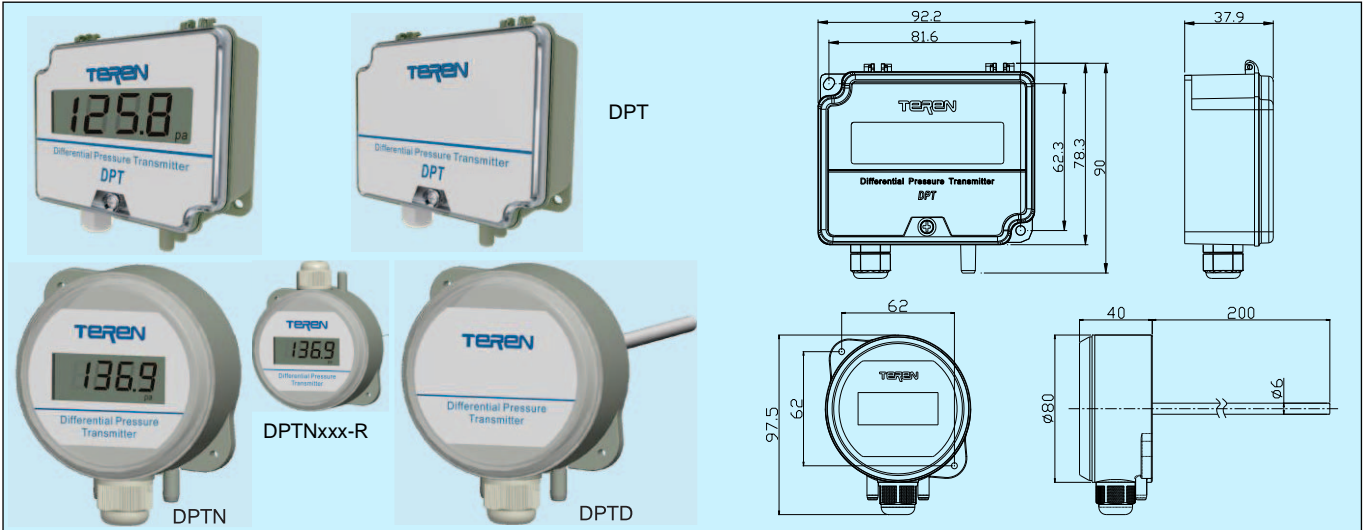


# DPT/DPT-F/DPTN/DPTD Differential Pressure Transmitter



## Applications & Features

- Apply high accuracy MEMS sensor and digital technologies, can measure positive, negative or differential pressure. DPT and DPTN is suitable for surface mount, DPT-F is suitable for flush mount, DPTD with static pressure probe is suitable for duct mount
- It can measure system pressure of fan, blower, filter, furnace draft and orifice plate and can apply to various clean room, biological safety cabinet, clean bench, ducts collection, medical or pharmaceutical machine, etc.
- Multiple ranges, engineering units and outputs
- Good performance with accuracy of 1.0% and range as low as 25Pa
- Function keys: zero calibrate, unit select, response time set, etc.
- Field upgradable LCD display module and multiple ranges selectable. The LCD of DPTN/DPTD can have 180° reverse installation, meets different installation requirements and wiring methods

## Specifications

**Medium:** non-combustible, non-corrosive air, insensitive to moisture, dust, condensation and oil  
**Working Temp.:** -20~70°C  
**Medium Temp.:** 0~60°C  
**Temp. Compensation:** 0~50°C  
**Working Pressure:** overload 10xFS, burst 15xFS  
**Accuracy:** ±1.0%FS (±2.0%FS@25Pa range)  
**Long term stability:** ±0.5%FS/Year  
**Thermal effect:** <0.05%FS/°C (zero), <0.08%FS/°C (FS)  
**Response Time:** 0.5/1/2/5s, can be set by DIP switches  
**Process Connection:** 5mm ID tubing  
**Display:** DPTN/DPTD: 5 digits LCD, size 44x18mm, with unit indication

DPT: 4 digits LCD, size 65x18mm, with unit indication

**Output:** 0~10V, 4~20mA (2 wires), 0~5V, RS485 selectable

**Output Load:** ≤500Ω (current), ≥2kΩ (voltage)

**Power:** Voltage: 16~28VAC/ 16~35VDC

Current: 18.5~35VDC (R<sub>L</sub>=500Ω); 8.5~35VDC (R<sub>L</sub>=0Ω)

**Units:** 5 units, selected by DIP switches

**Zero set:** easy to reset by external key

**Materials:** ABS+PC(housing) & PC(Cover), fire retardant UL94V-0

**Protection:** DPT/DPT-F: IP54; DPTN/DPTD: IP65

**Weight:** DPT/DPTN: 165g; DPTD: 200g

**Approval:** CE

**Accessories:** LCD display module (model DPT-LCD or DPTN-LCD), including 1 LCD module and 1 panel film, and flush mount panel (model DPT-A), can be ordered separately

## Models

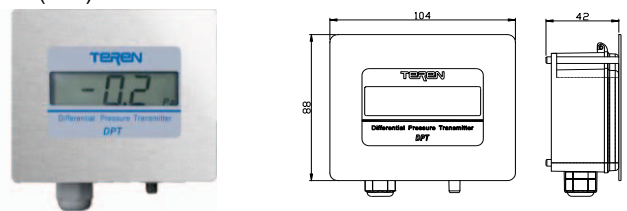
Model	DPT	DPTN	DPTD	DPT-F	Room DP transmitter	Room DP transmitter	Duct mount DP transmitter	Flush mount DP transmitter
<b>Range</b>		x			Range selection			
<b>Output</b>			1	2	0-10V	4-20mA (2 wires)	0-5V	RS485/Modbus
<b>Display</b>			0	1	N/A	LCD		

If select reverse installation for LCD of DPTN or DPTD, add suffix -R after model No.

## DPT-F Flush Mount DP Transmitter

It's the combination of DPT (with LCD) and flush mount panel (model DPT-A). The specifications are the same as DPT. And the model is DPT-Fxx1 (with LCD).

It's good for flush mount in various clean room or equipment. The 316 brushed stainless steel panel does not have any dust collection, easy and safe to clean. The size is W104xH88 xT1.5. The opening is W93xH79xD42(mm). The LCD size is 65x18(mm).



## Measuring Ranges

Code	Unit & Range & Display Resolution					
	Pa	Pa	kPa	in w.c.	mm w.c.	mbar
1	0-25/60/125	25.0	0.025	0.100	2.50	0.250
		60.0	0.060	0.250	6.00	0.600
		125.0	0.125	0.500	12.00	1.250
3	0-250/500/1000	250.0	0.250	1.000	25.00	2.500
		500.0	0.500	2.000	50.00	5.000
		1000	1.000	4.000	100.0	10.00
6	0-2500/5000/10000	2500	2.500	10.00	250.0	25.00
		5000	5.000	20.00	500.0	50.00
		10000	10.00	40.00	1000	100.0

1. Each model has 3 ranges which could be jumper selected.
2. Set the 5 engineering units by DIP switches and the related LCD indicator will be on.
3. For zero center models, add "Z" at the end of the model. For example, DPT1xxZ, means the range is -30-0-30/-62.5-0-62.5pa. 25Pa does not have this function. DPT3xxZ, means the range is -125-0-125/-250-0-250/-500-0-500pa. Code 6 does not have this function.
4. For DPT/DPT-F, if the measured value is -0.xxx, the LCD will display -.xxx.