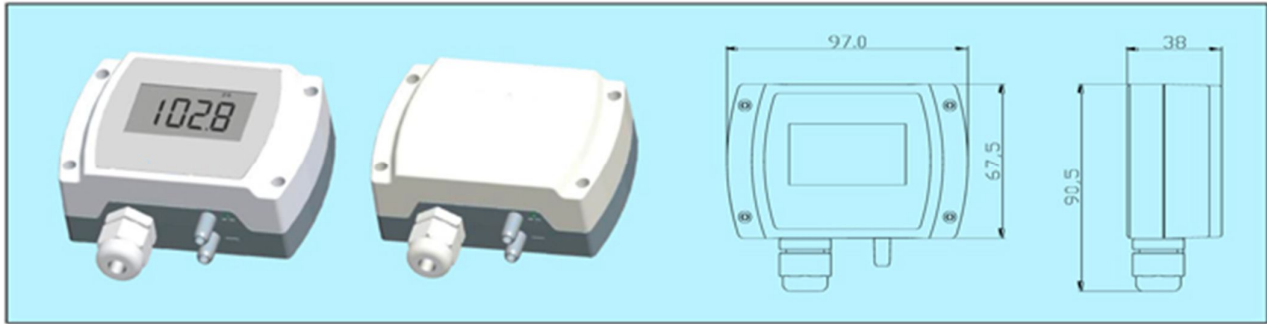


DPTH High Accuracy Differential Pressure Transmitter



Applications & Features

- Apply high accuracy MEMS sensor and digital technologies, can measure positive, negative or differential pressure, and air velocity or volume
- 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 up to 0.5% and range as low as 25Pa
- Function keys: zero reset, unit select, response time set, square root output set (air velocity or volume), K factor calibrate and area parameter's input, etc.
- Field upgradable LCD display module
- Square root output: when applying along with pitot tubes or other air velocity or volume sensor, can supply linear output for air velocity or volume

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: $\pm 0.5\%FS(\pm 1.0\%FS@25Pa \text{ range})$

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

Thermal effect: $<0.03\%FS/^{\circ}C$ (zero), $<0.04\%FS/^{\circ}C$ (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)

Measuring Ranges

Code	UNIT & Range & Display Resolution					
	Pa	Pa	kPa	in w.c.	mm w.c.	mbar
0	0-25	25.00	0.025	0.100	2.500	0.250
1	0-60	60.00	0.060	0.250	6.000	0.600
2	0-125	125.0	0.125	0.500	12.00	1.250
3	0-250	250.0	0.250	1.000	25.00	2.500
4	0-500	500.0	0.500	2.000	50.00	5.000
5	0-1000	1000	1.000	4.000	100.0	10.00
6	0-2500	2500	2.500	10.00	250.0	25.00
7	0-5000	5000	5.000	20.00	500.0	50.00
8	0-10000	10000	10.000	40.00	1000.0	100.00

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

2. For zero center models, add "Z" at the end of the model. For example, RSA-TDPH1**Z, means the range is -30-0-30/-62.5-0-62.5pa. Only ranges 1~6 have this selection.

Power: Current: 18.5~35VDC($R_L=500\Omega$), 8.5~35VDC($R_L=0\Omega$)

Voltage: 16~28VAC/ 16~35VDC

Unit select: by keys

Zero set: easy to reset by keys

Materials: Fire-proof ABS/PC

Protection: IP65

Approval: CE

Models

Model	RSA-TDPH			High accuracy DP transmitter
Range		X		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: RSA-TDPH-A

316 SS panel, for clean room and flush mount, no duct collection

Dimensions:

103(W)×91(H)×1.2(D)mm



2. Field upgradeable LCD Display

Model: RSA-TDPH-LCD-1/

DPTH-LCD-5

Each package has the LCD

module and the film for the cover

1 set (-1) or 5 sets (-5)

