

Transmitter with ModbusRTU output for the continuous measurement of differential pressure in an IP54 case.

Integrated 2.8 Zoll LCD touch display.

Can be ordered as a variant with 1 or 2 dP sensors.

Bidirectional differential pressure sensors based on dynamic (massflow) measurement with absolute pressure sensor included.

Configuration with USB cable for Windows PC.



| Art.-Nr.: | Product-name:   |                    |
|-----------|-----------------|--------------------|
| 2602295   | nLink+ DI MR B  | 1*dp sensor ±250Pa |
| 2602296   | nLink+ DI MR BB | 2*dp sensor ±250Pa |

### Technical data

| Description                   | nLink+ DI MR DP250   |
|-------------------------------|--|
| Measurement Range             | -250 to +250 Pascal  |
| Accuracy at 20°C              | Range ±50Pa: ±0.20Pa      Range ±100Pa: ±0.25Pa      Range ±250Pa: ±0.50Pa                                     |
| Temperature effect            | Max. ±0.10Pa   |
| Max. Resolution               | 0.1 Pa   |
| Long term stability           | ±0.05% FSS (typ)   |
| Flow rate                     | <200ul/min   |
| Ambient pressure dependency   | Compensated with built in abs pressure sensor  |
| Ambient pressure: Range       | 700 – 1260 hPa / mBar  |
| Ambient pressure: Accuracy    | ±0.5 hPa   |
| Max. permissible overpressure | 2 bar (burst pressure 4 bar)   |
| Power supply                  | Rated voltage: 24 V AC / DC; Permissible voltage range: 5 to 48 V DC / 24 V AC                                 |
| Power consumption             | <0.5W  |
| Display                       | 2.8 Zoll LCD Touch Display   |
| Status LED                    | LED for power On, LED for nSens connected  |
| Output                        | ModbusRTU (all climate data and diagnostic information as described in the Modbus register in the user manual) |
| Housing material              | PC/ABS   |
| Protection class              | IP54   |
| Soldering material            | lead free (RoHS compliant)   |
| Working temp.                 | 0 to 50°C  |

| Description         | nLink+ DI MR DP250   |
|---------------------|--|
| Working temp.       | 0 to 50°C  |
| Storage temperature | -10 to 60°C (non-condensing)   |
| CE-/EMC             | Safety: EN 61010-1:2020  |
|                     | EMC: IEC 61000-6-3:2020, EN 61000-6-3:2007+A1:2011 EN IEC 6100-6-3:2021  |
|                     | IEC 61000-6-2:2016, EN 61000-6-2:2019                                    |
|                     | IEC 61326-1:2012 / EN 61326-1:2013<br>IEC 61326-1:2020 / EN 61326-1:2021 |

**Electrical installation:**

|                |   |                             |
|----------------|---|-----------------------------|
| Clamping range | 0.13 - 1.5mm <sup>2</sup> (Push-in Spring clip) |                             |
| Wires          | w. plastic collar ferrule DIN 46228/4:          | 0,25 - 0.75 mm <sup>2</sup> |
|                | w. wire end ferrule DIN 46228/1:                | 0,25 - 1.50 mm <sup>2</sup> |
|                | Solid, min. H05(07) V-U                         | 0,2 - 1.50 mm <sup>2</sup>  |
|                | Wire connection cross section AWG28 - 14        |                             |

Cable specifications depend on the installation and have to be defined by the designer or installer. Heavy machinery and other instrumentation should not share the same power supply wiring. Use noise filters and surge protectors if required.

For EMC protection it is recommended to take the following measures:

- Wires emitting interference must be separated from measurement and analysis units
- Parallel guidance of measurement cables and electrical power cables must be avoided, use different channels with separation (see European Standard EN50170 for detailed information)

**Dimension & Schematics:**

