# P601S Series Diaphragm Sealed Pressure Transmitter

## Feature

- Stainless steel flush diaphragm
- Measuring range from 0 ~ 0.1 to 0 ~ 10 MPa
- Shock and vibration resistant
- 200 % overpressure protection
- Excellent long term stability
- HART Communication(Option)
- 의장등록 제30-0366814호

## Applications

- The transmitters can be used for pressure measurement in sticky, high viscous
- Foods and milk process
- Level measurement and storage tank installation
- Concentration plant
- Process and chemical engineering
- Pulp and paper stock measurement
- Chemical and petrochemical industry
- Equipment and machinery for plant, ink, resin and dough process

### Input

| | | |
|---|---|---|
| Technology | Piezoresistive silicon pressure sensor | |
| Pressure range | 0 ~ 0.01 to 10 MPa Relative pressure | |
| | 0 ~ 0.1 to 3.5 MPa Absolute pressure | |
| Pressure reference | Gauge, including vacuum and compound and absolute | |
| Overload pressure | 1.5 times of F.S. | |

### Output

| | | |
|---|---|---|
| | Current output | |
| Electrical connection type | 2-wire technique | |
| Full scale output signal | 20 mA | ± 0.03 % |
| Zero measured output | 4 mA | ± 0.01 % |

### Electrical Specifications

| | |
|---|---|
| Power supply | 12 ~ 36 V DC (It is not free voltage) |
| Load resistance max@24 V | 500 Ω at 24 V |
| Power ripple | ≤ 500 mV P-P |
| Insulation resistor | ≥ 20 MΩ, 25 V DC |

### Performance Specifications

| | |
|---|---|
| Accuracy | ≤ ± 0.5 % F.S. |
| Non-linearity | ± 0.30 % F.S. typical |
| Repeatability | ± 0.10 % F.S. typical |
| Pressure hysteresis | ± 0.10 % F.S. typical |
| Long term stability | ± 0.2 % F.S. over 1 year |
| Response time(10 ~ 90 %) | ≤ 20 ms |
| Refernce temperature | 25 ℃ |
| Working temperature range(Process) | -40 ~ 120 ℃ typical |
| Compensated temperature range(Process) | -10 ~ 70 ℃ (≤ 70 kPa ; 0 ~ 60 ℃) |
| Ambient temperature range | -20 ~ 60 ℃ |
| Thermal sensitivity shift | ≤ ± 0.75 % F.S. in reference to 35 ℃ typical |
| Thermal zero shift | ≤ ± 0.75 % F.S. in reference to 35 ℃ typical |


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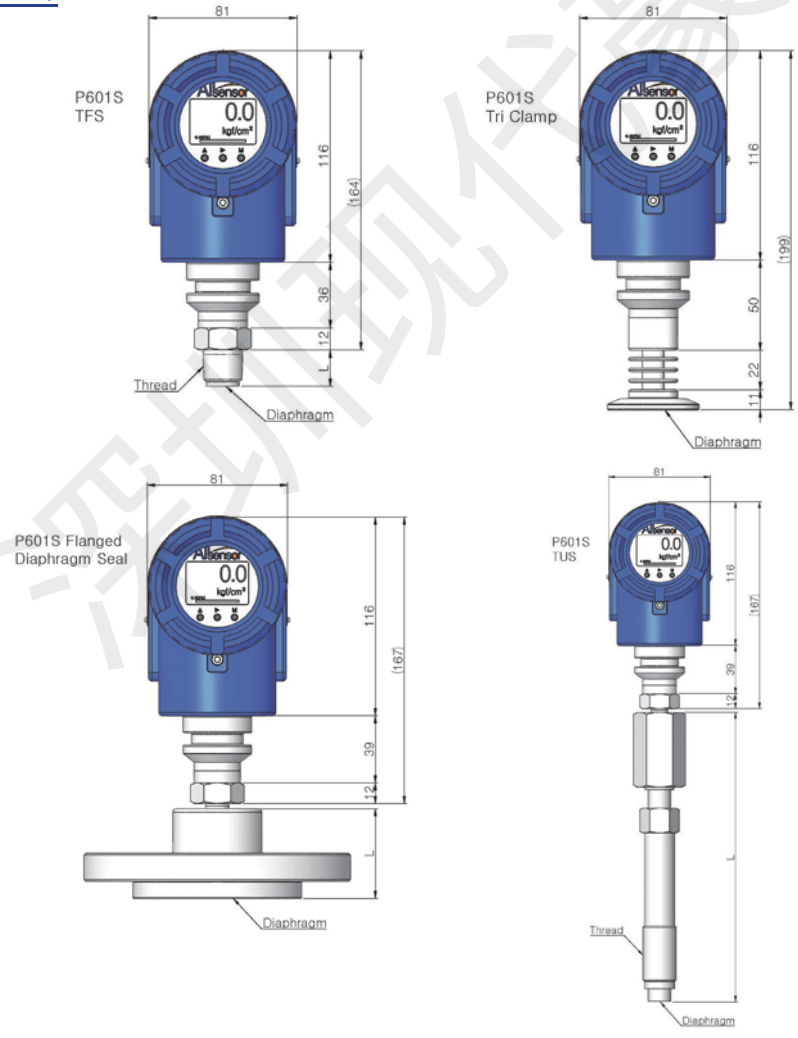
| Physical Specifications | |
|---|---|
| Process connection | Flush Diaphragm Seal |
| | Other connections available on request |
| Electrical cable entry | G(PF) 1/2" female |
| Process media | Compatible with STS316L, Hastelloy C, Nickel or Tantalum |
| Materials | Wetted parts : STS316L, Hastelloy C, Nickel, Tantalum or Teflon Coating |
| | Housing & rear cover : Aluminum Die-casting |
| | Front cover : Aluminum Die-casting & Tempered glass adhesion assembly |
| Enclosure rating | IP67 |
| Explosion protection | Ex d IIC T6 (KGS / 방호장치 의무안전인증 고시 / 고용노동부고시 제2013-54호) |
| Vibration | 0.1 g (1/M/s/s) Maximum |
| Weight | Approx. 1.5 kg + extra (depending on the diaphragm weight) |

