

**Indicator** Digital Pressure and Temperature Test Gauges



**HD010 - Digital Pressure Gauge**

- 4 Digit LCD Display
- Dial size 80 mm (3") and 100 mm (4")
- Accuracy Class 0.2 and Class 0.4 of F.S.
- Selectable unit range Bar, Psi, kPa and MPa
- Design pressure range -1..+24 to 0..1000 bar
- Low range -600..+600, 0..50 up to 1000 mBar
- Long life, Battery operated power 2 x AAA Cell
- Stainless steel case with SS316 wetted part
- Designed over pressure resist up to 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Optional Auto Power-Off, Password function

Accuracy  
Class 0.2..0.4

Changeable  
5 Unit Ranges



**HD080 - Precision Digital Gauge**

- Single line wide digital crystal screen
- Dial size 90 mm or 3 1/2"
- Accuracy Class 0.02, 0.05 and 0.1
- Selectable 9 unit depend on pressure range
- Design pressure range -0.98..0 to 0..600 bar
- Long life\*2 years usage 8.4V Lithium battery
- Aluminum case, Stainless steel wetted parts
- RS-232 communication serial port, \*Cable+software
- Designed over pressure resist up to 110%
- Working temperature -10..+50°C
- Design relative humidity <95%
- Calibration report (In-house) included

Accuracy  
Class 0.02..0.1

Changeable  
9 Unit Ranges

**HD022 - Precision Digital Dual Gauge**



- Dial size 2 1/2" (62 mm) and 4" (100 mm)
- Large 5 Digits big LCD Display, back light
- Accuracy Class 0.2 and 0.5 of Full Scale
- Selectable 10 unit pressure ranges
- Pressure range -1..0..0..1 up to 1000 bar
- Maximum calibrating pressure Auto recording
- Integrated Auto Power-Off, Setable 1-15 mins
- Low power consumption, battery 1 x 9 VDC
- Stainless steel case with SS316 wetted part
- Parameter correction, Zero and Error correction
- Designed over pressure resist up to 200%
- Working temperature -20..+70°C
- Design relative humidity <80%
- Calibration report (In-house) included

Accuracy  
Class 0.05

Changeable  
10 Unit Ranges



**HD040 - Precision Digital Gauge**

- 6 Digits big LCD Display
- Accuracy Class 0.025 and Class 0.05 of F.S.
- Up to 9 Selectable unit ranges
- Design pressure range 0..2500 bar
- Low range -0.025..+0.025 up to 1 Bar
- Rechargeable long life, Battery operated 7.4Vdc
- Temperature compensating function
- Large LCD with white backlight, dual unit reading
- Zero point, Full Scale calibration function unit
- RS-232 communication serial port, \*Cable+software
- Designed over pressure resist up to 110%
- Working temperature -10..+50°C
- Design relative humidity <95%
- Calibration report (In-house) included
- Integrated internal data storing function and many more

Accuracy  
Class 0.02..0.1

Changeable  
9 Unit Ranges

**HD050 - Intelligent Digital Dual Gauge**



- 6 Digits big LCD Display
- Dimension case W x H 95 mm x 50 mm
- Accuracy Class 0.02, 0.05 and 0.1 of F.S.
- Selectable 9 units depend on pressure
- Design pressure range 0..2500 bar
- Low range -0.025..+0.025 up to 1 Bar
- Rechargeable long life, Battery operated 8.4Vdc
- Temperature compensating function
- RS232 computer communication port
- Working temperature -10..+50°C
- Design relative humidity <95%
- Integrated Max and Min values chip function
- Zero point, Full Scale calibration function unit
- Integrated internal data storing and many more..

- Multi function measurement
  - General pressure gauge
  - Differential pressure transmitter
  - Pressure transmitter
  - Precision pressure gauge/Test gauge
  - Sphygmomanometer
- Pressure units : kPa, mmHg, mmH2O, Bar, mBar, Psi, kg/cm2, MPa, Pa
- Electrical signal
  - Current : 0..25 mA > KL  $\pm 0.02\%$  RD + 0.005% F.S.
  - Voltage : 0..25 V > KL  $\pm 0.02\%$  RD + 0.005% F.S.
  - DC Output : DC24V ( $\leq 30$  mA) KL  $\pm 1\%$  F.S.

**Multi function ports**



Accuracy  
Class 0.02..0.1

Changeable  
9 Unit Ranges

High Pressure  
up to 2500 bar

**Accessories** Accessories and support



1. 90° mounting valve
2. Swivel ring adaptor (Connector)
3. Gasket (Sealing)
4. Connection adaptors (All sizing)
5. Low pressure hose
6. High pressure hose
7. Carrying case
8. Protecting rubber



