SIEMENS

Datasheet for

SITRANS P220 Transmitters for pressure and absolute pressure fully welded version for high-pressure and refrigerant applications Non-linearity: 0,25 Percent (typically) wetted parts material: stainless steel; non-wetted parts material: stainless steel

Ordering data: **7MF15673CB001AA1**

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	gauge pressure transmitter
Brand name	SITRANS P220
Type designation	SITRANS P220 Transmitters for pressure and absolute pressure fully welded version for high-pressure and refrigerant applications Non-linearity: 0,25 Percent (typically) wetted parts material: stainless steel; non-wetted parts material: stainless steel
Article number	7MF15673CB001AA1
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

Measuring range, relative (maximum)	16 bar

Measuring span

Measuring span (maximum)	16 bar

Output

Current output

Signal range	4 ... 20 mA
Output current	
Output current (minimum)	3,6 mA
Output current (maximum)	22 mA
Load (maximum)	1.150 Ohm

Operating conditions

Medium temperature	
Medium temperature (minimum)	-30 °C
Medium temperature (maximum)	120 °C

Pressure

Operating pressure, relative	
Operating pressure, relative (minimum)	-1 bar
Operating pressure, relative (maximum)	40 bar

Environmental conditions

Ambient temperature during operation	
Ambient temperature during operation (minimum)	-25 °C
Ambient temperature during operation (maximum)	85 °C
Ambient temperature during storage	

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Ambient temperature during storage (minimum)	-50 °C
Ambient temperature during storage (maximum)	100 °C
Relative humidity with condensation (maximum)	100 %

Degree of protection

IP rating	IP65

Electromagnetic compatibility EMC

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

Structural Design

Mechanical design

Design of the device	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

Enclosure

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	stainless steel
Material number of the measuring membrane according to AISI	446
Material number of the measuring membrane according to DIN EN 10027-2	1.4016

Electrical connections

Connection technology	2-wire technology
Design of the electrical connection	plug, 2-pole
Standard of the electrical connection	EN 175301-803
Standard for safety equipment	IEC 61010-1

Display and operating controls

Display	without display

Power supply

Electrical

Voltage type	DC
Nominal voltage, DC	24 V

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Supply voltage, DC	
Supply voltage, DC (minimum)	7 V
Supply voltage, DC (maximum)	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	Lloyd's Register of Shipping (LR)
Marine approval	Germanischer Lloyd (GL)
Marine approval	American Bureau of Shipping (ABS)
Marine approval	Bureau Veritas (BV)
Marine approval	Det Norske Veritas (DNV)
Pressure device category according to PED 97/23/EC	Article 3.3
Fluid group according to PED 97/23/EG	gas group 1
Fluid group according to PED 97/23/EG	liquid group 1

Reliability (MTBF)

MTBF	1.066 a
Standard for MTBF	SN 29500
Determination procedure	number of registered failures
Applicability	Measuring device

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