

SITRANS FM

Elevating Process Efficiency with Advanced Flow Measurement

At Siemens, we engineer with purpose. We have been a leader in industrial innovation for decades, driven by our commitment to customer needs in process industries. Our mission is to develop solutions that empower and enhance efficiency, contributing to a better world.

Customer-centricity, innovation, sustainability, and safety are our core pillars. We invest in cutting-edge technologies that guarantee high accuracy and reliability of measurement, directly contributing to the efficiency of your processes. Our solutions deliver tangible value and long-term benefits for your business and the environment.

With this commitment, we are introducing the next generation of SITRANS FM electromagnetic flowmeters. This new series offers intelligent, reliable, and future-proof flow measurement solutions, designed for seamless integration into your existing industrial infrastructure, setting new benchmarks for performance in demanding industrial applications.



SITRANS FMT020 transmitter

Build on the past to craft the future



SITRANS FMT020 is the new state-of-the-art transmitter in our electromagnetic flowmeter range, that includes backward compatibility with existing sensors.

The new SITRANS FMT020 flow transmitter is a completely new generation of the MAG transmitter series. The instrument builds on our 4-wire platform and is easy to install, configure and use. The design of the SITRANS FMT020 combines 25 years of experience with hundreds of thousands of applications and satisfied customers.

Get ready for new experiences with our SITRANS FMT020. It offers our proven SENSORPROM and unique fingerprint, combined with our embedded self-test, providing valuable information on meter performance at any time. With the new Bluetooth-operated Vericator tool, we go beyond basic internal self-tests, to a full external verification with traceable report.

True flexibility means the SITRANS FMT020 offers trend-setting connectivity and digitalization features. It also provides a large set of flexible plug-and-play modules including Profinet and Ethernet.

The SITRANS FMT020 enhances the benefits of its predecessor. It has a meticulously designed, award-winning, compact and robust enclosure using the best materials. The highly reliable electronics features future-proof connectivity and digitalization.

The SITRANS FMT020 is a cost-effective solution, with higher customer value for your applications in the water industry, but also in all other industry segments. With the powerful combination of this new transmitter and our existing sensor range, our product solutions are perfectly suited to the most varied applications.



Highlights:

Rugged and robust

The SITRANS FMT020 has a very robust one-piece top enclosure with the highest UV resistance. No more submerged and buried application challenges. Standard or potted high end IP68 enclosures are available.

Reliable in harsh environments

The SITRANS FMT020 is ready for new challenging environments with an enhanced operating temperature range, from -40 to 65°C.

User-friendly

The SITRANS FMT020 is equipped with a large, rotatable, backlit 14-digit graphical display for best visibility in any mounting position. Capacitive touch keys, more than 20 languages and menu-driven wizard for the easiest commissioning.

Comprehensive self-test and verification

Verification results and operational data can be recorded on an SD card or reported via the local display or multiple communication ports. External verification is also possible as an optional service by using the SITRANS Verificator.

Easy data access

An independent Service port and SD card slot for easy data backlog is built in. You can access your data with our PDM tool as well for service purposes.

Versatile mounting

Compact or wall bracket mounting can be determined directly on site without any hardware change.

High-performing and accurate

To enhance performance, the low-end accuracy has been significantly improved to $\pm 0.2\%$ (± 0.9 mm/s), ensuring precise readings even under challenging conditions. Combining flow velocity and conductivity measurement with outstanding repeatability, the SITRANS FMT020 is one of the top performers in its class, delivering exceptional stability.

Seamless integration

Your SITRANS FMT020 has room for flexible growth. Plug & play communication modules can be added: HART 7, Profinet, Ethernet IP, MODBUS RS485, Modbus/TCP, Profibus DP, Profibus PA and Bluetooth are available as options.

Sustainable and future-proof

The SITRANS FMT020 is also part of our corporate sustainability strategy. We understand customer challenges, resource-efficient manufacturing, fair-trade supplier practices, transparent and stable supply chains. We reduce waste, water usage and CO2 footprint. These benefits were recognized by the EcoTech Labels on SITRANS FM520 and SITRANS FM320. These are just a few of the many initiatives worth mentioning.



