SIEMENS

Datasheet for

SITRANS P200 Transmitters for pressure and absolute pressure for general applications Non-linearity: 0,25 percent (typically) wetted parts material:ceramics, stainless steel plus sealing material; non-wetted parts material: stainless steel

Ordering data: 7MF15653BB003AA1

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	gauge pressure transmitter
Brand name	SITRANS P200
Type designation	SITRANS P200 Transmitters for pressure and absolute pressure for general applications Non-linearity: 0,25 percent (typically) wetted parts material:ceramics, stainless steel plus sealing material; non-wetted parts material: stainless steel
Net weight	0.2 kg
Slogan	The compact pressure transmitter

Mode of operation and application

Measuring principle	piezo-resistive

Input

Measurand	Pressure, relative
Measuring range, relative	0 bar...1.6 bar
Measuring span (maximum)	1.6 bar

Output

Current output

Signal range	4 ... 20 mA
Output current	3.6 mA...22 mA
Load (maximum)	1,150 Ohm

Operating conditions

Process temperature	-15 °C...+125 °C

Pressure

Operating pressure, relative	-0.4 bar...4 bar

Environmental conditions

Ambient temperature during operation	-25 °C...+85 °C
Ambient temperature during storage	-50 °C...+100 °C
Relative humidity with condensation (maximum)	100 %

Degree of protection

IP rating	IP67

Electromagnetic compatibility EMC

Standard for EMC	EN 61326-1, EN 61326-2, EN 61326-3

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Design

Mechanical design

Design of the housing	single chamber housing
Model of the measuring transmitter	compact version, sensor integrated

Process connection

Design	male thread
Standard	EN 837-1
Nominal size	G1/2"B

Material

Process connection

Material	stainless steel
Material number according to DIN EN 10027-2	1.4404
Material number according to AISI	316L

Housing

Material	stainless steel
Material number according to DIN EN 10027-2	1.4404
Material number according to AISI	316L

Separation & Measuring Membrane

Material of the measuring membrane	ceramic (Al2O3)

Miscellaneous

Material of the gasket between sensor and housing	fluorocarbon-rubber (FKM/FPM)
Material brand name of the gasket between sensor and housing	Viton
Material of the connection cable	polyvinyl chloride (PVC)

Electrical connections

Connection technology	2-wire technology
Design of the electrical connection point	cable
Length of the connection cable	2 m
Number of conductors of the connection cable	2
Standard for safety equipment	IEC 61010-1

Power supply

Electrical

Voltage type	DC
Nominal voltage, DC	24 V
Supply voltage, DC	7 V...33 V

Certificates and approvals

Verification of suitability	CE
Verification of suitability for Russia	GOST-R
Verification of suitability for Canada	Underwriters Laboratories (UL)
Verification of suitability for USA	Underwriters Laboratories (UL)
Verification of suitability for drinking water	ACS, France
Marine approval	American Bureau of Shipping (ABS), Bureau Veritas (BV), Det Norske Veritas (DNV), Germanischer Lloyd (GL), Lloyd‘s Register of Shipping (LR)
Pressure device category according to PED 97/23/EC	Article 3.3
Fluid group according to PED 97/23/EG	gas group 1, liquid group 1

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Reliability (MTBF)

MTBF	1,066 a
Standard for MTBF	SN 29500
Determination procedure	number of registered failures
Applicability	Measuring device