## Dimension(mm)

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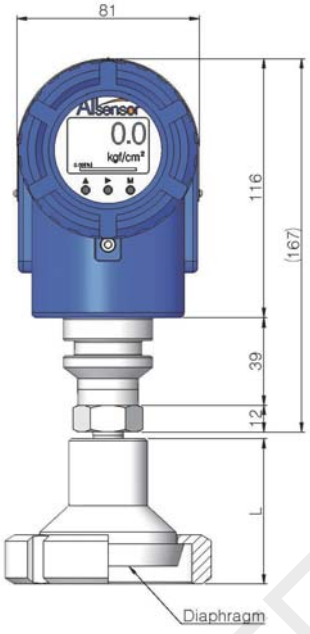
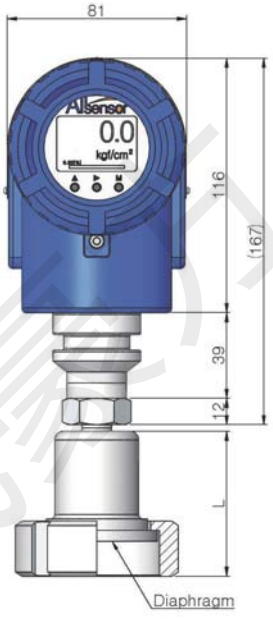
## Dimension(mm)

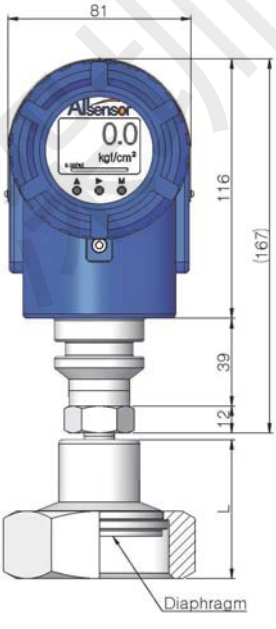
P601S
DIN11851



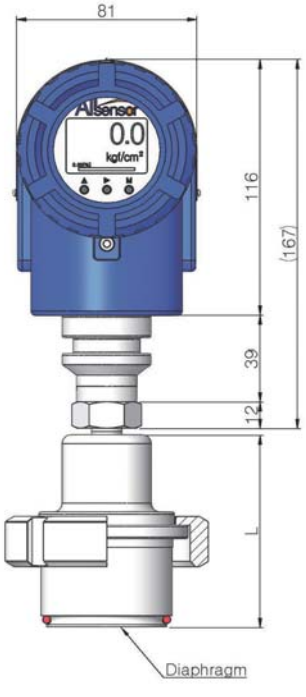

P601S
SMS




P601S
IDF




P601S
Tank Spud




Process Instruments & Diaphragm Seals
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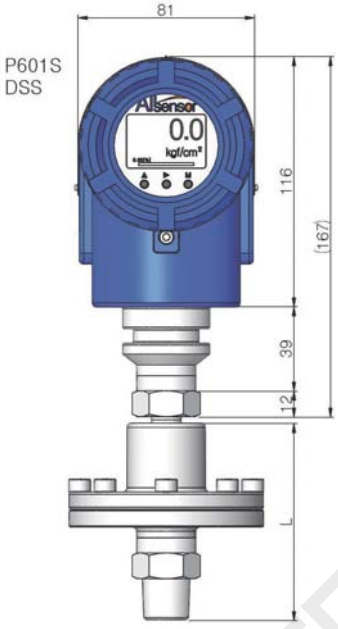
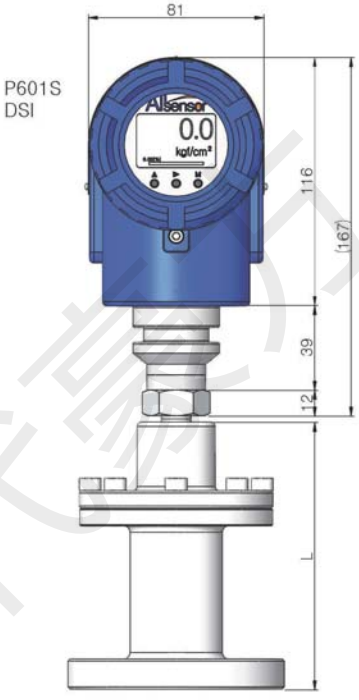
## Dimension(mm)




## Ordering Information

| P | 6 | 0 | 1 | S | G | H | | 0 | 0 | 1 | 0 | | M | | P | | U | | | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

***Model Name***
P601S :
Diaphragm Sealed
Pressure Transmitter

***Pressure Type***
A : Absolute
G : Gauge

***Output***
H : 2 Wire 4~20 mA

***Pressure Range***
Refer to pressure range code

***Pressure Unit***
M : MPa
B : bar
P : psi
K : kgf/cm²
H : mmH2O
G : mmHg
T : torr

***Process Connection***
A : PT 1/2"
B : PT 3/4"
C : PT 1"
D : DIN 11851
E : Extended
F : Flange
G : DSS
H : DSI
I : IDF
S : SMS
T : Tri-Clamp
U : Tank Spud

***Electrical Cable Entry***
T : G(PF) 1/2" Female

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