

Flexible solutions - for more than 30 years.

SITRANS F M Electromagnetic Flow Meters- modularity for every application.

usa.siemens.com/mag

Siemens is your partner for integrating business processes across all levels and helping you create your competitive advantage. Choosing the right flowmeter for the right application dramatically improves your operations...and your bottom line.

Combine and optimize your solution with SITRANS F M flowmeters.

The SITRANS F M electromagnetic flowmeter program makes it easier for you to manage flow. From installation to overseeing operations and verifying continuous accuracy, customers rely on SITRANS F M to improve the entire value chain of activities.

SITRANS F M brings you:

- The highest quality and most advanced technology
- User-friendly products and services
- Superior worldwide service and support
- Low maintenance costs and reduced downtime costs

With SITRANS F M you get industry-specific solutions for:

- Water, wastewater and irrigation
- Chemical
- Food and beverage
- Pharmaceutical
- Mining, aggregates and cement
- Pulp and paper
- HVAC, power and utilities





Greater flexibility

- Wide product program
- Compact or remote installation using the same transmitter and sensor
- USM II communication platform for easy integration with all systems

Easier commissioning

- SENSORPROM enables instant measurement from the start of power-up
- User-configured settings automatically stored in the SENSORPROM

Simplified operation and maintenance

- No moving parts
- Robust construction and materials
- Uniform user interface for all SITRANS F M products
- No programming required for transmitter replacement.
 SENSORPROM automatically updates all settings after initialization

Room for growth

- Plug and Play communication modules are available in a wide range of bus protocols
- Add-on components allow for future upgrades without investing in a new flowmeter

Comprehensive diagnostics

- Error logs in clear text
- Error categories: function, warning, permanent and fatal errors
- Transmitter self-check including outputs
- Sensor check
- Empty pipe; partial filling; low conductivity; electrode fouling
- System verification with SITRANS F M Verificator and Soft Verificator

Note: The SENSORPROM and Verificator are used with the MAG1100, MAG1100F, MAG3100, MAG3100P, MAG5100W, MAG5000 and MAG6000 sensor and transmitter combinations.

Contents Product overview 4 **TIA** solutions 5 Transmitter/sensor 6-7 program Water/wastewater industry 8-9 Chemical industry 10-11 Food & beverage industry 12 Pharmaceutical industry 13 Pulp, paper and mining 14-15 industries Accuracy/calibration 16 In-situ SITRANS F M 17 verification Get it all from Siemens 18 Find the right flowmeter 19

One platform – Infinite solutions

Pulsed DC electromagnetic flowmeters



High-powered AC electromagnetic flowmeter

TRANSMAG 2

The patented pulsed AC electromagnetic flowmeter: an ideal solution for mining, cement, and pulp & paper.



Battery-operated water meter

MAG 8000

Battery-powered electromagnetic water meters for water distribution, revenue and irrigation.

Optimize your production with TIA

The Siemens philosophy of modular design makes it easy to buy the electromagnetic flow meter solutions and services you need.

Totally Integrated Automation, industrial automation from Siemens, makes engineering efficient. The open system architecture covers the entire production process and offers maximum interoperability across all automation components. This is made possible by consistent data management, global standards, and uniform interfaces for hardware and software. These shared characteristics minimize engineering time. The result: lower costs, reduced time to market, and greater flexibility.

TIA creates the ideal conditions to exploit all potentials for optimization across the entire production process:

- Time and cost savings due to efficient engineering
- Minimized downtime due to integrated diagnostic functions
- Higher flexibility in production due to integrated communication
- Protection of personnel, machinery and the environment with seamlessly integrated safety technology
- Improved quality due to data consistency
- Better performance due to interoperability of system-tested components

Control level / Field level

SIMATIC PDM allows a wide variety of process devices to be configured using one software system and one uniform graphical user interface.

Siemens Transmitters - Robust - Accurate

SITRANS MAG 5000 and MAG 6000

These transmitters are specially designed to offer high performance, easy operation and reduced maintenance. MAG 5000 is a truly robust, all-around solution for a wide variety of applications. MAG 6000 is for more demanding applications where higher accuracy and greater functionality are required. FM Class 1 Div 2 approvals are standard.

SITRANS MAG 6000 I

This transmitter is designed for special demands within the process industries. The robust, full metal housing provides superb protection in the harshest industrial environments. Full input and output functionality is offered even in the FM Class 1 Div 1 version and ATEX EEx d.

Guaranteed performance

- Superior signal resolution for optimal turndown ratio
- Digital Signal Processing with unlimited possibilities
 User-configurable operation menu with password
- protection
- Multiple functional outputs for process control
- Self-diagnostics for error detection and logging
- Batch control
- Multilingual display
- Add-on bus communication modules

Siemens Sensor - Flexible - Reliable

SITRANS MAG 1100

The flangeless wafer design meets all flange standards. The MAG 1100 can be used in all industries since the corrosion-resistant stainless steel housing and the highly resistant liner and electrodes fit even the most extreme process media.

SITRANS MAG 1100 F

Especially designed for the food & beverage and pharmaceutical industries, the MAG 1100 F offers unique and flexible process connections. It meets all sanitary requirements and is 3A and EHEDG certified. Its performance is unaffected by suspended solids and changes in viscosity or temperature.

SITRANS MAG 5100 W

A sensor for all water and wastewater applications, the increased low-flow accuracy of the MAG 5100 W makes it especially useful for leak detection. It is suitable for direct

burial and constant flooding and also complies with drinking water and custody transfer approvals.

SITRANS MAG 3100 P

The MAG 3100 P for the process and chemical industries is offered in the most common combinations with PFA/ PTFE liners and Hastelloy electrodes. It is specially designed to withstand harsh environments characterized by strong chemicals or high temperatures and pressures.

SITRANS MAG 3100

This flexible and comprehensive sensor program offers a wide range of sizes. Liners and measuring electrodes capable of withstanding the most extreme processes are available. Fully welded construction provides a ruggedness that stands up to the toughest operating conditions.

			Č)	Č	Ē
Sensor	MAG 1100	MAG 1100 F	MAG 3100	MAG 3100 P	MAG 5100 W
Size	1/12"-4"	³ /8″-4″	1/2"-78"	1/2"-12"	1/2"-78"
Process temperature	4–390 °F	-20–300 °F	-4–356 °F	-4–300 °F	14–158 °F
Pressure rating	PN 40 / Max 580 psi		Max 1450 psi* ANSI 150 & 300	PN 40 / Max 580 psi / ANSI 150	ANSI 150 / AWWA D
Liner material	Ceramic PFA		Soft Rubber, EPDM, Ebonite, LINATEX, PTFE, PFA	PTFE PFA	NBR Hard Rubber, EPDM, Ebonite Hard Rubber
Electrode material	Electrode material Platinum Hastelloy C		AISI 316 Ti, Hastelloy C, Titanium, Tantalum, Platinum	Hastelloy C	Hastelloy C
Approvals	FM Class 1, Div 2 ATEX II 2GD	FM Class 1, Div 2, 3A, EHEDG, FDA ATEX II 2GD,	FM Class 1, Div 1 FM/CSA Class 1, Div 2 FM Class 1, Zone 1 ATEX II 2GD,		Drinking water, NSF/ANSI Standard 61, 1 Div 2

* Refer to technical data sheet for specific ratings based on process connection and liner material

Water & Wastewater industry: SITRANS F M for water processes.

The MAG 5000 transmitter and MAG 5100 W sensor are the perfect match for a cost-effective solution for all water and wastewater applications.

- Lack of moving parts ensures long-term performance
- Ebonite (hard rubber), EPDM or NBR liners guarantee consistent accuracy
- Highly resistant to a wide range of chemicals used in treatment plants
- Increased low-flow measurement for leak detection
- · Sensor suitable for burial and constant flooding
- NSF61 Drinking water approvals
- Built-in ground electrodes offers an alternative to grounding straps and grounding rings

Process optimization

The MAG 6000 with add-on communication platform makes it easy to integrate SITRANS F M into your applications, thus ensuring a fully integrated solution throughout the entire plant.

Realize the full benefits of automation

- Optimize management and process control
- · Ensure correct dosing and product quality
- Minimize process time and consumption of high-cost chemicals

The Siemens product range provides sensors from 1/12" to 78"

NSF

GSM/GPRS-Communication Module The wireless communication module is available as a built-in module for both the MAG 8000 and MAG 8000 CT flow transmitters. It allows for continual monitoring of water applications, even when on-the-go.

Battery-driven water meter for installation virtually anywhere

SITRANS F M MAG 8000 water meter

MAG 8000 is an affordable battery-driven solution that gives you the flexibility to install a reliable water meter virtually anywhere without sacrificing accuracy or performance. No mains power is required.

MAG 8000 delivers best-in-class performance to optimize water supply. It is engineered for superior leakage detection and for billing.

