

## SSM-P203

温压一体式变送器/Temperature-pressure integrated transmitter

- 压力量程/Range : -100kpa~0 & 0~10kpa~700bar
- 温度范围/Temperature : -15~200°C
- 高性能芯体/High performance core
- 多种输出信号可选/ Multiple output signals optional
- 长期稳定性好/Superior long term stability
- 抗干扰能力强/Strong antiinterference ability



### 技术规格/Technique parameter

#### 产品性能/Product Performance

##### 长期漂移/Long-Term Stability

|                |                                              |
|----------------|----------------------------------------------|
| 压力/Pressure    | ±0.2%FS/year (不累计/Not cumulative)            |
| 温度/Temperature | ±0.05%FS、0.1°C每年/year (取较大者/The bigger one ) |
| 精度/Accuracy    | ±0.25%FS、±0.5%FS(可选/Optional)                |

##### 温度影响/Temp.Effect

|                    |                                                   |
|--------------------|---------------------------------------------------|
| 压力/Pressure        | 1.5FS/100°C                                       |
| 温度/Temperature     | ≤ ±0.005%FS/°C 基准温度/Reference: 22°C               |
| 补偿温度/Comp.Temp.    | -20°C~80°C (压力/Pressure)                          |
| 工作温度/Working Temp. | -30°C~85°C                                        |
| 零点允差/Zero Error    | ±1%FS (压力/Pressure)                               |
| 满程允差/Span Error    | ±1%FS (压力/Pressure)                               |
| 响应时间/Response Time | ≤5ms (压力/Pressure) , t 0.9=10sec (温度/Temperature) |
| 疲劳寿命/Fatigue Life  | 设计超过1亿次/More than 100 million designs             |

#### 物理特征/Physical Characteristics

|                            |                                                |
|----------------------------|------------------------------------------------|
| 安装接口/Pressure Interface    | 参见订购指南/See Ordering Guide                      |
| 接液部件/Contact Parts         |                                                |
| 材质/Material                | SS304、SS316L包含安装接口/Contains process connection |
| 保护管直径/Protection tube diam | 6mm、8mm等/etc.                                  |
| 电气接口/Electrical Interface  | 参见订购指南/See Ordering Guide                      |
| 外壳防护/Shell Protection      | IP67                                           |
| 抗冲击/Shock                  | EC 68-2-32 procedure I                         |
| 抗振动/Vibration              | 40g, 20-2000Hz                                 |
| 重量/Weight                  | 约250克/About 250g                               |

#### 环境数据/Environmental Data

|                   |                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------|
| 认证/Authentication | CE、RoHS、Ex                                                                                              |
| 更多产品信息请访问         | For more product information, please visit : <a href="http://www.js-ssmtech.com">www.js-ssmtech.com</a> |

## 特有技术规格/Specific technical specifications

### 电压输出/Voltage Output

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| 输出 (3线) /Output (3-wire) | 最小0V至最大10V/Min 0V to max 10V                               |
| 供电电压/Power Supply        | 高于满量程输出4V, 最大30Vdc<br>Over full range output 4V, max 30Vdc |

### 电流输出/Current Output

|                          |                     |
|--------------------------|---------------------|
| 输出 (2线) /Output (2-wire) | 4-20mA (2线) /2-wire |
| 供电电压/Power Supply        | 10-30Vdc            |

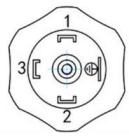
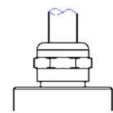
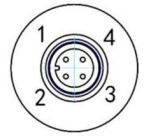
### 数字输出/Digital Output

|                          |                               |
|--------------------------|-------------------------------|
| 输出 (4线) /Output (4-wire) | Modbus-RTU/RS485 (4线) /4-wire |
| 供电电压/Power Supply        | 12-30Vdc                      |

