

Product announcement



High measurement performance

New robust and compact design

Three device variants available

Combination sensor

Product
in
development

Magnetic inductive flow sensors VMX

New development of magnetic inductive flow sensors

Magnetic inductive flow sensors VMX

New development of magnetic inductive flow sensors



Highlights

- Good measurement performance at the best price-performance ratio
- Marine approval
- Measurement of flow, temperature, pressure and electrical conductivity in one device

SIKA is currently developing a new generation of magnetic-inductive flow sensors.
This will result in three product variants:

The **basic** version will be an inexpensive device with a mechanically robust and thermally stable plastic housing with stainless steel process connection, which is also suitable for harsh operating conditions. **Applications:** Dosing, filling, dispensing technology, machine and plant engineering, agriculture, irrigation etc.

The **solid** version is aimed at industrial applications and is technically based on the variant mentioned above, comes with it a more stable metal housing and stainless steel process connections. For marine applications, this variant will receive EU-RO approval. **Applications:** Various industrial Applications, system cooling, release agent dosing, urea dosage for exhaust gas treatment in the marine sector and much more.

The **premium** version is designed as a combination sensor and has also a metal housing and stainless steel connections. In addition to the flow measurement, a temperature measurement is standard included. A measurement of pressure and electrical conductivity is included. A display is available. **Applications:** Various industrial applications, system cooling, automation technology and much more.

A **wide measuring range from 0.0083 to 1200 l/min** in the **nominal diameters from DN02 to DN50** is covered. The new series is characterized by improved measurement performance as well greater mechanical and thermal robustness.

All Variants are available with **IO-Link** and the common interfaces such as **frequency, pulse and analogue output**. Various process connections such as **G thread, NPT and TriClamp** can be selected.

Numerous new features are planned:

- IO-Link
- Temperature measurement
- Optional pressure measurement
- Optional measurement of electrical conductivity
- Bidirectional measurement
- Empty pipe detection
- Optional display
- Screwed electrodes
- Drinking water approval

The product is still in development, but we don't want to withhold our new product from you. There may be deviations & Changes may occur, therefore please contact our product manager Erik Heß (hess@sika.net) for up-to-date technical data.

Preliminary technical data

Preliminary technical data						
	Basic		Solid	Premium		
Nominal diameter	DN02...50					
Process connections	G threads NPT TriClamp (from DN15)					
Accuracy Flow	±(0.3 % of range + 0.7 % of reading)			±(0.1 % of range + 0.8 % of reading)		
Materials in contact with media	PPS Stainless steel Stainless steel EPDM					
→ Pipe						
→ Process connection						
→ Electrodes						
→ O-rings						
Temperature range	-20...90 °C			-4...194 °F		
Ambient temperature	-20...70 °C			-4...158 °F		
Nominal pressure	PN16					
Measuring range flow	[l/min]	[m³/h]	[gpm]	[l/min]	[m³/h]	[gpm]
→ DN02 / G ¼" / ¼" NPT	0.0083...2	0.0005...0.120	0.0022...0.5283	0.0083...2	0.0005...0.120	0.0022...0.5283
→ DN05 / G ⅜" / ¼" NPT	0.1...12	0.0060...0.720	0.0264...3.1701	0.025...12	0.0015...0.720	0.0066...3.1701
→ DN10 / G ½" / ½" NPT	0.5...50	0.0300...3.000	0.1321...13.2086	0.1...50	0.0060...3.000	0.0264...13.2086
→ DN15 / G ¾" / ¾" NPT	1...110	0.0600...6.600	0.2642...29.0590	0.2...100	0.0120...6.000	0.0528...26.4173
→ DN20 / G 1" / 1" NPT	1.33...200	0.0798...12.000	0.3513...52.8346	0.4...200	0.0240...12.000	0.1057...52.8346
→ DN25 / G 1¼" / 1" NPT	2...300	0.1200...18.000	0.5283...79.2519	0.6...300	0.0360...18.000	0.1585...79.2519
→ DN40 / G 1¾" / 1½" NPT	5...750	0.3000...45.000	1.3209...198.1297	1.5...750	0.0900...45.000	0.3963...198.1297
→ DN50 / G 2¼" / 2" NPT	8...1,200	0.4800...72.000	2.1134...317.0074	2.5...1,200	0.1500...72.000	0.6604...317.0074
Measuring range temperature	-	-20...90 °C	-4...194 °F	-20...90 °C		-4...194 °F
Measuring range pressure	-			0...16 bar		0...232 psi
Measuring range electrical conductivity	-			20...3000 µS/cm		
Empty pipe detection	-	✓		✓		
Compensation of el. conductivity	-	✓		✓		
Bidirectional measurement	✓	✓		✓		
Display	-	-		✓		
IO-Link	✓	✓		✓		
Frequency output	✓	✓		✓		
Pulse output	✓	✓		✓		
Current output 4...20 mA	Flow -			Flow Configurable: temperature, pressure or electrical conductivity		
→ Output 1						
→ Output 2						
Voltage output 0...10 V	✓	✓		✓		
Protection class	IP65					

The product is still in development, but we don't want to withhold our new product from you. There may be deviations & Changes may occur, therefore please contact our product manager Erik Heß (hess@sika.net) for up-to-date technical data.