Nordvale GmbH
Flow measurement for process industry

NV-200 electromagnetic flow sensor

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The NV-200 measures the flow of conductive liquids in pipes from DN25 to DN150 (1 to 6 in.), with no moving parts and no pressure loss. It is built for water treatment, chemical dosing and food processing lines, and pairs with the NT-10 transmitter.

Measuring range and accuracy

NOMINAL SIZE	FLOW RANGE	ACCURACY	REPEATABILITY
DN25 (1 in.)	0.2 to 18 m³/h	±0.3% of reading	±0.1%
DN50 (2 in.)	0.7 to 70 m³/h	±0.3% of reading	±0.1%
DN80 (3 in.)	1.8 to 180 m³/h	±0.3% of reading	±0.1%
DN100 (4 in.)	2.8 to 280 m³/h	±0.3% of reading	±0.1%
DN150 (6 in.)	6.3 to 630 m³/h	±0.4% of reading	±0.15%

Accuracy at reference conditions: water at 20 °C, flow velocity 0.5 to 10 m/s, straight inlet of 5 × DN.

Process conditions

PROPERTY	VALUE
Medium	Conductive liquids, at least 5 µS/cm
Medium temperature	−20 to +130 °C with PTFE liner
Process pressure	Up to 16 bar (PN16) or ANSI Class 150
Liner	PTFE or hard rubber
Electrodes	Stainless steel 1.4571, Hastelloy C or titanium
Protection	IP67, IP68 on request

Electrical connection (with NT-10 transmitter)

PROPERTY	VALUE
Supply	24 V DC ±20% or 100 to 240 V AC
Outputs	4 to 20 mA with HART, two pulse or status outputs
Display	Backlit, two lines, totaliser
Cable to sensor	Up to 30 m (100 ft) for remote mounting

Ordering code

POSITION	OPTION
NV-200	Base sensor
-050	Nominal size (025, 050, 080, 100, 150)
-P	Liner: P = PTFE, R = hard rubber
-S	Electrodes: S = stainless steel, H = Hastelloy C, T = titanium
-F16	Process connection: F16 = PN16 flange, A150 = ANSI Class 150

Example: **NV-200-050-P-S-F16**

Declaration and documents

EU declaration of conformity and calibration certificate per sensor on request. Dimensions and installation guide: nordvale.example/nv-200.

> Example document: Nordvale GmbH and the NV-200 are fictional. The values above illustrate a datasheet layout and are not product data.