000                                         | 0...100bar  |
|                            | 0001  | 0...0.1bar                     | 0060 | 0...6bar     | 1600                                         | 0...160bar  |
|                            | 0003  | 0...0.3bar                     | 0100 | 0...10bar    | 2500                                         | 0...250bar  |
|                            | 0006  | 0...0.6bar                     | 0160 | 0...16bar    | 4000                                         | 0...400bar  |
|                            | 0010  | 0...1bar                       | 0250 | 0...25bar    | *量程可依客戶需求訂製                                  |             |
|                            | 0016  | 0...1.6bar                     | 0400 | 0...40bar    | *其他單位可指定：kg/cm <sup>2</sup> ；psi；MPa；kPa...等 |             |
|                            | 0025  | 0...2.5bar                     | 0600 | 0...60bar    |                                              |             |
|                            | 型式    |                                |      |              |                                              |             |
|                            | G     | 表壓                             |      |              |                                              |             |
|                            | A     | 絕壓                             |      |              |                                              |             |
|                            | 輸出    |                                |      |              |                                              |             |
|                            | 42    | 4...20mA / 12...30VDC          |      |              |                                              |             |
|                            | 05    | DC 0...5V / 12...30VDC         |      |              |                                              |             |
|                            | 15    | DC 1...5V / 12...30VDC         |      |              |                                              |             |
|                            | 10    | DC 0...10V / 15...30VDC        |      |              |                                              |             |
|                            | 25    | DC 0...2.5V / 5VDC             |      |              |                                              |             |
|                            | 45    | DC 0.5...4.5V / 5VDC           |      |              |                                              |             |
|                            | RS485 | RS485 Modbus RTU / 12... 30VDC |      |              |                                              |             |
|                            | 精度    |                                |      |              |                                              |             |
|                            | 02    | ±0.25%F.S.                     |      |              |                                              |             |
|                            | 電氣接口  |                                |      |              |                                              |             |
|                            | D     | Hirschmann DIN43650            |      |              |                                              |             |
|                            | C66   | 直接出線,IP66・線長 1.5M (可指定線長)      |      |              |                                              |             |
|                            | C68   | 直接出線,IP68・線長 1.5M (可指定線長)      |      |              |                                              |             |
|                            | M     | M12x1 航插 4-pin                 |      |              |                                              |             |
|                            | 接續螺牙  |                                |      |              |                                              |             |
|                            | M2    | M20x1.5 male                   | N4   | 1/4"NPT male | R4                                           | 1/4"PT male |
|                            | G4    | G1/4" male                     | N2   | 1/2"NPT male | R2                                           | 1/2"PT male |
|                            | G2    | G1/2" male                     | F4   | G1/4" female | XX                                           | 其他          |
| PM20S                      | 0010  | G                              | 42   | 02           | D                                            | G4          |
| 範例：PM20S-0010-G-42-02-D-G4 |       |                                |      |              |                                              |             |

## 選購: 現場顯示器(限 4~20mA 輸出)

|      | DP-3                                                                                | DP-3-L                                                                              | DP-9 (一體型)                                                                            |
|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 型號   |  |  |  |
| 顯示   | 4 位數 LCD                                                                            | 4 位數 LED                                                                            | 4 位數 LED                                                                              |
| 接點開關 | X                                                                                   | Relay / NPN                                                                         | NPN                                                                                   |
| 電氣接口 | DIN43650                                                                            | DIN43650                                                                            | M12x1 航插 5-pin                                                                        |