Unlocking full potential: Compatible SITRANS flow sensors

While the SITRANS FMT020 transmitter stands as a beacon of innovation on its own, its true power is unleashed when paired with our robust and reliable SITRANS flow sensors.

Designed to meet the diverse needs of various industries and applications, these sensors seamlessly integrate with the FMT020, offering unparalleled accuracy, durability, and performance.

Whether your challenge involves aggressive media, high temperatures, or precise measurements in critical processes, our range of electromagnetic flow sensors – the SITRANS FMS100, SITRANS FMS300, and SITRANS FMS500 – provides the perfect solution.

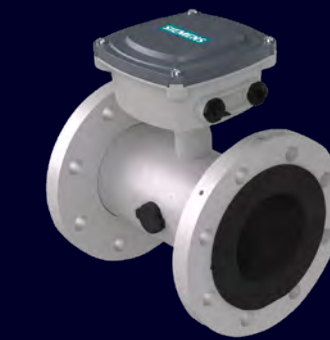
Let's explore how each sensor, in combination with the SITRANS FMT020, can elevate your flow measurement capabilities.



SITRANS FMS100



SITRANS FMS300



SITRANS FMS500

	SITRANS FMS100	SITRANS FMS300	SITRANS FMS500
Measuring range	0 to 10 m/s	0 to 10 m/s	0 to 10 m/s
Nominal sizes	From DN 2 to DN 100 (1/12" to 4")	From DN 15 to DN 2200 (1/2" to 88")	From DN 15 to DN 2000 (1/2" to 80")
Accuracy	Standard 0.4% of rate, option for 0.2% of rate	Standard 0.4% of rate, option for 0.2% of rate	Standard 0.4% of rate, option for 0.2% of rate
Operating pressure	Max. 40 bar (Max. 580psi) (dependent on sensor size and liner)	Max. 100 bar (Max. 1450 psi) (dependent on sensor size)	Max. 40 bar (Max. 580 psi) (dependent on sensor size)
Ambient temperature	From -40 to 100 °C (-40 to 212 °F)	From -40 to 100 °C (-40 to 212 °F)	From -20 to 70 °C (-4 to 158 °F)
Medium temperature	From -40 to 200 °C (-40 to 392 °F)	From -40 to 180 °C (-40 to 356 °F)	From -10 to 70 °C (14 to 158 °F)
Liners	PFA Ceramic	Neoprene, EPDM, PTFE PFA, Ebonite, Linatex	EPDM NBR
Electrodes	Hastelloy C22 / 2.4602 Platinum	Stainless steel AISI 316 Ti (1.4571) Hastelloy C-276/ 2.4819 Ceramic coated stainless steel AISI 316 Ti (1.4571) Ceramic coated Hastelloy C-276 Platinum, Titanium, Tantalum	Hastelloy C-276 Built-in grounding electrodes
Material	Housing: Stainless steel AISI 316L / 1.440 polished, Flanges: Stainless steel AISI 316L / 1.4404 flanges housing, polished; PVDF; Hastelloy	Carbon steel (or AISI 304) with corrosion resistant two-component epoxy coating or AISI 316 L polished flanges and housing	Carbon steel with corrosion resistant two- component epoxy coating
Approvals	Food approvals Ceramic: 3A PFA: 3A, FDA, EC/1935/2004 Food contact declaration of conformity	Drinking Water approvals, e.g. WRAS, NSF/ANSI Standard 61, DVGW 270, AS/NZS 4020, GB/T 5750, ACS and Belgaqua	EPDM: WRAS, NSF/ANSI Standard 61, DVGW 270, AS/NZS 4020, GB/T 5750, ACS and Belgaqua
Target applications	For demanding applications (e.g. food & beverages) and environments requiring corrosion resistance and high temperature tolerance (up to 200 °C)	For all applications, including high pressure, high temperature and OxD installations	For all water applications and OxD installations

Siemens AG
Digital Industries
Process Automation
Oestliche Rheinbrueckenstrasse 50
76187 Karlsruhe, Germany
Subject to change without prior notice

© Siemens 2026

