Pressure Measurement

Pressure transmitters

Single-range transmitters for general applications



SITRANS P220 for gauge pressure

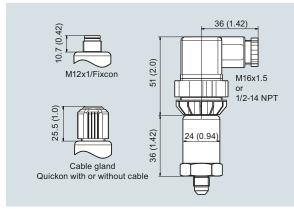
STRANS P 220 pressure transmitters for gauge pressure, high-pressure and refrigeration applications, fully-welded version Accuracy typ. 0.25 % Wetted parts materials: stainless steel Vor-wetted parts materials: stainless steel Process connection 30% male per EN 837-1 (1% BSP male) (standard for metric pressure ranges mbar, bar) 30% male per EN 837-1 (1% BSP male) (standard for metric pressure ranges mbar, bar) 30% male per EN 837-1 (1% BSP male) 10	Selection and ordering data	Article No. Order code
Process connection	SITRANS P 220 pressure transmitters for gauge pressure, high-pressure and refrigeration applications, fully-welded version Accuracy typ. 0.25 %	
Process connection 3½* male per EN 837-1 (½* BSP male) (standard for metric pressure ranges mbar, bar) 3½* male per EN 837-1 (½* BSP male) 3½* male per EN 837-1 (½* BSP male) 4*-18 NPT male (standard for pressure ranges inH₂O and psi) 4*-18 NPT male (standard for pressure ranges inH₂O and psi) 4*-18 NPT female 4*-14 NPT male 5*-14 NPT female 6*-14 NPT female 10*-20 UNF female 20*-20 UNF female 20	Wetted parts materials: stainless steel	
A B B B B B B B B B B B B B B B B B B B	Non-wetted parts materials: stainless steel	
### male thread and G1/8" female thread ### male per EN 837-1 (1/4" BSP male) ### 18 NPT male (standard for pressure ranges inH₂O and psi) ### 18 NPT male (standard for pressure ranges inH₂O and psi) ### 18 NPT male (Standard for pressure ranges inH₂O and psi) ### 18 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 19 NPT male (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) ### 10 NPT female (Only female fema	Process connection	
#"-18 NPT female #"-14 NPT male #"-14 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) #"(16"-20 UNF female #"(14" to DIN 3852 Form E #"(14" to DIN 3852 Form E #"(15" to DIN 3852 Form E #"(1	G½" male per EN 837-1 (½" BSP male) (standard for metric pressure ranges mbar, bar) G ½" male thread and G1/8" female thread G ¼" male per EN 837-1 (¼" BSP male) 7/16"-20 UNF male	B C
Version Standard version Further designs Supplement the Article No. with *-Z* and add Order code. Quality test certificate, 5-point factory calibration (IEC 60770-2) not possible for measuring ranges > 0 600 bar/0 8 702 psi)	'¼"-18 NPT female ½"-14 NPT male ½"-14 NPT female (Only for measuring ranges ≤ 60 bar (870 psi)) 7/16"-20 UNF female M20x1.5 male G1/4" to DIN 3852 Form E G1/2" to DIN 3852 Form E	F G H J P Q R
Standard version Further designs Supplement the Article No. with "-Z" and add Order code. Quality test certificate, 5-point factory calibration (IEC 60770-2) not possible for measuring ranges > 0 600 bar/0 8 702 psi)	Special version	Z P1Y
Supplement the Article No. with "-Z" and add Order code. Quality test certificate, 5-point factory calibration (IEC 60770-2) not possible for measuring ranges > 0 600 bar/0 8 702 psi)	Version Standard version *	1
Quality test certificate, 5-point factory calibration (IEC 60770-2) not possible for measuring ranges > 0 600 bar/0 8 702 psi)	Further designs	
Quality test certificate, 5-point factory calibration (IEC 60770-2) not possible for measuring ranges > 0 600 bar/0 8 702 psi) Daygen version, free of oil and degreased (not in conjunction with explosion protection version) With CRN and cSA _{us} Ex approval (only for measuring ranges 0 30 psi bis 0 8 700 psi) Order code E21 required for complete configuration with CRN and cSSA _{us} Ex approval	Supple <mark>ment the A</mark> rticle No. with "-Z" and add Order code.	
Oxygen version, free of oil and degreased (not in conjunction with explosion protection version) With CRN and cCSA _{us} