



## High temperature Pressure Transducer

### Performance

|                         |                   |
|-------------------------|-------------------|
| Pressure range(FS)      | 100~1000 bar      |
| Accuracy(BFSL)          | ±0.5%             |
| Error                   | ±1.0% FS TEB      |
| Stability(typical)      | ±0.25% FS/year    |
| Repeatability           | ±0.1% FS          |
| Load resistance         | >10Kohm           |
| Bridge resistance(±10%) | 350ohm or 1000ohm |
| Standard calibration    | 80%FS             |
| Temperature sensor      | PT131B            |

### Environmental

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Signal conditioner operate temperature | -25 to 85°C                       |
| Pressure sensor operate temperature:   |                                   |
| -H                                     | -40 to 300°C                      |
| -HS                                    | -40 to 400°C                      |
| Storage temperature                    | -40 to 125°C                      |
| Proof pressure                         | 1.5 * FS                          |
| Wetted parts                           | 17-4PH SS                         |
| Output                                 | Packard connector                 |
| Vibration limit                        | 20 g@10~2000Hz                    |
| Shock limit                            | IEC 60068-2-27, 50 g, 11 ms pulse |
| Pressure cycles                        | 100 million FS cycles             |
| Sealing                                | IP66 (IEC60529)                   |
| EMC Compliance:                        |                                   |
| EN 50081-2                             |                                   |
| EN 50082-2(10V/M, 26~1000MHz)          |                                   |
| EN 61326                               |                                   |

### Features

- Gauge Pressures
- Hardline or Softline isolation
- 1.0 % Total Error Band
- Temperature output optional
- Different signal output

### Application

- Process Automation & Control
- Test and Measurement
- Energy Management
- Heavy industry

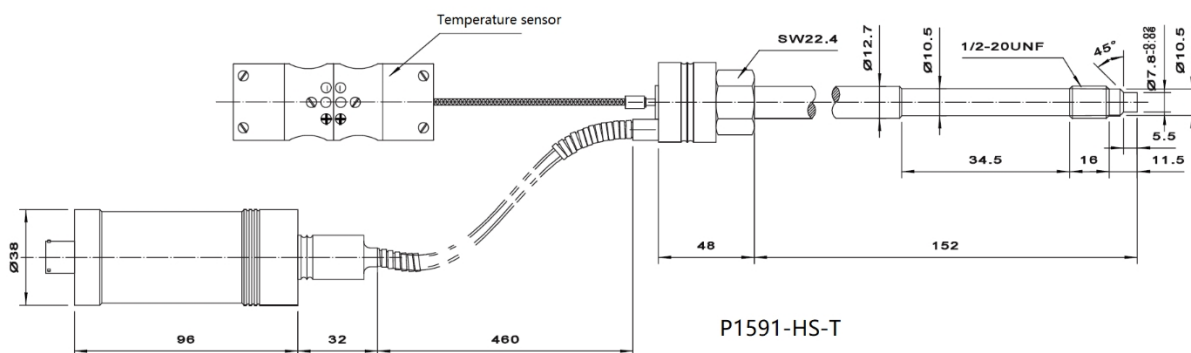
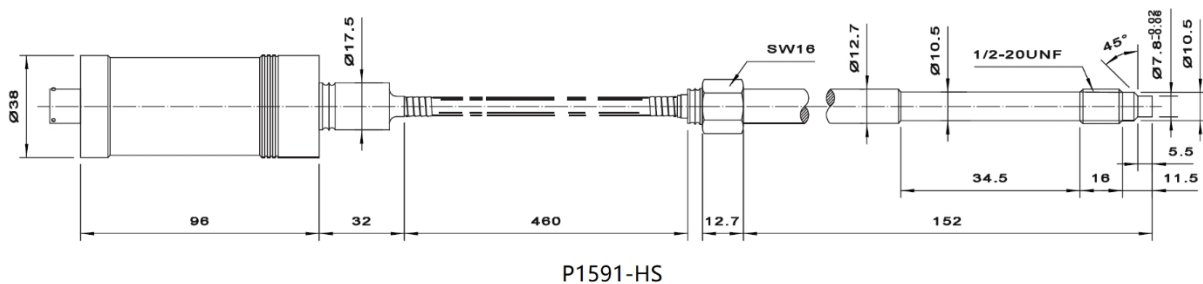
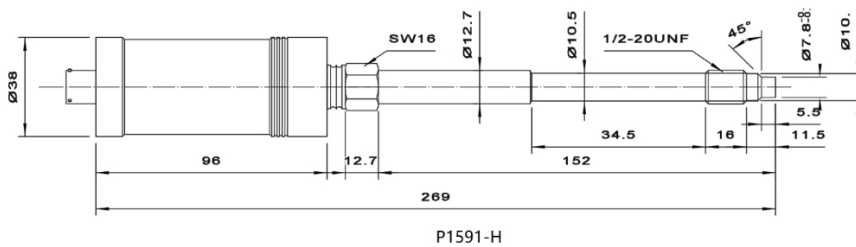
### Electrical

| Output type       | C<br>(4~20mA) | F<br>(0~10VDC) | G<br>(0~5VDC) |
|-------------------|---------------|----------------|---------------|
| Supply Voltage    | 24 VDC        | 24 VDC         | 24 VDC        |
| Output            | 4 ~ 20 mA     | 0 ~ 10 VDC     | 0 ~ 5 VDC     |
| Supply Current    | < 30 mA       | < 12 mA        | < 3 mA        |
| Zero Output       | 4 mA          | 0 VDC          | 0 VDC         |
| Full Scale Output | 20 mA         | 10 VDC         | 5 VDC         |

### Ordering information:

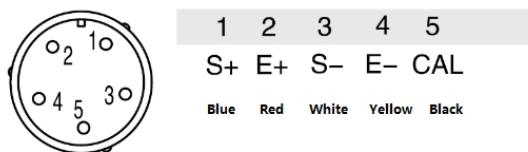
| P1591 | C                             | - | 100                                                                                | - | J                                      | - | H3S18                                                                                                                                           | - | TP                                                                                               |
|-------|-------------------------------|---|------------------------------------------------------------------------------------|---|----------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------|
| Model | Output type                   | - | Range                                                                              | - | Port type:                             | - | Probe/Softline length                                                                                                                           | - | Temperature sensor                                                                               |
| P1591 | C=4~20mA<br>F=0~10V<br>G=0~5V | - | 100=100bar<br>200=200bar<br>350=350bar<br>500=500bar<br>700=700bar<br>1000=1000bar | - | J=1/2"-20UNF<br>K=M14x1.5<br>L=M22x1.5 | - | H3=Probe 3 inch<br>H6=Probe 6 inch<br>H9=Probe 9 inch<br>H12=Probe 12 inch<br>S18=Softline 18 inch<br>S30=Softline 30 inch<br>Blank=No Softline | - | TP=PT100<br>TE=E thermocouple<br>TK=K thermocouple<br>TJ=J thermocouple<br>Blank=W/O temperature |

## Dimension:



## Electrical connection:

### Connection for Voltage signal:



### Connection for Current signal:



## Typical mounting hole:

