

SIEMENS



Dedicated for the chemical industry

SITRANS F M MAG 3100 P:

The electromagnetic flowmeter solution with devoted features.

Process Instrumentation

usa.siemens.com/mag

The best choice for the chemical industry



The robust SITRANS F M MAG 3100 P is designed to meet the most challenging requirements and applications within the chemical industry. Choose the reliable Siemens solution offering pre-configuration, comprehensive diagnostics and outstanding service, worldwide.

Select a reliable partner

- Proven reliability with more than 35 years of experience in the flow market
- Offering complete solutions (known as Totally Integrated Automation)

Maximum safety and reliability

- FM/CSA and ATEX
- Reliable and flexible communication via HART, Profibus and Foundation Fieldbus
- Reliability as the SENSORPROM stores data automatically as a "fingerprint"

Worldwide service and support

- Represented in more than 190 countries and available 24 hours a day, 365 days a year
- Extensive knowledge within the chemical business team
- Dedicated training available on demand

The perfect fit



Siemens flowmeters have a robust design satisfying the unique requirements for flowmeters in the chemical industry



Rely on Siemens as your partner

The chemical industry is characterized by high application demands and tough conditions, including:

- Hazardous areas
- Harsh ambient conditions
- Aggressive acids and bases
- Abrasive materials
- Varying media conditions

With conditions like this, you need a partner who knows your business, and can offer the best solutions for your application. Through constant innovations, we offer reliable and profitable solutions for all your process automation tasks – whether that is a single measurement application or a complete system solution.

Designed and pre-configured for chemical applications

SITRANS F M MAG 3100 P is standardized and designed to cover the majority of chemical applications and conditions:

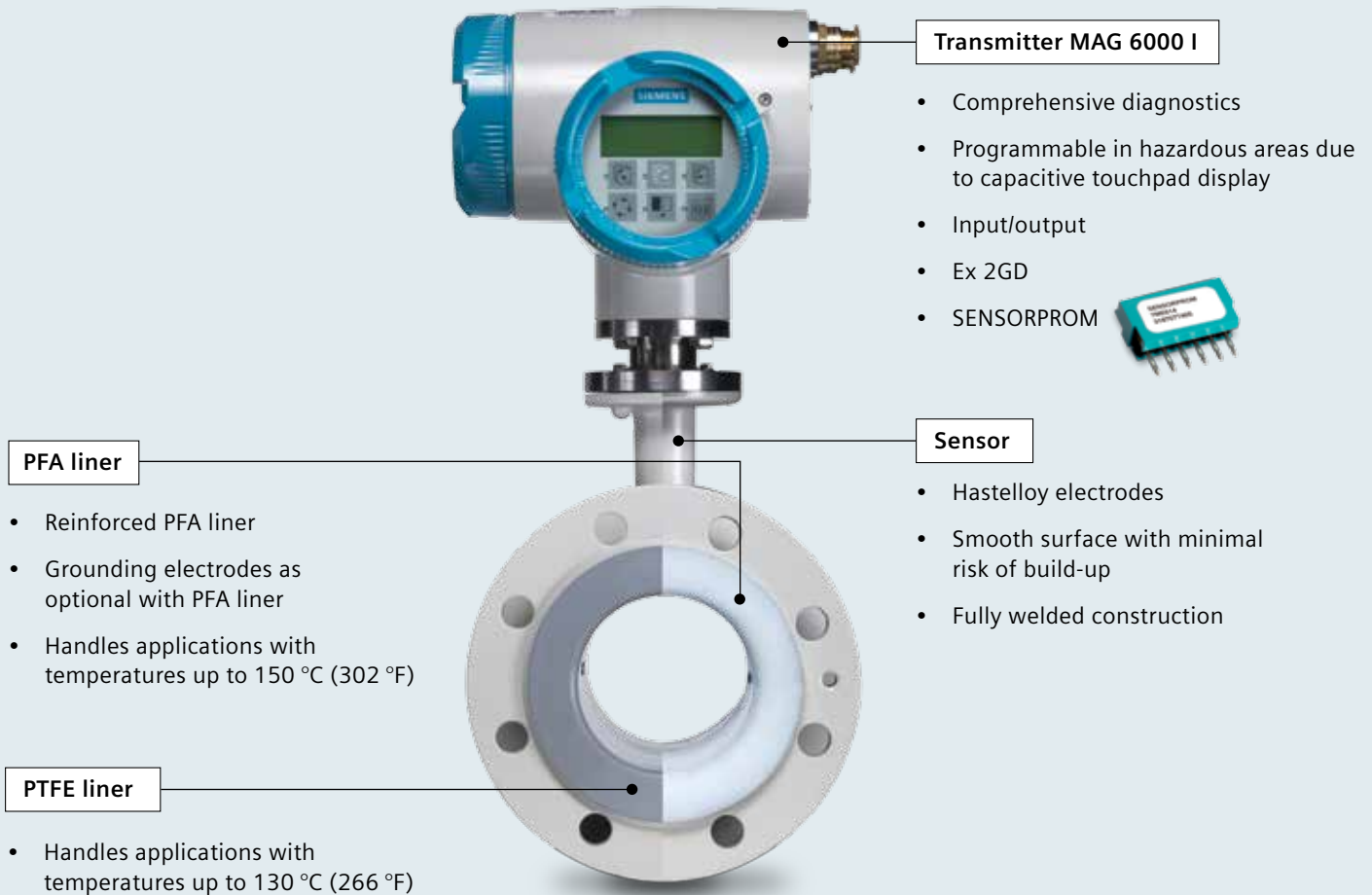
- Hazardous areas
- Strict safety standards
- High temperatures
- High pressure
- Acids and bases
- Abrasive resistance
- Namur compliance (NE21, NE131)