Intelligent, battery-driven operation

With a combination of high-efficiency technology and advanced power management, MAG 8000 can be trusted to deliver long-lasting, dependable operation for 6-10 years.

Outstanding performance

- Easy to install
- Minimum maintenance
- Superior measurement
- Intelligent information
- Open communication platform
- Minimum cost of ownership

Qualification Certificate

The SIMATIC PDM tool enables testing and verification of the flowmeter in the field. The resultant printed "Qualification Certificate" specifies all data defining the quality status of the measurement.

Sensor	MAG 8000 Standard
Transmitter type	Basic version for general purpose. Advanced version for additional information and functionality
Application	Abstraction and distribution networks
Sensor size	1″–48″ with EPDM liner
Enclosure	IP68 / NEMA 6P, compact and remote with connectors and factory-mounted cable
Display	Graphical display with touch keypad
Output	2 individual pulse outputs (including net flow volume)
Communication	Integrated standard IrDA interface, 3G/UMTS wireless communication module, RS 232 / RS 485 with MODBUS RTU protocol, encoder interface module (output) with sensus protocol
Power supply	Internal or external battery pack. 12-24 V AC / DC and 115-230 V AC with battery backup
Features	Data logger with selectable log interval up to 26 months. Advanced version only: Leakage detection, flow statistics and consumption profile, advanced diagnostics and self-check

Chemical industry: Designed to meet unique demands

As rapid globalization leads to ever-increasing competition, chemical companies are forced to develop products faster and at lower costs. Siemens understands the unique combination of challenges you face. By making us your trusted partner in process instrumentation, you can improve the time- and cost-efficiency of your chemical production processes and remain in compliance with the strict standards necessary to protect the environment and your health.

Putting our deep knowledge of the chemical industry into practice, Siemens has designed the SITRANS F M MAG 3100 electromagnetic flowmeter for exceptional performance despite the high operating pressures and harsh ambient conditions often found in chemical applications.

The MAG 3100 can be customized with a wide selection of liners and electrode materials and is available with a variety of international approvals for hazardous areas.

Industry-optimized liners

Siemens offers PTFE liners for temperatures up to 356 °F and PFA liners designed with stainless steel tube reinforcement to withstand vacuum conditions as well as temperatures up to 266 °F. Other liner options include ceramic, EPDM, Linatex, and hard or soft rubber.

SITRANS F M for the chemical industry MAG 6000 I (Ex de) MAG 5000 / 6000 MAG 3100 P MAG 3100 MAG 3100 HT MAG 1100 Cost-effective and Intrinsically safe Pre-configured for the For high-quality Flexible program to Robust design keypad and display low-maintenance for reliable flow measurement on pipe majority of chemical meet the requirements along with ATEX and sizes as low as 1/12 transmitter options applications, resulting of almost any chemical measurement at FM approvals for use in offering high accuracy in easy ordering and process, even in temperatures up to inch. Stainless steel hazardous areas. Full 356 °F. from ±0.2-0.4%. short lead times. harsh environments enclosure NAMUR compliance. and high-pressure applications.

Choice of grounding electrodes

A variety of grounding electrodes constructed in Hastelloy C, tantalum or platinum can be provided with PFA liners to save money and ensure a consistently stable measurement signal.

Flexible communication

The MAG 3100 takes flexibility one step further with reliable communication options such as Profibus PA/DP, HART, Modbus RTU, DeviceNet and Foundation Fieldbus. Bus communication can even be used simultaneously with analog/pulse outputs.

Sophisticated self-diagnostics

A comprehensive and easily readable menu of diagnostic functions (including self-check, error notifications and status logs) provides you with ongoing insight into the meter's performance.

Comprehensive certifications

As chemical applications often require material traceability and evidence of pressure resistance, the MAG 3100 is supplied with a material certificate for all pressurized and wetted parts and a pressure test certificate for metal work.

Built for the toughest applications

- Fully welded construction for maximum ruggedness
- Remote or compact transmitter installation
- Intrinsically safe rated input and output
- FM/CSA, ATEX, and IEC approvals
- MAG 6000 I fully NAMUR compliant: NE21, NE32, NE43, NE53 and NE70
- Actual flow and totalizers (forward, reverse and net totals)
- All sensors can be paired with MAG 5000, 6000 or 6000 I transmitter to fit every application

Siemens offers a full portfolio of process instrumentation, systems and services for the chemical industry. To learn more, visit www.siemens.com/chemicals

The pre-configured SITRANS F M MAG 3100 P is designed for high-performance flow measurement in even the most difficult chemical applications, including those characterized by high temperatures and pressures, abrasive materials, fluctuating media conditions and strict safety requirements.

