

Datasheet for

Ordering data:

General	
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Manufacturer	Siemens
Supplier	Siemens
Product designation	Electromagnetic flowmeter
Brand name	SITRANS FMT020
Slogan	Siemens trans ... t the future

Mode of operation and application	
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Measuring principle	Electromagnetic with pulsed constant field
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Output	
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Current output

Signal range	0 ... 20 mA, 4 ... 20 mA
Time constant for smoothing	0,1 s...100 s
Load (maximum)	470 Ohm

Digital output

Pulse output

Short-circuit monitoring, at active output	Short-circuit is fused internally
Nominal value of the output voltage, at active output	24 V
Output voltage, at passive output	3 V...30 V
Load	200 Ohm...10.000 Ohm
Time constant for smoothing	0,1 s...100 s
Current carrying capacity, at passive output	110 mA

Frequency output

Time constant	0,1 s...100 s
Pulse-pause-ratio	50 %
Signal frequency	0 kHz...10 kHz

Relay output

Switching capacity voltage, AC (maximum)	42 V
Switching capacity current, AC (maximum)	2 A
Switching capacity voltage, DC (maximum)	24 V
Switching capacity current, DC (maximum)	1 A
Time constant for smoothing	0,1 s...100 s

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Operating conditions

Environmental conditions

Ambient temperature during operation	-40 °C...+65 °C
Ambient temperature during storage	-40 °C...+70 °C

Degree of protection

IP rating	IP66, IP67
NEMA Enclosure Type	NEMA Type 4X, NEMA Type 6

Structural Design

Mechanical design

Material

Enclosure

Material of the sensor	Polycarbonate (PC)
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Mounting

Type of mounting	compact mounting
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Display and operating controls

Display	with display
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Power supply

Electrical

Voltage type	DC
Supply voltage, DC	12 V...42 V

Certificates and approvals

Reliability (MTBF)

MTBF	66 Years
Standard for MTBF	SN 29500
Determination procedure	Number of registered failures
Applicability	Measuring transmitter

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.