MINIMAG
Compact Electromagnetic flowmeter

Low flow measurement for conductive and chemically aggressive liquids
Available Dn 3 | 6 | 8 |15 | 20 | 25 mm
Very low pressure drop
No moving parts, No wear, insensitive to particles
High sampling rate, Works for oscillation flow
Insensitive to changes of viscosity
PVDF / POM pipe and process connections
Hastelloy C® or Stainless steel 1.4404 electrodes
Measurement accuracy: 1%

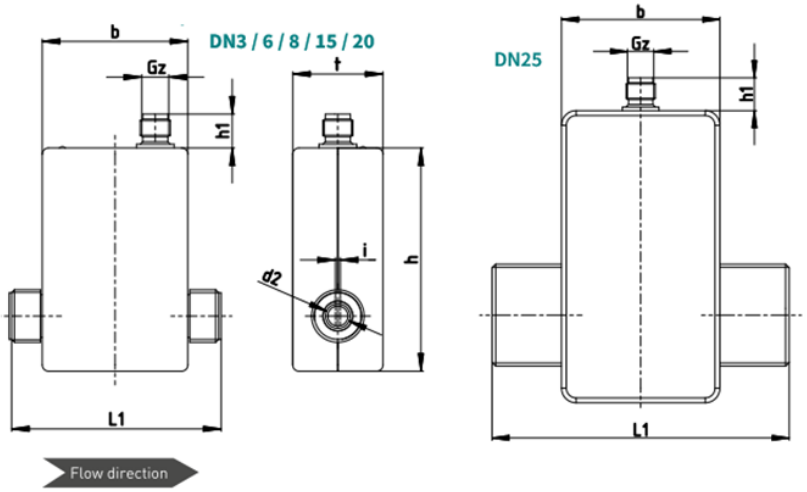
MiniMag is a compact, lightweight electromagnetic flowmeter designed for a wide range of industrial applications. It is ideal for measuring clean water, cooling water, wastewater, and liquid feed supplements. Additionally, it is well-suited for dosing mold release agents, detergents, chemical additives, colorants, fertilizers, fungicides, pesticides, and AdBlue.
The housing is constructed from durable ABS, while the measuring pipe and process connections are made of PVDF or POM
The electrodes and grounding rings are available in Hastelloy C® or stainless steel 316L, with O-rings made of FKM or EPDM, ensuring excellent chemical resistance and long-term reliability.

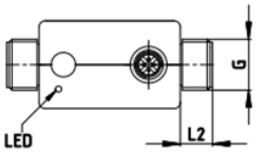
Technical Features

Flow
Bidirectional
Range dimension
DN3 ÷ DN25
Sensor pipe material
PVDF or POM
Housing material
ABS
Electrodes material
Hastelloy C - AISI316L
Measure range
>0,1l/min ÷ <250l/min
>6l/h ÷ <15.000l/h
Accuracy
±0.7 % of reading ±0.3 % of range
Repeatability
< ±1%
Fluid conductivity
>20µS/cm.

Power supply
12...24 VDC (±10 %)
Consumption
Typical 1.1 W, max. 3.6W
Operating temperature Limits
Process temperature:
Measuring pipe PVDF -15 ÷ +80°C;
Measuring pipe POM -15 ÷ +60°C;
Ambient and storage temperature:
-15 ÷ +60°C;
Output
Analog 4÷20mA; Pulse output
Electrical protection
Short-circuit proof and polarity protection

Electrical connection
4 pin plug connector M12 x 1
Max. pressure rating
10 bar at 20 °C, 8 bar at 40 °C, 6 bar at 60 °C, 5 bar at 80 °C
Humidity Limits
0-100% RH to 150 °F (65 °C), not condensing.
Response time
<100 ms
IP protection rating EN 60529
IP65
Indications
LED green, flow proportional flashing





Dimensions [mm]

Type	L1	L2	G	d2	b	h	h1	t	i
DN3	85	13	G⅜ B	Ø 3	58	89	13.5	36	
DN6	85	13	G½ B	Ø 8	58	89	13.5	36	2
DN8	85	13	G½ B	Ø 8	58	89	13.5	36	
DN15	90	16	G¾ B	Ø 14	58	89	13.5	36	
DN20	90	16	G1 B	Ø 18	58	89	13.5	36	
DN25	122	28,5	G1¼ B	Ø 25	65	120	13.5	60	

FLE20 MINIMAG compact electromagnetic flowmeter

For conductive and corrosive liquids.
Sensor pipe and lining in PVDF or POM (polyoxymethylene)
Electrodes and ground element in Hastelloy C or AISI316L
Fluid temperature range:
-15° ÷ 80°C (PVDF / Hastelloy C version)
-15° ÷ 60°C (POM / Stainless Steel 316L version)
IP65 protection rate
Max pressure: 10bar (at 20°C) 5bar (at 80°C)
Accuracy 1%

	Version	
	C	ABS housing
	DN pipe (mm)	
	03	DN3 - thread G 3/8" range 0.1 ÷ 2 l/min
	06	DN6 - thread G ½" range 0.25 ÷ 5 /min
	08	DN8 - thread G ½" range 1 ÷ 20 l/m
	15	DN15 - thread G ¾" range 2.5 ÷ 50 l/m
	20	DN20 - thread G 1" range 5 ÷ 200 l/m
	25	DN25 - thread G 1 ¼" range 12.5 ÷ 250 l/m
	Pipe material	
	G	POM (only with SS316L electrodes)
	V	PVDF (only with Hastelloy C electrodes)
	Electrodes material	
	H	Hastelloy C
	S	SS316L (1.4404)
	Output	
	1	4÷20mA + pulse