Food and beverage industry: A higher standard of precision and purity

Siemens offers the food and beverage industry a competitive edge with flow solutions that more efficiently manage flow processes.

Our flowmeters are designed to meet the challenges in the tough environment of the food and beverage industry where extreme temperature changes, humidity, condensation, hosedown and CIP cleaning are ever present.

The sanitary solution

MAG 1100 F is specially designed for the food and beverage industry. It meets all sanitary requirements and is 3A and EHEDG certified. MAG 1100 F's obstruction-free performance is unaffected by the suspended solids, viscosity, and temperature challenges typically found in food and beverage processes.

Your guarantee for hygienic food safety

- AISI 316 stainless steel enclosure
- EHEDG, 3A approvals and FDA conformity
- Suitable for CIP and SIP cleaning
- IP67 / NEMA 4X rating
- Delivered with your specified connection; with its metal-tometal design, no grounding connection is required
- · Direct access to covered keypad and display

Process connections

With the unique and flexible adaptor concept, one flowmeter fits nearly every process connection. Adaptors are offered for clamp connection, threaded connection or weld-in type connection for direct welding into the process piping.

Pharmaceutical industry: For accuracy, sterility and confidence

With money-saving solutions that meet the highest standards of accuracy and hygienic design, Siemens helps customers in the pharmaceutical industry reduce the cost of high-purity flow measurements.

MAG 1100 F / MAG 1100

MAG 1100 F and MAG 1100 are ideally suited for pharmaceutical applications. Their obstruction-free performance minimizes the risk of deposits, and they are unaffected by the suspended solids, high viscosities and high temperatures typically found in pharmaceutical processes.

Hazardous areas

For installations in hazardous areas, the MAG 1100 F and MAG 1100 are available with FM and ATEX approvals in remote or compact design.

Additional benefits include

- Suitable for CIP and SIP cleaning
- High levels of chemical resistance
- Resistance to high temperatures and temperature shock
- Sanitary connections or AISI 316 flangeless wafer design
- High-confidence validation and accuracy in batch processing applications
- Custody transfer approvals available
- Meets FDA, 3A and EHEDG requirements
- User-friendly touch keypad and multilingual display

MAG 1100 F with stainless steel reinforced PFA liner ensures longterm stability and mechanical strength.

Maximum protection

There is a solution for every abrasive media application, but the choice of material is crucial to protect the flowmeter. Besides inlet protection rings, Siemens offers a wide range of liner and electrode materials. For applications involving abrasive media, Siemens recommends the LINATEX rubber liner. For applications with challenging process conditions, such as chemical media combined with high pressures and temperatures, the NOVOLAK liner is a highly resistant and costeffective alternative.

Pulp & paper and mining industries:

Pulp & paper industry

SITRANS F M flowmeters offer exceptional value for pulp and paper applications. They are well-suited for any flow installation, even those with high solids content, and are ready to take on your most difficult challenges.

Paper stock

The high-energy magnetic field generated with pulsed AC Transmag 2 technology provides a powerful signal ideal for measuring high concentrations of paper stock greater than 3%.

Mining industry

Rugged in design and unaffected by electrode noise, disturbances or vibration, Siemens electromagnetic flowmeters for the mining industry can be installed easily and virtually anywhere. All models produce accurate and repeatable results for improved performance.

Slurries

SITRANS F M meters produce powerful signals ideal for measuring high concentrations of slurries as a result of the high-energy magnetic field generated with pulsed AC technology.

Magnetic particles

Magnetic particles in the media will boost the magnetic field in an electromagnetic meter, often leading to misreadings. To overcome this, the TRANSMAG 2 is designed with a second compensating coil circuit.

LINATEX protection Minerals or particles bounce off the soft rubber liner instead of wearing it down.

Strong magnetic field TRANSMAG 2 flowmeter generates a strong magnetic field, a high excitation frequency, and a stable zero point. Providing an accurate, repeatable, fast-responding and stable flow signal.

Compensation coil

The TRANSMAG 2 offers, besides a very strong magnetic field, a second coil circuit to compensate for fluctuations in the magnetic field, caused by fluctuations in the main power supply or magnetic particles in the media.

Heavy-duty solutions for tough applications

TRANSMAG 2 AC flowmeter. A Siemens exclusive.

