novasina

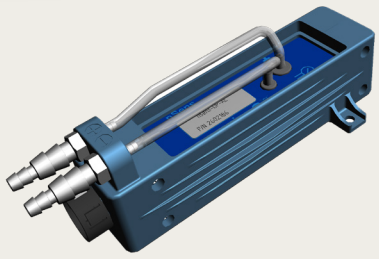
TECHNICAL DATA SHEET
nSens-DP

Digital differential pressure sensor for ambient air condition.

Digital sensor stores calibration data and identification for quick exchange and calibration.

nSens-DP is compatible with all nLink+ transmitters, nlink-USB adapter and nSens extension cables.

Calibration and configuration with Novasina-USB cable for Windows PC.



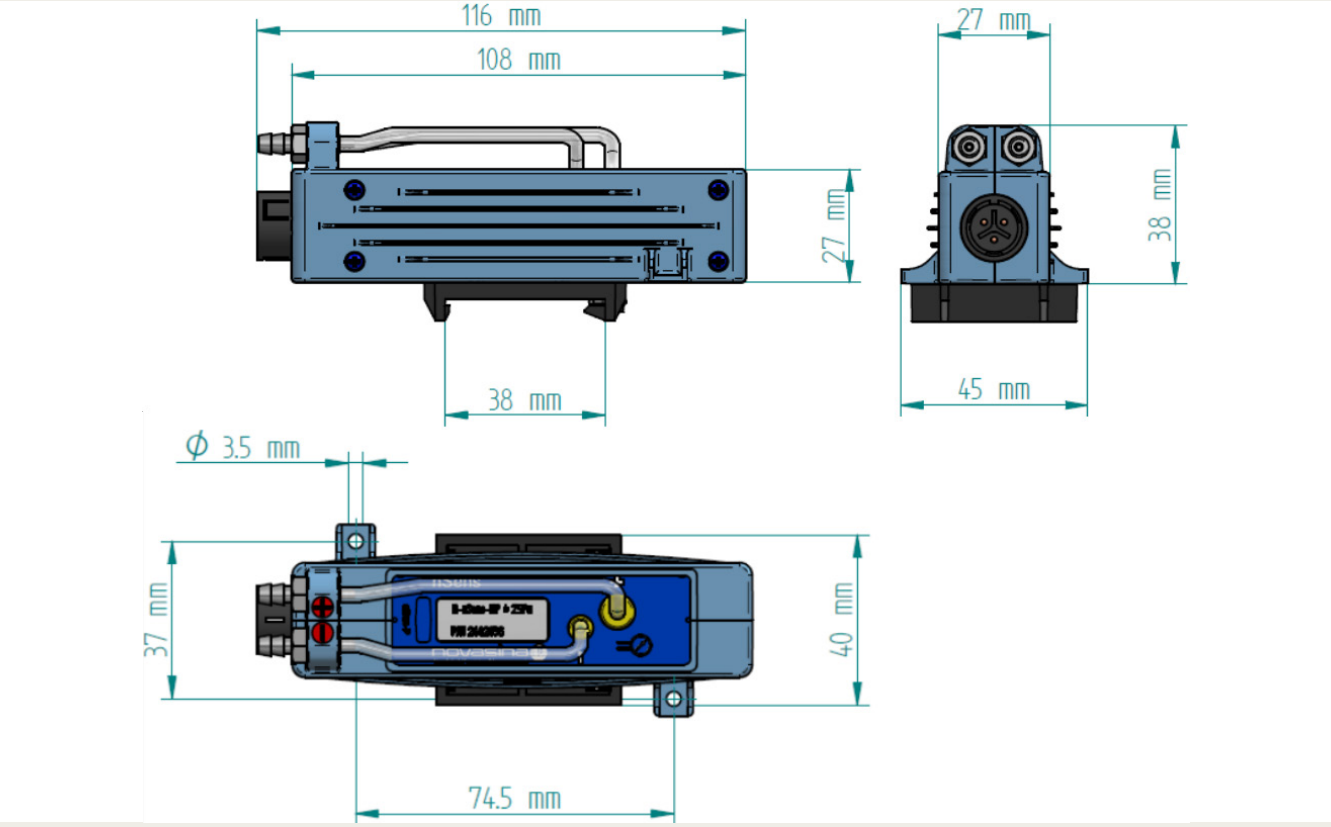
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Art.-Nr.:	Product-name:	
2602186	nSens-DP-AE	1*dp sensor ±25Pa
2602187	nSens-DP-BE	1*dp sensor ±250Pa
2602188	nSens-DP-CE	1*dp sensor ±5000Pa

Technical data

Description	nSens-DP-AE	nSens-DP-BE	nSens-DP-CE
Measurement Range	-25 to +25Pa	-250 to +250Pa	-5000 to +5000Pa
Accuracy at 20°C	±0.15Pa	Range ±50Pa: ±0.20Pa Range ±100Pa: ±0.25Pa Range ±250Pa: ±0.50Pa	±1.0% F.S.
Temperature effect	Max. ±0.10Pa	Max. ±0.10Pa	Max. ±0.20Pa
Max. permissible overpressure	2 bar (burst pressure 4 bar)	2 bar (burst pressure 4 bar)	0.1 bar (burst pressure 0.3 bar)
Flow rate	<200ul/min	<200ul/min	None
Max. Resolution	0.1 Pa	0.1 Pa	0.1 Pa
Long term stability	±0.05% FSS (typ)	±0.05% FSS (typ)	±0.05% FSS (typ)
Ambient pressure dependency	Compensated with built in absolute pressure sensor		
Ambient pressure: Range	700 – 1260 hPa / mBar		
Ambient pressure: Accuracy	±0.5 hPa		
Housing material	PA12		
Protection class	n/a		
Soldering material	lead free (RoHS compliant)		
Working temperature	0 to 50°C		
Storage temperature	-10 to 60°C (non-condensing)		
Calibration	1-point. Requires nLink-USB and PC software (nSoft-CAL-DP)		
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		

Dimension & Schematics:



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