



### 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:

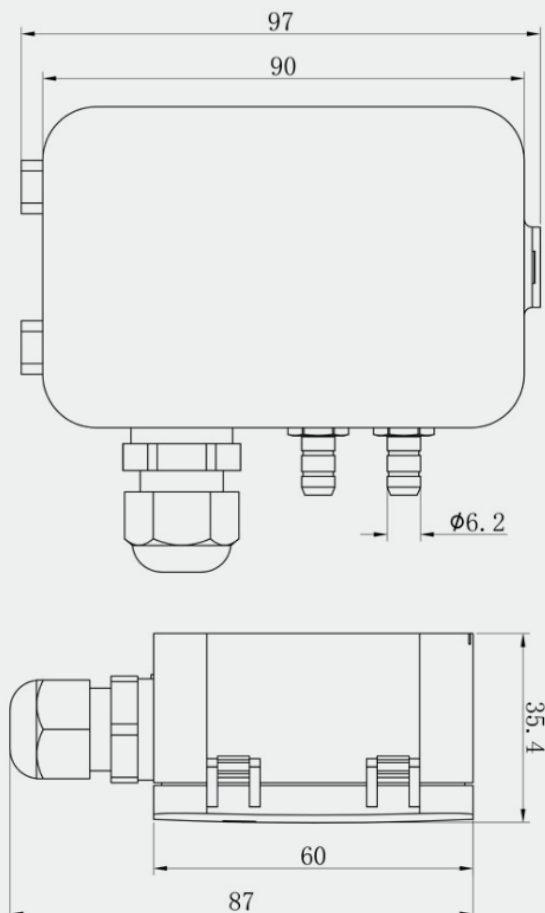
- HVAC Systems
- Sterilization and purification systems
- Power Engineering Projects and Energy management systems
- Hotel kitchen ventilation
- Laboratory ventilation and clean systems
- Animal husbandry
- Air processing systems
- Clean purification projects
- Building automation integration

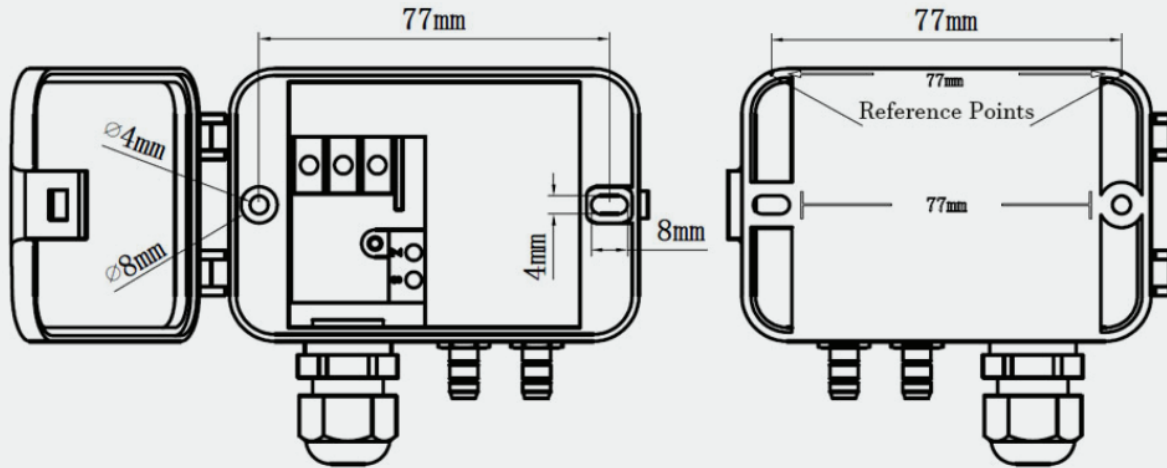
### TxLDP16

#### Low Differential Pressure Transducer



### Dimensions:





### Air Differential Pressure Transmitter

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

#### Specification:

| General                       | Value  |                 |            |                |
|-------------------------------|--|-----------------|------------|----------------|
| Pressure Range                | 0~ $\pm 100Pa$ , 0~ $\pm 1,000Pa$ , 0~ $\pm 10,000Pa$                                      |                 |            |                |
| Overpressure capacity         | 5KPa, 10KPa, 80KPa   |                 |            |                |
| Accuracy                      | $\pm 1\%F.S$   |                 |            |                |
| Operating temperature         | -20°C~70°C   |                 |            |                |
| Response time                 | 0.5s/1s/2s/4s  |                 |            |                |
| Cable Connector               | Cable maximum diameter $\varnothing 8mm$   |                 |            |                |
| 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                 | 4~20mA   | 0~5VDC/ 0~10VDC | RS-485     | RS485+ 0~10VDC |
| Power supply                  | 10~30 VDC  | 16~30 VDC       | 10~30VDC   | 16~30 VDC      |
| Power consumption             | $\leq 1.5W$  |                 |            |                |
| Pressure interface            | Metal barbed interface, $\varphi 6.2mm$  |                 |            |                |
| Communication                 | RS-485 Standard interface, Modbus RTU protocol   |                 |            |                |
| Certification                 | ROHS certification, CE certification   |                 |            |                |
| Electromagnetic compatibility | Electromagnetic radiation: EN50081-1/-2; Electromagnetic sensitivity: EN50082-2            |                 |            |                |
| Lightning protection          | Air conduction withstand voltage 8000V, shell and cable conduction withstand voltage 4000V |                 |            |                |



Order Informations:

| TxLDP16 | Code                                 |                |                |   | Remark      |
|---------|--------------------------------------|----------------|----------------|---|-------------|
|         | Low Differential Pressure Transducer |                |                |   | Model       |
| 101D    | 101D=0±100Pa                         | 101G           | 101G=0-100Pa   | Measuring range<br>G means one-way<br>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    | 103B=0±10000Pa                       |                |                |   |             |
|         | A                                    | 4~20mA         |                |   | Output type |
|         | V10                                  | 0~10V          |                |   |             |
|         | V5                                   | 0~5V           |                |   |             |
|         | RS                                   | RS485          |                |   |             |
|         | RsV10                                | RS485, 0~10VDC |                |   |             |
|         | RsV5                                 | RS485, 0~5VDC  |                |   |             |
|         | RsA                                  | RS485, 4~20mA  |                |   |             |