Thanks to its pulsed alternating field system, the TRANSMAG 2 is capable of measuring where conventional DC field technology cannot, including such applications as:

- Highly concentrated pulp stock
- Heavy mining slurries
- Mining slurries with magnetic particles

The AC technology generates a much stronger magnetic field within the sensor compared to DC technology. This is why it measures more reliably and with greater precision – even when the media has a high concentration of solids.

Thanks to its patented signal integration, the TRANSMAG 2 provides only the true flow measurement by removing unwanted electrode noise from the sensor's signal. The pulsed AC technology makes it possible to have a stable zero-point, resulting in measurements that are consistently accurate and reliable.

What else does the TRANSMAG 2 offer?

- Eliminates problems related to zero-point stability
- No movable parts that can wear and degrade measurement accuracy
- Electrode noise-resistant
- Heavy-duty industrial enclosure
- A wide choice of liner materials for different applications
- Automatic recognition of sensor type and calibration data as a result of SmartPLUG

Transmitter	TRANSMAG 2
Measuring principle	Pulsed alternating field AC
Enclosure	IP67 / NEMA 4X
Max. measuring error	0.5 % ± 1.2 mm/s
Display	2-line alpha numeric LCD with backlight
Inputs and outputs	1 analog, 1 digital-, 1 relay output (or 1 digital input)
Communication	HART, Profibus PA
Power supply	100–230 V AC

Measurement parameters and "fingerprint" data are stored in the SENSORPROM memory throughout the calibration process:

- Sensor information and identification
- Calibration parameters
- "Fingerprint" parameters
- Default flowmeter settings

Continuous accuracy. Verifiable confidence.

Calibration and traceability

To ensure continuously accurate measurement, all flowmeters from Siemens are verified and wet-calibrated before leaving the factory. The primary measuring instrumentation used in the calibration process is itself calibrated regularly by a nationally accredited laboratory, which provides a chain of measurement traceability to national and international standards, including NIST.

Siemens flow laboratories have been accredited to ISO17025. The calibration process is ISO9001 certified, which ensures high quality management of and control over the procedure.

- A calibration certificate is shipped with every Siemens sensor
- High-accuracy rigs with better than 0.1% calibration uncertainty
- Documentation for ISO 9001 and ISO 14001 management system

1. Transmitter test

2. Flowmeter insulation test

3. Sensor magnetism test

In-situ verification: Three simple steps

Through in-depth analysis, Siemens has identified the real-world parameters that influence the accuracy of flowmeter operation. Our unique, patented verification technique for SITRANS F M MAG 5000 and 6000 flowmeters checks these parameters in less than 20 minutes. The verificator provides the confidence you need in your flow measurements.

- In-situ performance check without interrupting the flowmeter installation
- No removal or installation expenses
- Saves money and resources through more accurate dosing
- Verifies new or existing installations
- Fully automated with predefined factory acceptance levels no manual setup or data input required

A verification consists of the following steps:

- 1. Transmitter test Flow simulation test that checks the whole electronic system
- 2. Flowmeter insulation test Ensures that the sensor flow signal is not affected by external influences
- 3. Sensor magnetism test Ensures that the magnetism behavior remains unchanged

Autom Teal 7	STRAN	S F M Monthligh	diam:				
Name Address Teal T	diam'r.		SCRANS F M Identification:				
Address Text 7	THUN	THÚ NL Name 8 Becor Cole No. 200511					
	Secur						
	Serecr	Sever Selet No. 17971 Mod					
	Ganet	Converter Cude No. 198502 Converter Serier No. 445902/NODE					
Phone	Dates						
Envi	Locally	Location Barrana Northung					
Attellit. Verification the real Convertier Berner Inscider Mariation	and a	Sec. 44					
Valueity Current Dutyo	4		Property	Output			
Department Presenting Article	Deviation	Dented	Artus	Devlation			
tubrals 4.600mA 4.800mA	8,29%	0.00044	0.100478	1.08%			
1.0ml 5.00mA 5.00ml	8.800ml 0.14%		1,00049	1.045			
3.0ms Ellobra Ellobra	0,10%	3.0000-12	3,003692	6,10%			
Carnet Dogat # 20%		Prequency Ove	PART OF A				
Converter Bettings		Benear, Deta	Chi i				
Bask		Ban	18	21964			
Five Deathin Product Law for Cut-of C30%		Cal Faster	8.0	101200			
Current Curput ON (8-20mA)		Controlline Pa	der 1.0				
Halay Cugut Chartent, and		Exclusion Fre	4 0	546			
Daylat Oxput OFF Prequency Range Hok Time Constant NA		Verification Statistics	ostalia (083 Tel	10000			
Puter with C.Std and		Desing No.		10			
Pube polarity Popula		Barbarow Very	- 13				
Totalizer 1 value before least 4820,754081		PC-Sofeant	Venion A.O.	e .			
Totalizer 1 value after text 4521,7988.1		Col. mate	20	16.01.38			
Treplacer 2 volue after text \$4,221021		Bullet Aller		10 DE 20			
				1.: * *			
Commenta							

