



### Overview:

NEOWAVE TxLDP16 is a versatile and low-cost pressure sensor controller that can be used for various applications such as air conditioning, ventilation, air flow management, lab regulation, and environmental protection. It excels in monitoring low-pressure applications with non-corrosive gases and is ideal for energy management systems.

### Feature:

- Utilizes a micro-pressure core for highly sensitive pressure response.
- Incorporates digital pressure acquisition and temperature compensation for accurate readings.
- Demonstrates strong stability and boasts an extended service life.
- Measures precise pressure and flow, catering to building pressurization and airflow control needs.

### Application:

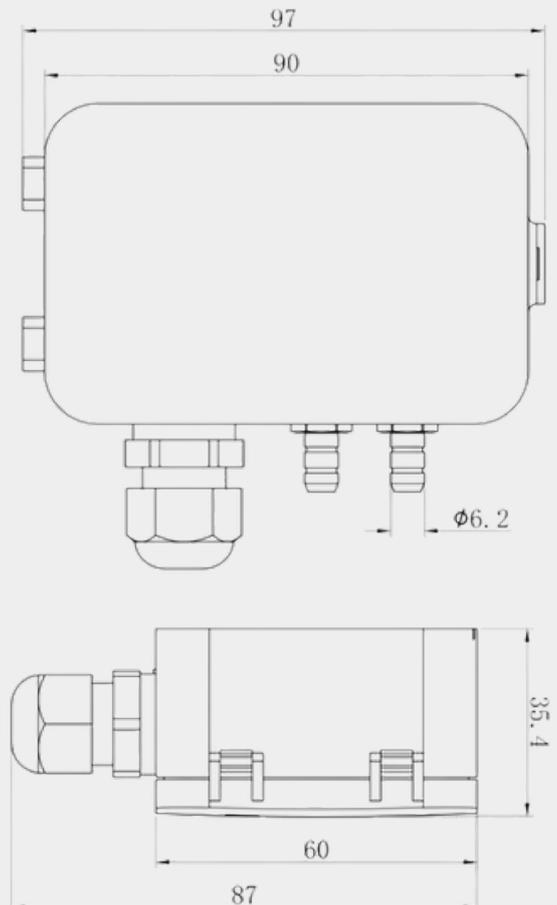
- HVAC Systems
- Sterilization and purification systems
- Power Engineering Projects and Energy management systems
- Hotel kitchen ventilation
- Laboratory ventilation and clean systems
- Animal husbandry
- Air processing systems
- Clean purification projects
- Building automation integration

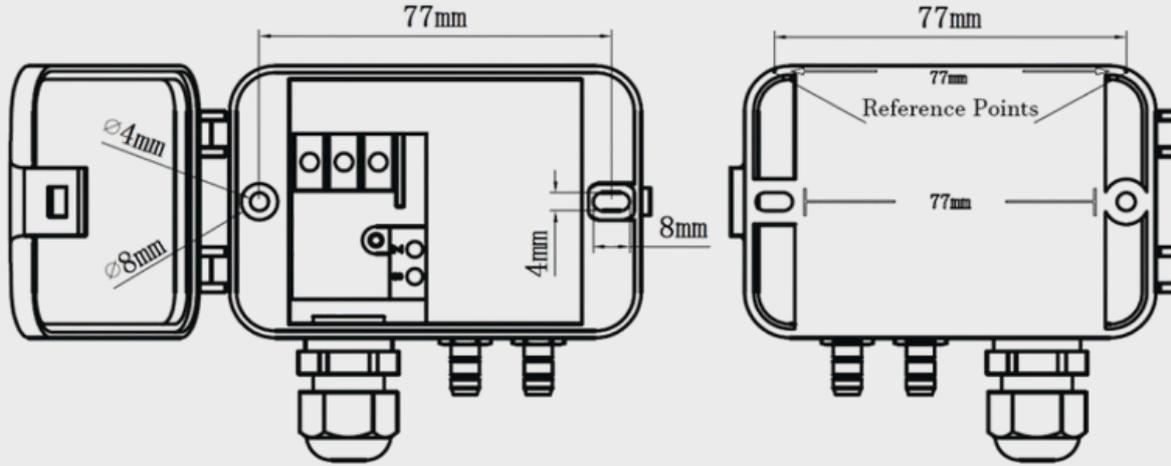
### TxLDP16

#### Low Differential Pressure Sensor



### Dimensions:





### Air Differential Pressure Sensor

Note: Better accuracy performance than  $\pm 1\%$ F.S is optional

#### Specification:

General	Value			
Pressure Range	0~±100Pa, 0~±1,000Pa, 0~±10,000Pa			
Overpressure capacity	5KPa, 10KPa, 80KPa			
Accuracy	±1%F.S			
Operating temperature	-20°C~70°C			
Response time	0.5s/1s/2s/4s			
Cable Connector	Cable maximum diameter Ø8mm			
Stability	Typical value: 0.1%F.S Maximum value:0.2%F.S			
Protection Level	IP54			
Electrical connections	Three-wired	Four-wired	Five-wired	
Output signal				
Power supply	4~20mA	0~5VDC/ 0~10VDC	RS-485	RS485+ 0~10VDC
Power consumption	10~30 VDC	16~30 VDC	10~30VDC	16~30 VDC
Pressure interface	≤1.5W			
Communication	Metal barbed interface,φ6.2mm			
Certification	RS-485 Standard interface, Modbus RTU protocol			
Electromagnetic compatibility	ROHS certification, CE certification			
Lightning protection	Electromagnetic radiation:EN50081-1/-2;Electromagnetic sensitivity:EN50082-2			
	Air conduction withstand voltage 8000V, shell and cable conduction withstand voltage 4000V			



**Order Informations:**

TxLDP16	Code				Remark	
	<b>Low Differential Pressure Sensor</b>				<b>Model</b>	
101D	101D=0±100Pa	101G	101G=0-100Pa	Measuring range G means one-way D means two-way		
102D	102D=0±1000Pa	102G	102G=0-1000Pa			
251D	251D=0±250Pa	103G	103G=0-10000Pa			
252D	252D=0±2500Pa	251G	251G=0-250Pa			
051D	051D=0±50Pa	252G	252G=0-2500Pa			
501D	501D=0±500Pa	501G	501G=0-500Pa			
502D	502D=0±5000Pa	502G	502G=0-5000Pa			
103D	103D=0±10000Pa					
	<b>A</b>	4~20mA			<b>Output type</b>	
	<b>V10</b>	0~10V				
	<b>V5</b>	0~5V				
	<b>RS</b>	RS485				
	<b>RSV10</b>	RS485、0~10VDC				
	<b>RSV5</b>	RS485、0~5VDC				
	<b>RSA</b>	RS485、4~20mA				