

<b>Product</b>	<b>nLink+ differential pressure IP &amp; EC (250Pa)</b>	<b>novasina</b> The Art of Precision Measurement
<b>Document</b>	Datasheet	Novasina AG CH-8853 Lachen
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## nLink+ IP AS B: Differential pressure sensor +/-250 Pa with analog Output



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

### Art-No:

260 2172	nLink+ IP AS B	1* dP sensor +/-250Pa
260 2173	nLink+ IP AS BB	2* dP sensor +/-250Pa

### Technical Data

Name	
Measurement Range	-250 to +250 Pascal
Accuracy at 20°C	Typical +/- 0.25%
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 4 bar)
<b>General Specification</b>	
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	IP64
Soldering material	lead free (RoHS compliant)
Working temp.	0 to 50°C

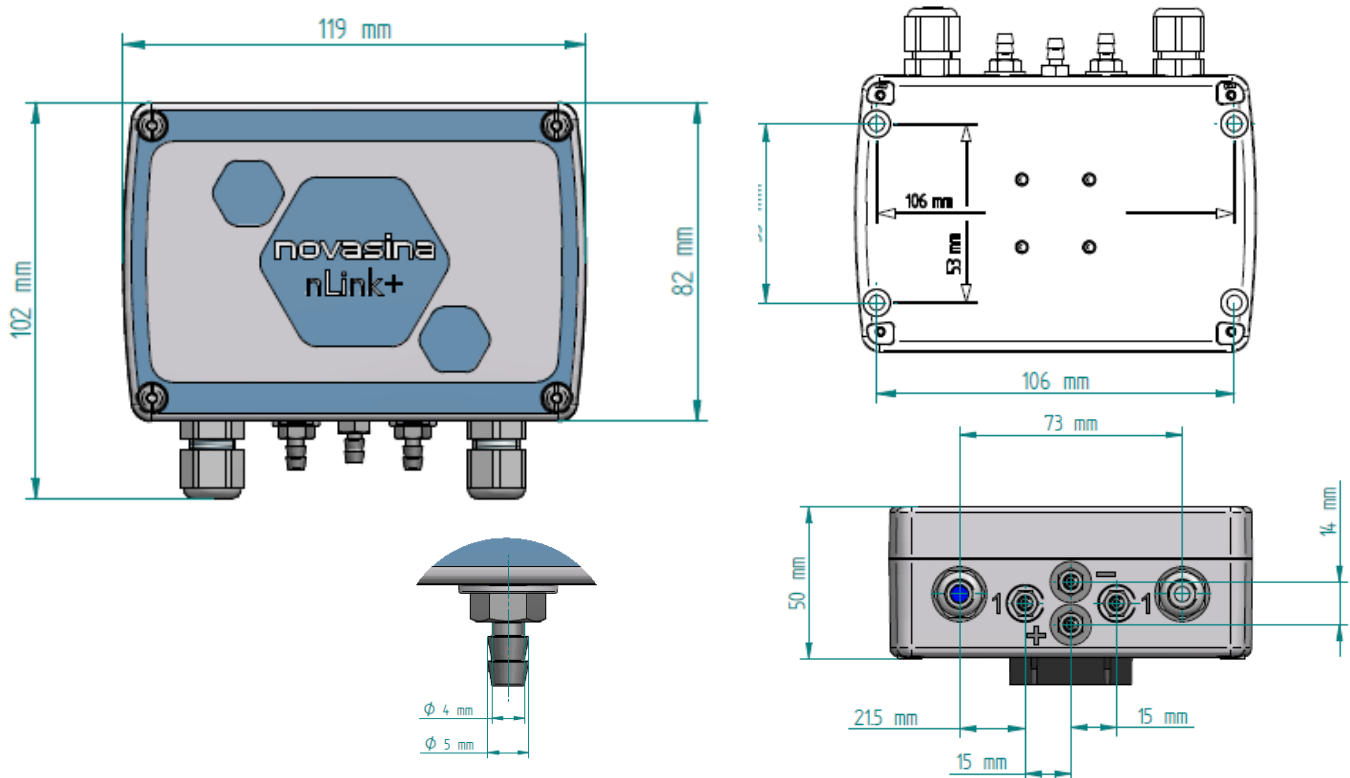
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## Electrical Installation



	<b>Wire specification</b>
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
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

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.