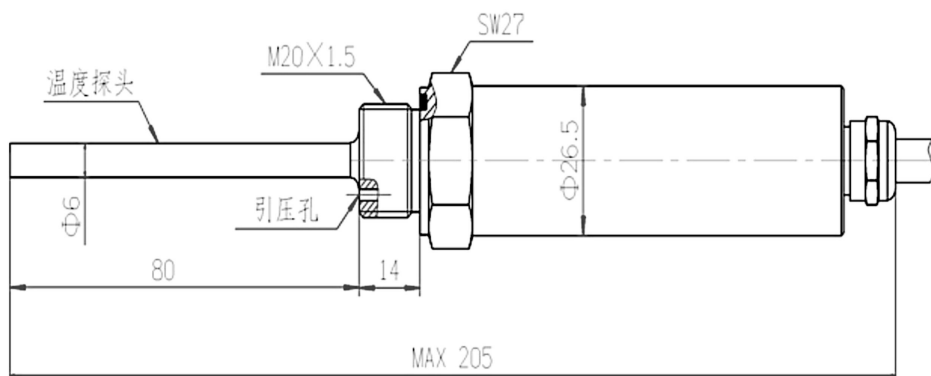
## 压力特性/Pressure feature

| 压力范围/Range<br>Kpa / bar | 耐压/Proof Pressure (×FS) | 破裂压/Burst Pressure (×FS) |
|-------------------------|-------------------------|--------------------------|
|                         | SSM-P203                | SSM-P203                 |
| 真空/Vacuum               | 3.0×FS                  | 5.0×FS                   |
| 5~100kpa                | 2.0×FS                  | 5.0×FS                   |
| 200kpa~100bar           | 2.0×FS                  | 3.0×FS                   |
| 200bar~700bar           | 1.5×FS                  | 2.0×FS                   |

## 接线定义/Wiring Definition

| 插件示意图<br>Plugin diagram                                                                      | 插件脚位<br>Foot position                                                               | 双输出 (电流)<br>Dual output (current) | 双输出 (电压)<br>Dual output (voltage) |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|
| DIN<br>   | 1                                                                                   | E+电源/Supply (P)                   | E+电源/Supply                       |
|                                                                                              | 2                                                                                   | S+输出/Output (P)                   | E-电源/Supply                       |
|                                                                                              | 3                                                                                   | E+电源/Supply (T)                   | S+输出/Output (P)                   |
|                                                                                              |  | S+输出/Output (T)                   | S+输出/Output (T)                   |
| 直接出线<br>  |                                                                                     | E+电源/Supply (P)                   | E+电源/Supply                       |
|                                                                                              |                                                                                     | S+输出/Output (P)                   | S+输出/Output (T)                   |
|                                                                                              |                                                                                     | E+电源/Supply (T)                   | S+输出/Output (P)                   |
|                                                                                              |                                                                                     | S+输出/Output (T)                   | E-电源/Supply                       |
| M12*1<br> | 1                                                                                   | E+电源/Supply (P)                   | E+电源/Supply                       |
|                                                                                              | 2                                                                                   | S+输出/Output (T)                   | S+输出/Output (T)                   |
|                                                                                              | 3                                                                                   | E+电源/Supply (T)                   | S+输出/Output (P)                   |
|                                                                                              | 4                                                                                   | S+输出/Output (P)                   | E-电源/Supply                       |

## 外形尺寸/Dimensions



## 温压一体式变送器 (SSM-P203)

型号表示: SSM-P203-①②③④⑤⑥-⑦/⑧-⑨

| 系列号<br>Series | ①压力类型<br>Pressure Type | ②压力范围<br>Range      | ③安装接口<br>Process connection                | ④输出信号<br>Output       | ⑤电气接口<br>Electrical connection | ⑥温度选项<br>Temp. Options           | ⑦探杆直径<br>Probe diameter | ⑧探杆长度<br>Probe length | ⑨精度<br>Accuracy     | 参数描述<br>Parameter description                                                                                                                                                                                                                                                                                                                                                                        |
|---------------|------------------------|---------------------|--------------------------------------------|-----------------------|--------------------------------|----------------------------------|-------------------------|-----------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SSM-P203      | A                      | 客户指定<br>K<br>B<br>M | 2G<br>4G<br>2N<br>4N<br>14M<br>20M<br>XX * | 4A<br>10V<br>5V<br>5C | 6P<br>xE                       | 01C<br>02C<br>03C<br>04C<br>XX * | 6<br>XX *               | 50<br>XX *            | ±0.5%FS<br>±0.25%FS | 表压/Gauge pressure<br>绝压/Absolute pressure<br>压力数值/Pressure value<br>KPa<br>Bar<br>MPa<br>G1/4<br>G1/2<br>1/4NPT<br>1/2NPT<br>M14×1.5<br>M20×1.5<br>其他规格/Other *<br>4-20mA两线制/2-wire<br>0-10V三线制/3-wire<br>0-5V三线制/3-wire<br>Modbus-RTU/RS485<br>六芯航空插件/6pin<br>直接引线X米/Direct lead x meter<br>0~100℃<br>0~200℃<br>-15~100℃<br>-15~200℃<br>其他规格/Other *<br>6mm<br>其他规格/Other *<br>50mm<br>其他规格/Other * |

## 注意事项/Attention:

1、直接引线标配1米电缆线

Direct lead with 1 m cable

2、6PIN标配2米电缆线

6PIN Standardized 2m Cable Line

3、原则上,温度输出信号与压力输出信号一致

Temperature and pressure signals are the same, in principle

4、带“\*”号请联系技术人员

With "\*", please contact the technician

更多产品信息请访问

For more product information, please visit

www.ssmtech.com