Carrying case

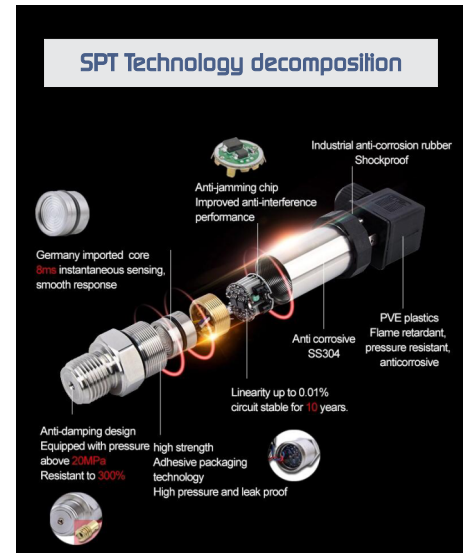


Adaptors Set



**SPT100 Series - General Industrial Pressure Transmitter**

- Diffusion Silicone core technology
- LCD/LED digital display \*Optional
- Accuracy Class 0.25% or 0.5% of Full Scale
- High performance, precision & stability
- Stainless steel 316 wetted part
- Convenient debugging zero range setting
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Operating temperature  $-40^{\circ}+150^{\circ}\text{C}$
- Power supply 12~30 VDC
- Output signal 4-20 mA, 0-5 VDC or 0-10 VDC



**SPT250 - Digital Pressure Transmitter**



- Diffusion Silicone core technology
- LCD Large digital display
- Multi measurement unit ranges (LED)
- Accuracy Class 0.25% or 0.5% of Full Scale
- High performance, precision & stability
- Stainless steel 316 wetted part
- Convenient debugging zero range setting
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Operating temperature  $-40^{\circ}+150^{\circ}\text{C}$
- Power supply 12~30 VDC
- Output signal 4-20 mA or RS485 protocol
- Option Differential pressure/Sanitary mount

**SPT301/302 - Digital Pressure Transmitter**

- LCD (301) / LED (302) Large digital display
- Diffusion Silicone core technology
- Explosive Atmosphere protection
- Multi measurement unit ranges (LED)
- Accuracy Class 0.2..0.4% of Full Scale
- High performance, precision & stability
- Stainless steel 316 wetted part
- Convenient debugging zero range setting
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Operating temperature  $-40^{\circ}+150^{\circ}\text{C}$
- Long term stability typical  $\pm 0.2\%$  F.S./Year
- Power supply/Output signal : 12~30 VDC/4-20 mA
- Available with Differential pressure or Sanitary mount



**Mounting selection**



## Switches

### Digital Pressure Switch



#### DPS300 - Digital Pressure Switches

- Accuracy Class 0.5 of F.S.
- Dial 80 mm
- 2 x Different relays output (NO/NC)
- Setable range 5%..95% of F.S.
- Pressure range -1..0, -1..+24 to 0..1000 bar
- Designed over pressure resist 150%
- Output 4..20 mA or \*RS485
- Selectable triple unit ranges
- ON/OFF and Zero reset button
- Stainless steel 316 wetted part
- Power Supply 24 VDC, 220 VAC or 380 VAC
- Alarm Load Capacity 3A - 380/220 VAC or 24 VDC
- Direct or Panel mounting design
- Anti-electromagnetic interference
- Integrated password function



#### DPPS300 - Digital Differential Pressure Switches

- Accuracy Class 0.5 of F.S.
- Dial 80 mm
- 2 x Different relays output (NO/NC)
- Setable range 5%..95% of F.S.
- Pressure range 0.. 0.35 to 0..25 bar
- Designed over pressure resist 150%
- Output 4..20 mA or \*RS485
- Selectable triple unit ranges
- ON/OFF and Zero reset button
- Stainless steel 316 wetted part
- Power Supply 24 VDC, 220 VAC or 380 VAC
- Alarm Load Capacity 3A - 380/220 VAC or 24 VDC
- Direct or Panel mounting design
- Anti-electromagnetic interference
- Integrated password function

## Temperature

### Digital Thermometer and Transmitter

Accuracy  
Class 0.25-0.5

LCD Display



#### TD100 - Digital Thermometer

- Exchangeable 5 Unit range °C, °F, °K, °Ra, °Re
- LCD backlight for dark environment reading
- Large high resolution 5 digit LCD Display
- Stainless steel case, Ø 100mm dial
- Accuracy Class 0.25 and 0.5 of F.S.
- Internal measuring record function
- Internal Auto-Off setable function
- Effective sampling rate 1 time/s
- Digital battery power indicator
- Micro-power Long life 3.6VDC battery operated
- Measuring temperature range -50° to +500°C
- Operating temperature range -20° to +70°C
- Maximum working pressure 100 bar
- Sensor length up to 1 meter long
- Connection 1/2"NPT or BSP, fixed or sliding connection
- Design stability ≤0.1% / year
- SS 316 wetted part, other material available\*
- Optional Thermowell, please refer to Thermowell section



Accuracy  
Class 0.25-0.5

LCD - LED



#### TPT100 - Digital Temperature Transmitter

- Display TPT101 (LED) and TPT102 (LCD)
- Aluminium alloy case, Ø 65 mm casing dial
- Accuracy Class 0.5 of F.S.
- Output 4..20 mA or \*RS485
- Power Supply 12-30 VDC
- Relative humidity 0-90%
- Fast response and design for heavy duty process
- Measuring temperature range -50° to +1000°C
- Operating temperature range -30° to +80°C
- Maximum working pressure 100 bar
- Sensor length up to 1 meter long
- Connection 1/2"NPT or BSP, fixed or sliding connection
- Design stability ≤0.1% / year
- SS 316 wetted part, other material available\*
- Internal cold junction compensation circuit
- Nonlinearity correcting onboard circuit

