

## RSA-TDPR Rail Mount Differential Pressure Transmitter



### Applications & Features

- Designed specifically for standard 35mm DIN rail mount, small enough for compact installation in equipments and instruments
- Apply high accuracy MEMS sensor and digital technologies, can measure differential pressure on equipments such as isolator, clean bench and cabinet for pharmaceutical, biological safety and medicine research, microelectronics, hazardous chemicals operation and various laboratories
- Multiple ranges, engineering units and outputs
- Good performance, accuracy 1.0% or 0.5%FS selectable
- Function keys: zero reset, unit select, response time set, etc

### Specifications

**Medium:** non-combustible, non-corrosive air, insensitive to moisture, dust, condensation and oil

**Temp.:** working, -20~70°C; medium, 0~60°C; Compensation, 0~50°C

**Working Pressure:** overload 10xFS, burst 15xFS

**Performance:**

Accuracy %FS	±1.0 %	±0.5 %
Thermal Effect %FS/°C (Zero/FS)	±0.05/0.08	±0.03/0.04
Stability %FS/Year	±0.5	±0.3

**Response Time:** 0.5/1/2/5s, can be set by keys

**Process Connection:** 5mm ID tubing

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

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

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

Voltage: 16~28VAC/ 16~35VDC

**Zero reset:** outside key to operate easily

**Housing:** Materials: Fire-proof ABS/PC; **Protection:** IP30

**Approval:** CE

### Models

Model	RSA-TDPR			Rail Mount DP Transmitter
Accuracy		0	1	±1%FS ±0.5%FS
Range			x	Range selection
Output			1	0~10V
			2	4~20mA(2 wires)
			8	RS485/Modbus

### Measuring Ranges

Code	Pa	Code	Pa
0	0~25	5	0~1000
1	0~60	6	0~2500
2	0~125	7	0~5000
3	0~250	8	0~10000
4	0~500		

For zero center models, add "Z" at the end of the model. For example, DPTR\*1\*Z, means the range is -30-0-30. Only 1~6 have this selection.

## RSA-TDPM Mini Differential Pressure Transmitter



### Applications & Features

- Very compact size, good for application in small equipments and instruments
- Apply high accuracy MEMS sensor and digital technologies, can measure differential pressure on equipments such as isolator, clean bench and cabinet for pharmaceutical, biological safety and medicine research, microelectronics, hazardous chemicals operation and various laboratories
- Multiple ranges, engineering units and outputs
- Good performance, accuracy 1.0% or 0.5%FS selectable
- Function keys: zero reset, unit select, response time set, etc

### Specifications

**Medium:** non-combustible, non-corrosive air, insensitive to moisture, dust, condensation and oil

**Temp.:** working, -20~70°C; medium, 0~60°C; Compensation, 0~50°C

**Working Pressure:** overload 10xFS, burst 15xFS

**Performance:**

Accuracy %FS	±1.0 %	±0.5 %
Thermal effect %FS/°C (Zero/FS)	±0.05/0.08	±0.03/0.04
Stability %FS/Year	±0.5	±0.3

**Response Time:** 0.5/1/2/5s, can be set by keys

**Process Connection:** 5mm ID tubing, two sides selectable

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

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

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

Voltage: 16~28VAC/ 16~35VDC

**Zero reset:** outside key to operate easily

**Housing:** Materials: Fire-proof ABS/PC; **Protection:** IP30

**Approval:** CE

### Models

Model	RSA-TDPM			DP Transmitter
Accuracy		0	1	±1%FS ±0.5%FS
Range			x	Range selection
Output			1	0~10V
			2	4~20mA(2 wires)
			8	RS485/Modbus
Nozzle			0	Horizontal
			1	Vertical

### Measuring Ranges

Code	Pa	Code	Pa
0	0~25	5	0~1000
1	0~60	6	0~2500
2	0~125	7	0~5000
3	0~250	8	0~10000
4	0~500		

For zero center models, add "Z" at the end of the model. For example, DPTM\*1\*Z, means the range is -30-0-30. Only 1~6 have this selection.