

Main Specifications

▼ **Pressure connection**
1/4" NPT
Other specifications are available upon request

▼ **Pressure type**
Differential pressure (DP)
High pressure (HP)
Gauge pressure (GP)
Absolute pressure (AP)

▼ **Pressure range**
Please refer to pressure range table

▼ **Applicable media**
Liquid and gas that compatible with pressure connection

▼ **Operating temperature**
-40~85°C (Standard)
-30~80°C (with LCD display)
-40~104°C (filling silicon oil)
-18~71°C (filling inert oil)

▼ **Storage temperature**
-45~90°C

▼ **Explosion-proof level (Option)**
Exia II CT6
Exd II BT4

▼ **Accessories (Option)**
T-shaped joint with M20*1.5 male thread
(See dimensions at page 2.)
Installation bracket:
Tube bent bracket
Plate bent bracket
Tube flat bracket
Board-mounted bracket

Other Specifications

▼ **Screen display**
5-digit LCD display with backlight

▼ **Display unit**
kPa, mA, %, °C, mmH₂O, MPa, Pa, mbar, atm, psi, Torr

▼ **Analog signal output**
4-20mA (2-wire)

▼ **Digital signal output (Option)**
HART communication

▼ **Max. output current**
<22mA

▼ **Power supply voltage**
24VDC
≥18.5V (for HART comm.)

▼ **Operating range**
18.5~45V

▼ **Loop load**
≥250Ω for HART comm.

▼ **Stability**
<1 year

▼ **Accuracy**
±0.1% / ±0.2% / ±0.5% / ±1%

▼ **Transmission distance**
About 1,500 m
(Connecting wire diameter >0.6mm)

▼ **Vibration**
50Hz (For more details see *1)

▼ **Damping value**
0~32 seconds

▼ **Temperature effect**
Please refer to temperature effect table

▼ **Weight**
About 4kg

Smart Differential Pressure Transmitter

Model: SDPT-3351

Introduction

SDPT-3351 smart differential pressure transmitter uses 5-digit LCD screen display, HART communication available, great stability and anti-interference with isolate circuit, highest accuracy can up to ±0.1%, and it also has alarm, temperature indicator, temperature compensation, and data backup and recovery function.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

*1: 50Hz, double amplitude: 0.2mm, which lasted 2 hours vibration limits and under the measurement range vibration <0.075%

*Mounting position effect: Transmitter mounted position tilted 10° , the error value should be less than one-third of pressure range limit or 200Pa at the top.



Features

- OEM service
- Analog / digital signal output:
4-20mA / HART communication (Option)
- Adjustable zero / span and range setting
- Display unit: Up to 11 units
- Highest accuracy can up to ±0.1%
- Alarm function:
Activate when output signal is higher than 20.8mA or less than 3.9mA
- Recovery function:
When data is corrupted, user can press the three buttons to recover the corrupted data.
- Temperature indicator:
Display ambient temperature
- Temperature compensation:
Collecting temperature data into the transmitter for temperature compensation.
- Protection:
Circuit protection design, static shock, surge current, and strong overload protection

