

Applications & Features

Apply high accuracy MEMS sensor and digital technologies, can measure positive, negative or differential pressure. RNDTL for surface mount and RNDTL-F for flush mount. It can measure system pressure of fan, filter, etc., and can apply to various clean room, biological safety cabinet, clean bench, ducts collection, medical or pharmaceutical machine, etc.

Multiple ranges, engineering units, outputs and optional LCD. Over voltage and reverse polarity protection for power inputs and outputs, high reliability.

Good performance with accuracy of 1.0% and range as low as 25Pa

Function keys: zero calibrate, unit select, response time set, etc.

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

Range: 25Pa(± 12.5 Pa) ~10kPa(± 5 kPa)

Accuracy: $\pm 1.0\%$ FS ($\pm 2.0\%$ FS@25Pa range)

Long term stability: $\pm 0.5\%$ 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

Zero set: easy to reset by external key

Process Connection: 5mm ID tubing

Display: 5 digits LCD, size 44x18mm, with unit indication

Units: 5 units, selected by DIP switches

Output: 0~5V/0~10V/4~20mA(2 or 3 wires), RS485/Modbus

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

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

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

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

Protection: IP65

Weight: 180g

Approval: CE

Accessories: flush mount panel (model RNDTL-A), can be ordered separately

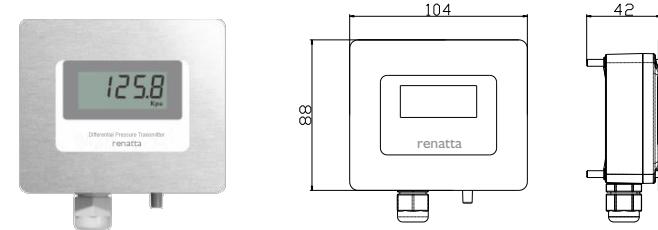
Models

Model	RNDTL			DP transmitter
	RNDTL-F			Flush mount DP transmitter
Range		x		Range selection
Output		1		0~5V/0~10V/4~20mA (3 wires)
		2		4~20mA (2 wires)
		8		RS485/Modbus
Display		0		N/A
		1		LCD

RNDTL-F Flush Mount DP Transmitter

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

It's 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 W104×H88×T1.5(mm). The opening is W94×H78.5×D42(mm). The LCD size is 44x18(mm).



Ranges

Code	UNIT & Range & Display Resolution					
	Pa	Pa	kPa	in wc	mm wc	mbar
0	0-25	25.0	0.025	0.100	2.50	0.250
1	0-60	60.0	0.060	0.250	6.00	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 DIP switches and the related LCD indicator will be on.

2. For zero center models, add "Z" at the end of the model. For example, RNDTL1xxZ means the range is 30-0-30Pa