## Dimension & Schematics



## Accessories

<b>Configuration cable: nlink-USB</b>	<b>Wall mount / din rail mount</b>
Configuration cable for nLink+ to Android or Windows PC. Software available for download	
	
260 1818 nlink-USB-CA3 (complete set)	2602053: wall / rail mount

Technical data subject to change without prior notice

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## nLink+ EC AS B: Differential pressure sensor +/-250 Pa with analog Output



Dual channel transmitter with 2 analog signal output for the continuous measurement of differential pressure for mountain rail installation. 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-No:

2602203	nLink+ EC AS B	1* dP sensor +/-250Pa
2602204	nLink+ EC AS BB	2* dP sensor +/-250Pa

### Technical Data

Name	nLink+EC AS B / nLink+EC AS BB
Measurement Range	-250 to +250 Pascal
Accuracy at 20°C	Typical +/- 0.25%
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 4 bar)
<b>General Specification</b>	
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	PA6.6 (UL94V0), mounting rail holder
Protection class	none, installation in protected cabinet required
Soldering material	lead free (RoHS compliant)
Working temp.	0 to 50°C

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## Electrical Installation

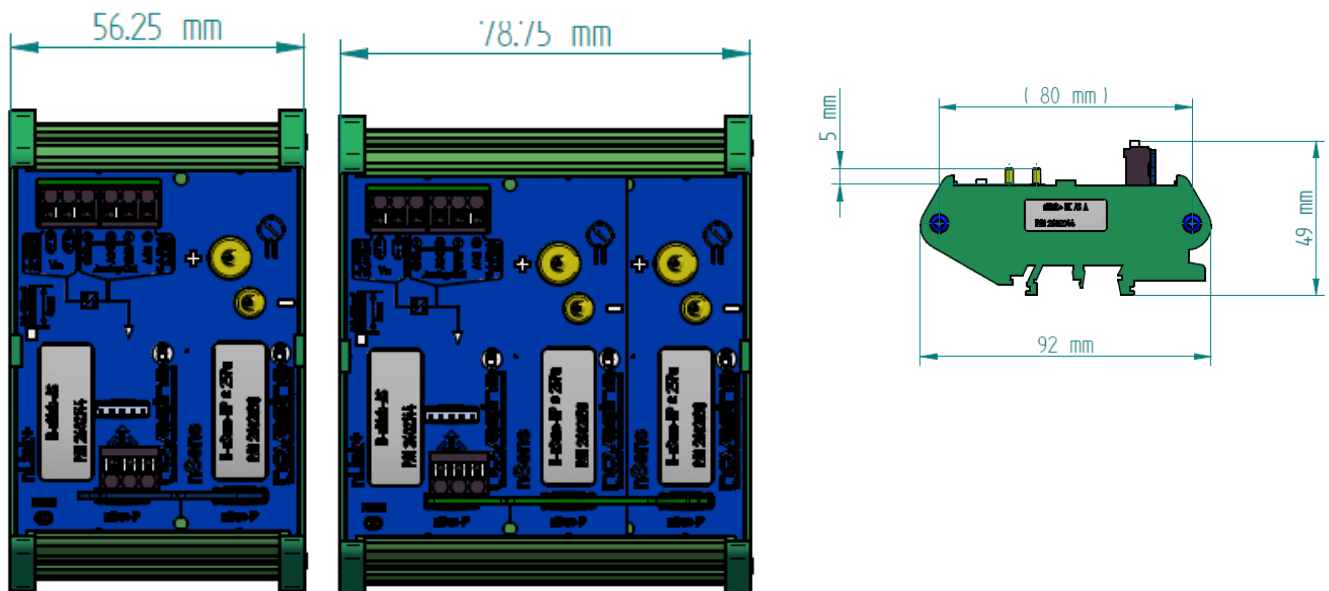
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Cable specifications depend on the installation and have to be defined by the designer or installer. Heavy machinery and other instrumentation should not share the same power supply wiring. Use noise filters and surge protectors if required.

## Dimension & Schematics

nLink+ EC AS B

nLink+ EC AS BB



## Accessories

### Configuration & Calibration: nlink-USB

Configuration cable for nLink+ to Windows PC.  
nSoft-ACT-T Software available for download



2601818: nlink-USB-CA3 (complete set)

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