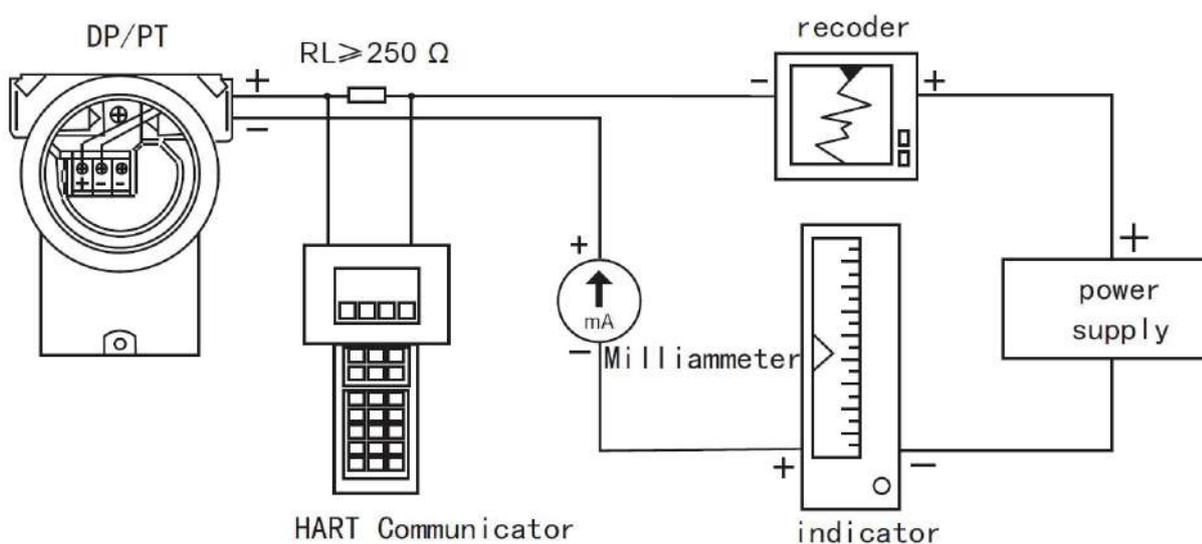
Pressure range table

Code	Pressure range	Differential pressure (DP)	High pressure (HP)	Gauge pressure (GP)	Absolute pressure (AP)
3E	1~6 kPa	√	√	√	
4E	6~40 kPa	√	√	√	√
5E	40~200 kPa	√	√	√	√
6E	0.16~1 MPa	√	√	√	√
7E	0.4~2.5 MPa	√	√	√	√
8E	1.6~8 MPa			√	√
9E	4~20 MPa			√	
0E	6~40 MPa			√	

Temperature effect table

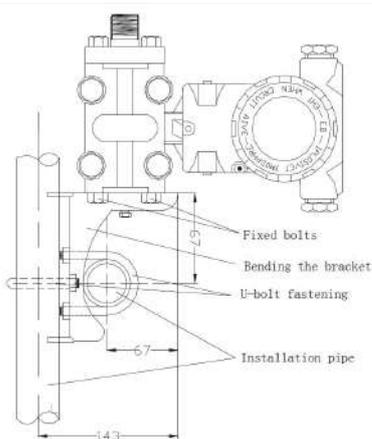
Accuracy	Temperature coefficient/%F.S./10°C
0.1	±0.2
0.2	
0.5	±0.5
1.0	

Wiring Diagram

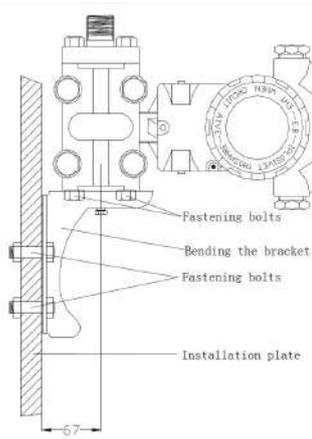


Transmitter Field Wiring

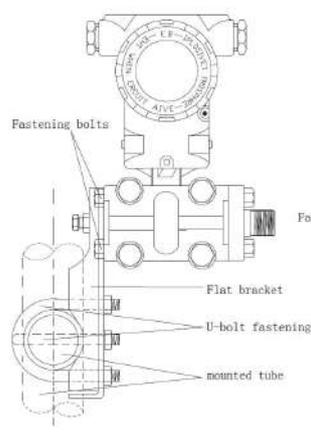
Installation rack



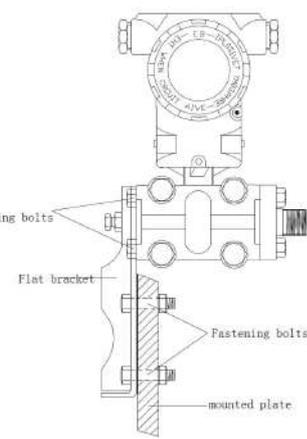
Picture 1 Tube bent bracket



Picture 2 Plate bent bracket



Picture 3 Tube flat bracket



Picture 4 Board-mounted bracket

How to order

SDPT-3351		Smart Differential Pressure Transmitter			
Code		Pressure connection			
2N		1/4" NPT			
O		Others			
Code		Pressure type			
DP		Differential pressure			
HP		High pressure			
GP		Gauge pressure			
AP		Absolute pressure			
Code		Pressure range			
3E		Please refer to pressure range table to select corresponding code			
Code		Accuracy			
01		±0.1%			
02		±0.2%			
05		±0.5%			
10		±1%			
Code		Other requests			
/A		Third party notarized documents			
/B		Inspection report			
/C		Tag			
/D		HART communication			
/E		Linear output			
/F		Square root output			
/G		Explosion-proof level: Exia II CT6			
/H		Flameproof level: Exd II BT4			
/I		T-shaped joint with M20*1.5 male thread			
/J		Installation bracket: Tube bent bracket			
/K		Installation bracket: Plate bent bracket			
/L		Installation bracket: Tube flat bracket			
/M		Installation bracket: Board-mounted bracket			
SDPT-3351	2N	DP	3E	01	Order example: SDPT-3351-2N-DP-3E-01+/D