Full verification report to confirm meter performance according to quality standards ISO 9001 and management standard ISO 14001 – as handover approval from contractor to end user.

By choosing Siemens you gain the benefit of:

A total solution provider - Siemens is the market leader in total solutions for process automation and instrumentation. More than merely a supplier, Siemens is integrated into the value chain, providing services from engineering to commissioning and service, locally or worldwide.

TIA – Totally Integrated Automation - Thanks to a common program environment, database and open communication systems, our products, systems and solutions can be totally integrated into any industry sector. Siemens TIA solutions are scalable and engineered for upgrade from standalone to automated system on demand.

The power of a single partner - Standardized concepts across technology and business areas make it easy to exploit Siemens synergies to the fullest, no matter the size or complexity of your task.

Future-proof product range - Continual innovation and technological leadership ensure future-proof automation and instrumentation systems.

Flexibility - Our breadth of technologies means we are always able to offer an optimal combination of sensor and transmitter, for any application in virtually any industry.

Accuracy - We test and calibrate all flowmeters in our certified laboratories. Siemens instrumentation always meets or exceeds international OIML standards, ensuring long-term accuracy and traceability.

Siemens has the vision and experience to cater to every industrial need. Let us provide you with the insight and innovative solutions to sharpen your competitive edge.

The best flowmeter for the job

Siemens has SITRANS F M flowmeter solutions to suit every task. Our				Technology							
				SITRANS F M							
	overview makes it easy to select the right product for your application.				AG 3100	AG 3100 P	AG 5100 W	AG 1100	AG 1100 F	RANSMAG 2	AG 8000
			examples	rarameter	Σ	Σ	Σ	Σ	Σ	Ħ	Σ
			Water (warm/cold) Wastewater Acids Beverage Soft drinks Fruit juices	Volume flow	1	~	1	1	1	1	1
				High accuracy	1	~	✓	1	✓		✓
		ity.		High temperature	1	1	1	✓			
		scos 0 cSi		High pressure	1						
		Low vi < 10		Hygienic					1		
	e			Large diameter	1		1			1	1
ids	ids uctiv			Battery							1
Flu Condt	ondi			Custody transfer	1		1		1		1
	U		Food: Yogurt Dressings	Volume flow	1	~	1	1	1		
		gh viscosity > 100 cSt		High accuracy	~	~	~	1	✓		
				High temperature	1	~		1			
			Sludge: Pulp & paper	High pressure	1						
		Ξ		Hygienic					1		
		Mining slurry	Large diameter	1							

Unique features

Communication	SENSORPROM	Touchpad	In-situ verification
Communication modules make flowmeter networking installation and configuration easy. Compatible with virtually every communication standard.	 During the calibration process, measurement parameters and "fingerprint" data are stored in the SENSORPROM memory: Sensor information and identification Calibration parameters Fingerprint parameters Default flowmeter settings 	Touch response keypad with LED light feedback for safe and easy operation.	 The SITRANS F M verificator guarantees continuous accurate measurement. Correct revenue metering Confidence in process and product quality Assurance of proper installation ISO 9001 and ISO 14001

Measuring everything that matters: usa.siemens.com/pi

Siemens Process Instrumentation offers best-in-class measurement and seamless integration into your automation system. We are the total solution provider for flow, level, pressure, temperature, weighing, positioners and more.

More information: info.us@siemens.com

Follow us on: https://twitter.com/siemensii www.facebook.com/siemensii www.youtube.com/siemens www.usa.siemens.com/pablog

Siemens Industry, Inc. Process Industries and Drives 100 Technology Drive Alpharetta, GA 30005 1-800-365-8766

Subject to change without prior notice Order No.: PIBR-0A450-0419 All rights reserved Printed in USA © 2019 Siemens Industry, Inc.

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be registered trademarks of Siemens AG. All other designations in this document may represent trademarks whose use by third parties for their own purposes may violate the proprietary rights of the owner.

