

Product	nLink+ Differential pressure	novasina The Art of Precision Measurement
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nLink+ IP: Differential pressure sensor +/-250Pa



Dual channel transmitter with 2 analog signal output for the continuous measurement of differential pressure in a IP67 case.

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

IP65 Transmitter with analog outputs (mA or V), can be equipped with second dP Sensor.

Configuration with USB cable for Android smartphones or Windows PC.
Configuration possible without external power supply.

Art-No:

Single Channel: nLink+ IP AS B (1* dP sensor +/-250Pa)
Dual Channel nLink+ IP AS BB (2* dP sensor +/-250Pa)

Technical Data

Name	nSens-DP250
Measurement Range	-250 to +250 Pascal
Accuracy at 20°C	Typical +/- 0.25Pa
Temperature effect	Max. +/- 0.10Pa
Response time T63	<1s typ.
Max. Resolution	0.1 Pa
Long term stability	+/-0.10% 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 5 bar)
General Specification	nCom+ AS
Power supply	24V DC, Permissible voltage range: 5 to 39V
Power consumption	<0.5W
Display	none
Analogue outputs	2 scalable analogue outputs, current 0/4..20mA or voltage 0/2..10V
2* 0/4 - 20mA or 2* 0/2 - 10V	Accuracy <0.05% of span Linearity <0.05% of span Temperature effect 0.005% of span / °C Load (I): min. 0 Ω / max. 500 Ω or (Uin-2V)/Imax Load resistance (U): min. 10 kΩ / max. ∞ Ω
Status LED	LED for power On, LED for nSens connected
Housing material	ABS
Protection class	IP67
Soldering material	lead free (RoHS compliant)
Working temp.	0 to 50°C

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Electrical Installation

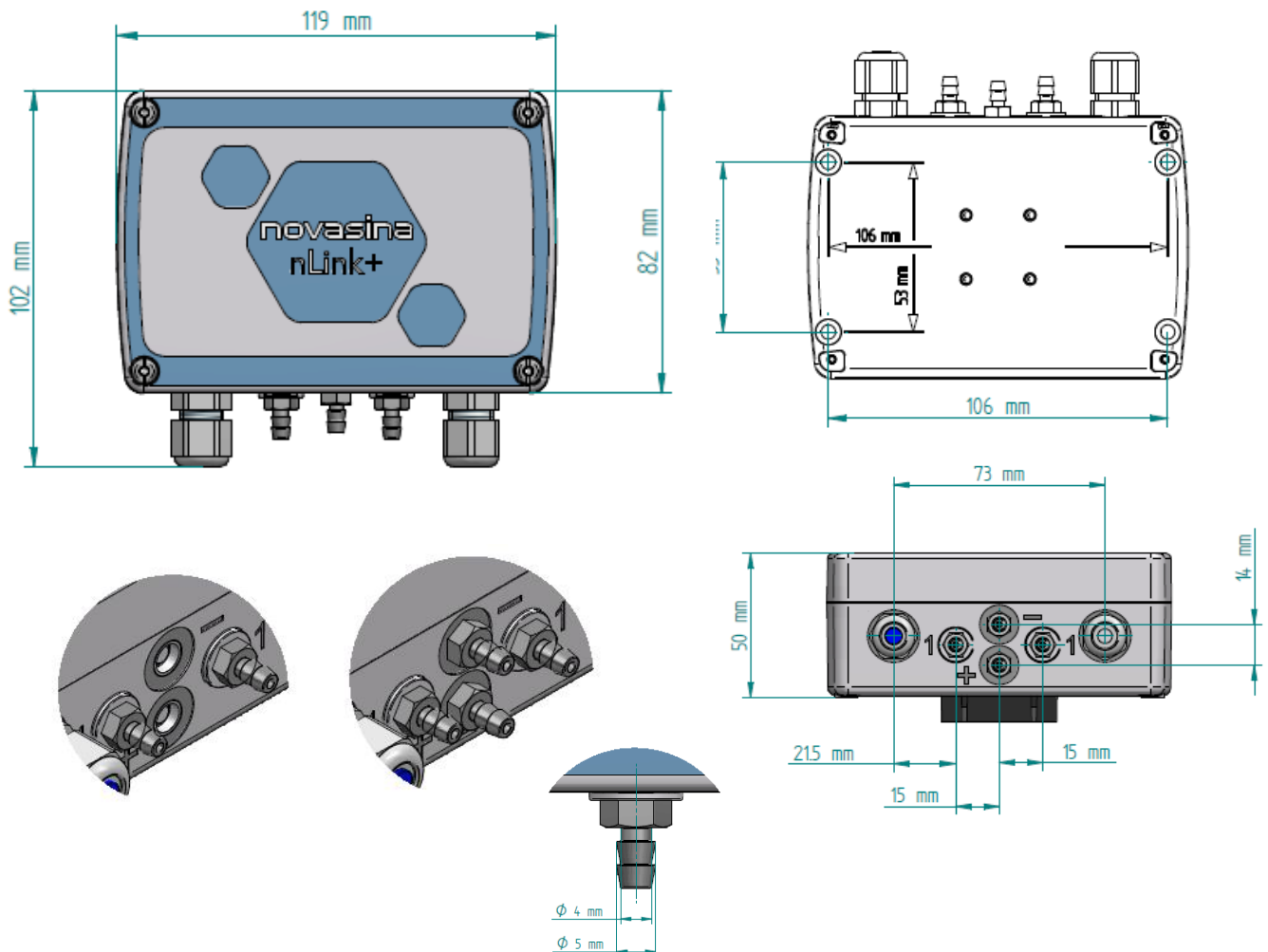
	Wire specification
Clamping range	0.13 - 1.5mm ² (Push-in Spring clip)
Wires:	w. plastic collar ferrule DIN 46228/4: 0,25 - 0.75 mm ² w. wire end ferrule DIN 46228/1: 0,25 - 1.50 mm ² Solid, min. H05(07) V-U 0.2 - 1.50 mm ² Wire connection cross section AWG28 - 14
CE-/EMC	Safety: IEC 61010-1:2010 EMC: IEC 61000-6-2:2016, EN 61000-6-2:2005 IEC 61000-6-3:2006+A1:2010, EN 61000-6-3:2007+A1:2011

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



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Accessories

Configuration cable: nlink-USB	Configuration- Software
Configuration cable for nLink+ to Android or Windows PC. Software available for download	Windows PC Software nSoft-ACT-T (>V2.0)
	
260 1818 nlink-USB-CA3 (complete set)	license free, download www.novasina.ch

Factory calibration certificate Art-No 111 7603	ISO 9001 certificate on 3 measuring points
Traceable certificate SCS Art-No 2601660	SCS accredited certification according ISO17025 on 10 points

Technical data subject to change without prior notice