

Transducer SITRANS P220 for pressure



product type designation	
manufacturer's name	Siemens
supplier name	Siemens
product designation	gauge pressure transmitter
product brand name	SITRANS P220
Slogan 1	The compact pressure transmitter
physical measuring principle	piezo-resistive
inputs	
measured variable	Pressure, relative
mechanical data	
pressure measuring range	
• as relative pressure	0 ... 4 bar
largest pressure measuring span	4 bar
operating pressure	
• as relative pressure	-1 ... +20 bar
ambient conditions	
process temperature	-40 ... +135 °C
ambient temperature	
• during operation	-25 ... +85 °C
• during storage	-50 ... +100 °C
relative humidity / with condensation / maximum	100 %
protection class IP / of the enclosure	IP67
connection method	
design of the process connection	male thread
standard / for process connection	EN 837-1
nominal size / of the process connection	G1/2 inch B
type of connection technology	M12
type of electrical connection	Fixcon
number of the plug contacts / of the electrical connection	4
design rules / for CAx connection symbols	
• for type of measurement	relative
design rules / for CAx connection symbols / for explosion protection	no
design rules / for CAx connection symbols / for galvanic isolation	no
connection cable version	Unshielded
standard	
• for electrical connection	IEC 61076-2-101
• for safety	IEC 61010-1
design, dimensions and weights	

design of the measuring transducer	compact version, sensor integrated
display version	without display
design of the housing	single chamber housing
material / of the process connection	stainless steel
material number / of the process connection • according to EN 10027-2 • according to AISI	1.4404 316L
material / of the enclosure	stainless steel
material number / of the enclosure • according to EN 10027-2 • according to AISI	1.4404 316L
material / of the measurement cell membrane	stainless steel
material number / of the measurement cell membrane • according to EN 10027-2	1.4016
additional information	
material / of the seal between sensor and housing	welded
standards, specifications, approvals	
certificate of suitability	CE
certificate of suitability • as approval for Canada • as approval for USA • drinking water approval	Underwriters Laboratories (UL) Underwriters Laboratories (UL) ACS, France
Marine classification association • French marine classification society (BV) • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS)	Yes Yes Yes Yes Yes
pressurized device category / according to Directive DGRL 97/23/EC	Article 3.3
fluid group / according to Directive DGRL 97/23/EC	gas group 1, liquid group 1
MTBF	1 066 a
standard / for MTBF determination	SN 29500
measuring procedure / for MTBF determination	Number of registered failures
range of validity / for MTBF determination	Measuring device

last modified:

3/5/2026 