

Applications & Features

- Apply high accuracy MEMS sensor and digital technologies, can measure positive, negative or differential pressure
- It can measure fan and blower pressures, filter resistance, air velocity, pressure drop across orifice plates, differential pressure of medical or pharmaceutical machine, etc.
- Multiple ranges, engineering units and outputs.
- Low cost design, accuracy up to 1.0%FS
- Function keys: zero calibrate, unit select, response time set, etc
- Field upgradable LCD display module

Specifications

Medium: on-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: up to ±1.0%FS, see accuracy table

Long term stability: ±0.5%FS /Year

Thermal effect: <0.05%FS/°C(zero), <0.08%FS/°C(FS)

Response Time: 0.5~30s, can set by keys

Process Connection: 5mm ID tubing

Display: 5 digits LCD, with unit indication, field upgradable

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

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

Power Supply: 15~28V AC/15~36VDC

Unit select: by keys

Zero set: easy to reset by external key

Measuring ranges & Accuracy

Code	Unit & Range & Display resolution						Accuracy(%FS)
	Pa	Pa	kPa	in w.c.	mm w.c.	mbar	DPT
1	0-60/125	60.00	0.060	0.250	6.000	0.600	1%
		125.0	0.125	0.500	12.00	1.250	1%
3	0-250/500/1000	250.0	0.250	1.000	25.00	2.500	1%
		500.0	0.500	2.000	50.00	5.000	1%
		1000	1.000	4.000	100.0	10.00	1%
6	0-2000	2000	2.000	8.000	200.0	20.00	1%
7	0-5000	5000	5.000	20.00	500.0	50.00	1%
8	0-10000	10000	10.00	40.00	1000	100.0	1%

Note: 1. Code 1 and 3 have multiple ranges which could be jumper selected.

2. Set the 5 engineering units by button keys and the related LCD indicator will be on.

3. For zero center models, add "Z" at the end of the model. For example, DPT1**Z, means the range is-30-0-30/-62.5-0-62.5pa.

Materials: ABS(housing) &PC(cover)

Protection: IP54

Approval: CE

Models

Model	DPT			DP transmitter
Range		See table		Range selection
Output			1	0-10V
			2	4-20mA(2 wires)
			8	RS485/Modbus
Display			0	N/A
			1	LCD

Accessory:

1. Flush mount panel

Model: DPT-A

316 SS panel, for flush mount, No duct and easy to clean.

Dimensions:

103(W)×91(H)×1.2(D)mm



2. Field upgradeable LCD Display

Model: DPT-LCD-1/DPT-LCD-5

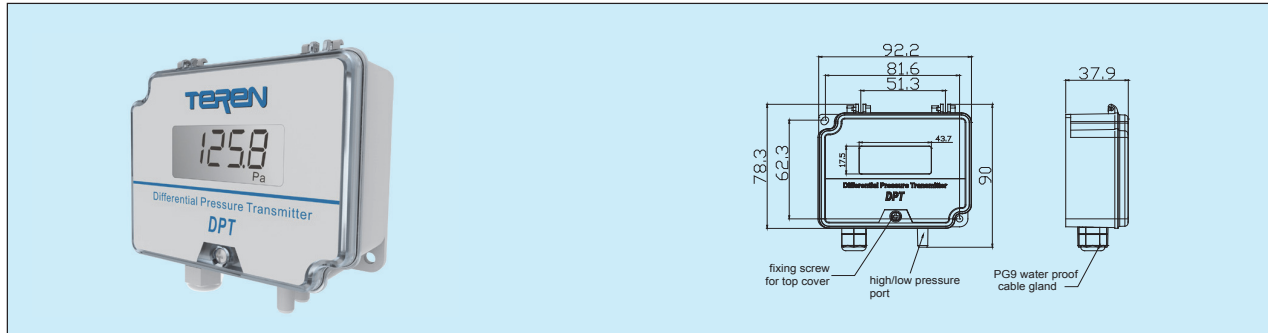
Each package has the LCD module

And the film for the cover 1 set (-1)

Or 5 sets (-5)



DPTL Economical Differential Pressure Transmitter



Applications & Features

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- Multiple ranges, engineering units and outputs.
- Low cost design, accuracy up to 1%FS
- Function keys: zero calibrate, unit select, response time set, etc
- Field upgradable LCD display module

Specifications

Medium: on-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: up to $\pm 1.0\%$ FS, see accuracy table

Long term stability: $\pm 0.5\%$ FS /Year

Thermal effect: $< 0.05\%$ FS/°C (zero), $< 0.08\%$ FS/°C (FS)

Response Time: 0.5~30s, can be set by keys

Process Connection: 5mm ID tubing

Display: 5 digits LCD, with unit indication, field upgradable

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

Output Load: $\leq 500\Omega$ (current), $\geq 2K\Omega$ (voltage)

Power Supply: 15~28V AC/15~36VDC

Unit select: by keys

Zero set: easy to reset by external key

Materials: ABS(housing) & PC(cover)

Protection: IP54

Approval: CE

Models

Model	DPTL			Economical DP transmitter
Range		See table		Range selection
Output			1 2 8	0-10V 4-20mA(2 wires) RS485/Modbus
Display			0 1	N/A LCD

Accessory:

1. Flush mount panel

Model: DPT-A

316 SS panel, for flush mount, no duct and easy to clean.

Dimensions:

103(W)×91(H)×1.2(D)mm



2. Field upgradeable LCD Display

Model: DPT-LCD-1/DPT-LCD-5

Each package has the LCD module

and the film for the cover 1 set (-1)

or 5 sets (-5)



Measuring ranges & Accuracy

Code	Unit & Range & Display resolution						Accuracy(%FS)
	Pa	Pa	kPa	in w.c.	mm w.c.	mbar	DPTL
2	0-125	125.0	0.125	0.500	12.00	1.250	2%
3	0-250/500/1000	250.0	0.250	1.000	25.00	2.500	1%
		500.0	0.500	2.000	50.00	5.000	1%
		1000	1.000	4.000	100.0	10.00	1%
6	0-2500	2500	2.500	10.00	250.0	25.00	1%
7	0-5000	5000	5.000	20.00	500.0	50.00	1%
8	0-10000	10000	10.00	40.00	1000	100.0	1%
9	0-20000	20000	20.00	80.00	2000	200.0	1%

Note: 1. Code 3 has multiple ranges which could be jumper selected.

2. Set the 5 engineering units by button keys and the related LCD indicator will be on.

3. For zero center models, add "Z" at the end of the model. For example, DPTL2**Z, means the range is -62.5-0-62.5pa.