

Dual channel transmitter with 2 analog signal outputs for the continuous measurement of differential pressure in an IP64 case.

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.

Configuration possible without external power supply.

Art.-Nr.:	Product-name:	
2602172	nLink+ IP AS B	1*dp sensor ±250Pa
2602173	nLink+ IP AS BB	2*dp sensor ±250Pa



### Technical data

Description	nLink+ IP AS 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	none		
Status LED	LED for power On, LED for nSens connected		
Output	2 scalable analog outputs, current 0/4..20mA or voltage 0/2..10V		
	Accuracy <0.05% of span		
	Linearity <0.05% of span		
	Temperature effect 0.005% of span / °C		
	Load (I):	min. 0Ω / max. 500Ω or (Uin-2V)/Imax	
	Load resistance (U):	min. 10 kΩ / max. ∞Ω	

Description	nLink+ IP AS DP250	
Housing material	PC/ABS	
Protection class	IP64	
Soldering material	lead free (RoHS compliant)	
Working temperature	0 to 50°C	
Storage temperature	-10 to 60°C (non-condensing)	
CE-/EMC	Safety:	EN 61010-1:2020
	EMC:	IEC 61000-6-2:2016, EN 61000-6-2:2019
		IEC 61000-6-3:2020, EN 61000-6-3:2007+A1:2011

**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:**

