

Datasheet for

SITRANS P Transmitter Compact for pressure and absolut pressure for food, pharmaceu- ticals and biotechnology, with diaphragm flush at front. 2-wire system, process tempera- ture up to 140 deg. Cel., accuracy 0.2 % of f.s.v. output signal: 4...20 mA,

Ordering data: 7MF80101AG311CA1

	General
Manufacturer	
Manufacturer	Siemens
Supplier Product designation	Siemens
Product designation Brand name	gauge pressure transmitter SITRANS P Compact
Type designation	SITRANS P Compact SITRANS P Transmitter Compact for pressure and absolut pressure for food, pharmaceu- ticals and biotechnology, with diaphragm flush at front 2-wire system, process tempera- ture up to 140 deg. Cel., accuracy 0.2 of f.s.v. output signal: 420 mA,
Net weight	0.2 kg
Slogan	The specialist for basic measuring requirements
Mode of	f operation and application
Measuring principle	piezo-resistive
	Input
Measurand	Pressure, relative
leasuring range	
Measuring range, relative	0 mbar1 bar
leasuring span	
Measuring span (maximum)	1 bar
Medodinig opan (maximani)	1 501
	Output
Current output	
Signal range	4 20 mA
Output current	3.6 mA30 mA
Load (maximum)	200 Ohm
C	Operating conditions
Medium temperature	-10 °C+140 °C
Pressure	
Operating pressure, relative	-1 bar10 bar
nvironmental conditions	
Ambient temperature during operation	-10 °C+70 °C
Ambient temperature during operation Ambient temperature during storage	-10 °C+90 °C
Relative humidity with condensation (maximum)	100 %
Degree of protection	
IP rating	IP65
ii radiig	11 00

This is only an extract from the technical data. For more details, see the FI 01 catalog or the Industry Mall. Creation date: 06/20/2022



Datasheet for

SITRANS P Transmitter Compact for pressure and absolut pressure for food, pharmaceu- ticals and biotechnology, with diaphragm flush at front. 2-wire system, process tempera- ture up to 140 deg. Cel., accuracy 0.2 % of f.s.v. output signal: 4...20 mA,

Ordering data: 7MF80101AG311CA1

Electromagnetic compatibility EMC

Standard for EMC EN 61326-1

Structural Design

Mechanical design

Design of the device single chamber housing

Model of the measuring transmitter compact version, sensor integrated

Process connection

Design cone spigot with union nut

Design Dairy coupling
Standard DIN 11851
Nominal size DN 50
Pressure rating PN 25

Material

Process connection

Material stainless steel

Material number according to DIN EN 10027-2 1.4404

Material number according to AISI 316L

Material number according to UNS S 31603

Grade according to DIN EN 10027-1 X2CrNiMo17-12-2

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 separation membrane stainless steel

Material number of the separation membrane according 1.4404

to DIN EN 10027-2

Material number of the separation membrane according 316L

to AISI

Material number of the separation membrane according S 31603

to UNS

Grade of the separation membrane according to EN X2CrNiMo17-12-2

10027-1

Miscellaneous

Filling liquid in the measuring cell Food-grade-oil

Material of the nameplate plastic

Electrical connections

Connection technology 2-wire technology
Design of the electrical connection plug, 2-pole

Design of the electrical connection A

Material of the electrical connection of the enclosure polyamide (PA)
Standard of the electrical connection EN 175301-803

Power supply

Electrical

Voltage type DC

Nominal voltage, DC 24 V

Supply voltage, DC This is only an extract from the technical data. For more details, see the FI $\overline{01}$ catalog or the Industry Mall. Creation date: 06/20/2022



Datasheet for

SITRANS P Transmitter Compact for pressure and absolut pressure for food, pharmaceuticals and biotechnology, with diaphragm flush at front. 2-wire system, process temperature up to 140 deg. Cel., accuracy 0.2 % of f.s.v. output signal: 4...20 mA,

Ordering data: 7MF80101AG311CA1

Certificates and approvals		
Verification of suitability	CE	
Pressure device category according to PED 97/23/EC	Article 3.3	
Conformity rating procedure according to PED 97/23/EG	Module H	
Fluid group according to PED 97/23/EG	gas group 1, liquid group 1	
Reliability (MTBF)		
MTBF	557 a	
Standard for MTBF	SN 29500	
Determination procedure	Calculation with component load	
Reference temperature	40 °C	
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.

This is only an extract from the technical data. For more details, see the FI 01 catalog or the Industry Mall. Creation date: 06/20/2022