SIEMENS

Datasheet for

SITRANS FM MAG 5100 W Electromagnetic flow sensor, flanged, diameter DN 15 to DN 1200 (1/2" to 48"). Suitable for volume flow measurement of liquids (conductive) , for applications in water abstraction, water & wastewater treatment, water distribution networks, custody transfer metering. Successor product available. Please consider ordering the product SITRANS FMS500. If you need assistance please contact your Siemens sales representative.

Ordering data: **7ME65203TJ122AA2**

F55

General

Manufacturer	Siemens
Supplier	Siemens
Brand name	SITRANS F M MAG 5100 W
Type designation	SITRANS FM MAG 5100 W Electromagnetic flow sensor, flanged, diameter DN 15 to DN 1200 (1/2" to 48"). Suitable for volume flow measurement of liquids (conductive) , for applications in water abstraction, water & wastewater treatment, water distribution networks, custody transfer metering. Successor product available. Please consider ordering the product SITRANS FMS500. If you need assistance please contact your Siemens sales representative.
Net weight	17.1 kg
Slogan	SITRANS F M - modularity for every application

Mode of operation and application

Measuring principle	electromagnetic induction

Operating conditions

Pressure loss at flow rate (maximum)	25 mbar

Process medium

Medium temperature	-10 °C...+70 °C

Environmental conditions

Ambient temperature during operation	-40 °C...+70 °C

Degree of protection

IP rating	IP67
NEMA Enclosure Type	NEMA 4X, NEMA 6

Electromagnetic compatibility EMC

Standard for EMC	2004/108/EC

Structural Design

Mechanical design

Design of the device	separated version, sensor separated
Model of the measuring pipe	Conical

Process connection

Design	flange
Standard	AWWA C-207
Nominal size	4"
Pressure rating	Class D
Model of the sealing surface	Flat face

Material

Process connection

Material	carbon steel

Enclosure

Material of the sensor	Carbon steel
Coating of the sensor (outside)	Two-component epoxy coating

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Coating thickness of the sensor (minimum)	150 µm

Sensor

Material of the measuring tube	stainless steel
Material number of measuring tube according to DIN EN 10027-2	1.4301
Material number of measuring tube according to AISI	304
Material of the liner	ethylene-propylene-rubber (EPDM)

Miscellaneous

Material of the electrodes	nickel alloy (Hastelloy C276)
Material of the terminal box	Fibre glass reinforced polyamide

Dimensions

Installation length	250 mm

Electrical connections

Number of cable entries	2
Design of the cable entry	1/2" NPT

Certificates and approvals

Reliability (MTBF)

MTBF	472 a
Standard for MTBF	SN 29500
Determination procedure	number of registered failures
Applicability	Measuring device

The information provided in this data sheet contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.