

Electromagnetic Flow Meter

DATASHEET

NT-VMF — ELECTROMAGNETIC FLOW METER

Based on Faraday's law of electromagnetic induction. No moving parts, zero pressure drop, suitable for any conductive liquid. Available in compact and remote-mount versions with six liner and six electrode material options.

KEY FEATURES

- ▶ No moving parts — zero maintenance
- ▶ $\pm 0.2\%$ accuracy available
- ▶ Bi-directional flow measurement
- ▶ Self-diagnosis & empty-pipe alarm
- ▶ 4-20 mA + Pulse + RS485 standard
- ▶ HART / PROFIBUS / GPRS optional
- ▶ Liner: PTFE · Neoprene · PU · F46
- ▶ Electrodes: SS316L · HC · Ti · Pt

APPLICATIONS

Water & Wastewater

Chemical Processing

Food & Beverage

Mining & Slurry

HVAC & Cooling

Oil & Gas

TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
Nominal Size	DN3 — DN3000 ($\frac{1}{8}$ " — 120")
Flow Velocity	0.2 — 15 m/s
Accuracy	$\pm 0.5\%$ · $\pm 0.3\%$ · $\pm 0.2\%$ (opt.)
Min. Conductivity	$\geq 5 \mu\text{S/cm}$
Body Material	Carbon Steel / SS304 / SS316
Liner	PTFE · Neoprene · PU · F46
Electrodes	SS316L · Hastelloy C · Ti · Pt
Nominal Pressure	0.6 / 1.0 / 1.6 / 2.5 / 4.0 MPa
Medium Temperature	$-10^\circ\text{C} \sim +150^\circ\text{C}$
Supply Voltage	AC 85–250 V / DC 20–36 V
Output	4–20 mA + Pulse + RS485
Protection	IP65 / IP67 / IP68
Ex Rating	ExdIICT6 (optional)