For additional applications in the chemical industry SITRANS F M MAG 3100 family offers a variety of configurations.

SITRANS F M MAG 3100 family		
		
MAG 3100 P	MAG 3100 HT	MAG 3100
Short lead time	Temperatures above 150 °C (302 °F)	Flexible product program

The optimized and dedicated solution



Comprehensive diagnostics

The diagnostic function offers comprehensive identification in easily readable text (including self-check, error messages and status logs).

Grounding electrodes

Siemens can provide Hastelloy grounding electrodes on PFA liners saving money, minimizing installation time and lowering risk of failure due to maintenance.

Robust design

Siemens flowmeters offer a robust design that lasts in harsh and abrasive environments, guaranteeing a long service life and low cost of ownership.

Enhanced reliability with SENSORPROM

The unique SENSORPROM memory unit features the highest level of safety and reliability with factory preprogramming and automatic storage function. This ensures fast and easy transmitter replacement without loss of data, reduced accuracy or downtime.

Industry-optimized liners

Siemens offers both PTFE and PFA liners for high temperatures and with high chemical resistance in a full range of sizes.

PTFE is the right choice for applications without the risk of vacuum, and with temperatures up to 130 °C (266 °F). The PFA liner has a reinforced stainless steel tube which makes it perform extremely well under vacuum conditions and during temperature fluctuations up to 150 °C (302 °F)


Modular platform with flexible selection

Different flowmeter options are available to suit any application, guaranteeing the perfect fit. A wide variety of communication modules and approvals are also available.

Products for hazardous area, Zone 1 and Div 1 (FM, CSA, ATEX)



MAG 3100 P



MAG 6000 I (Ex de)

Approvals

FM: Class I, Div1 (compact)

CSA/FM: Class I, Zone 1

IEC: Ex de [ia] T3-6

ATEX: 2GD EEx de [ia] T3-6

Products for hazardous area, Zone 2, Div 2 (FM, CSA, ATEX)



MAG 3100 P (PFA+PTFE)



MAG 5000/MAG 6000



MAG 6000 I

Approvals

FM: Class I, Div 2

CSA: Class I, Div 2



SITRANS F M MAG 3100 P with SITRANS F M MAG 6000 I		
Liner	PFA	PTFE
Medium temperature	-20 to 150 °C (-4 to 302 °F) ¹⁾	-20 to 130 °C (-4 to 266 °F)
Nominal sizes	15 to 150 mm / 1/2" to 6"	15 to 300 mm / 1" to 12"
Accuracy	0.2% ±1 mm/s	
Power supply	24 V DC, 115 to 230 V AC, 18 to 30 V AC	
Ambient temperature	From -20 to 60 °C (-4 to 140 °F)	
Enclosure rating	IP67 (NEMA 4X)	
Electrode	Hastelloy C22 ²⁾	
Grounding electrode	Optional	N/A

¹⁾ Temperature above 150 °C (302 °F) available with the MAG 3100H T
²⁾ Tantalum and platinum electrodes available with the MAG 3100 family

SITRANS F M MAG 3100 P

A proven solution with high chemical resistance, ideal for the tough, challenging applications of the chemical industry

More information:
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