



The game changer

Hygienic flow meter with IO-Link

- Magnetic-inductive flow meter completes the portfolio for the food industry
- Reduces the need for measuring points by providing flow rate, total volume, temperature and conductivity
- Easy to set up thanks to app-based menu and guided installation



IP69



ifm – close to you!

Nominal width	Measuring range [m³/h]	Order no.		
		Units of measurement: SI, EU With TFT display	Units of measurement: SI, EU, Imperial With TFT display	Units of measurement: SI, EU, Imperial Without TFT display
DN15 (½")	0.06...6	SMF120	SMF121	SMF150
DN25 (1")	0.16...18	SMF220	SMF221	SMF250
DN40 (1½")	0.3...45	SMF320	SMF321	SMF350
DN50 (2")	0.6...72	SMF420	SMF421	SMF450
DN65 (2½")	1.2...120	SMF520	SMF521	SMF550
DN80 (3")	1.8...180	SMF620	SMF621	SMF650
DN100 (4")	3.0...300	SMF720	SMF721	SMF750
DN125 (5")	4.5...450	SMF820	SMF821	SMF850
DN150 (6")	6.0...600	SMF920	SMF921	SMF950

No more blind spots in the digital process

The SM Foodmag takes flow measurement of liquid and creamy foods to a new level. IO-Link enables digital data transmission from the process and eliminates the last blind spot in a fully digitalised and transparent production environment. On site, the display and the all-round visible status LED indicate the current status.

Measures what matters

The sensor detects the current flow rate, total volume and flow direction, as well as the presence of the medium (often referred to as empty pipe detection). It also transmits conductivity and temperature to the control system and IT level. This reduces the need for additional measuring points.

Convenience, clarity, safety

The SM Foodmag integrates almost automatically: A standard M12 connector and patented cables enable fast, watertight and error-free connection. Common installation dimensions, along with selectable seals and process adapters, make retrofitting into existing systems easy. Parameter configuration is quick and intuitive via app-based menu navigation and guided installation.

Technical data		
Accuracy, flow rate Under reference conditions With optional factory calibration (availability is being planned)	[%]	± 0.5 MW + 1.5 mm/s ± 0.2 MW + 2 mm/s
Response time	[s]	0.3
Repeatability	[%]	± 0.1 MW
Medium temperature	[°C]	-20...150 (continuous)
Conductivity measuring range	[µS/cm]	100...100,000
Accuracy, conductivity 100...20,000 µS/cm 20,000...100,000 µS/cm	[%]	± 10 MW ± 20 MW
Materials (wetted parts)		PFA; high-grade stainless steel (316L/1.4435)
Protection rating		IP67 IP69 (to DIN EN 60529)

MW: measured value

BEST FRIENDS



IO-Link master
Field-compatible masters
for use in hygienic areas



Conductivity sensor
Precise distinction of liquid media
based on their conductivity



Pressure sensor
Hygienic, with robust
and flush-mounted ceramic
measuring cell



For further technical
details, please visit:
ifm.com/fs/SMF120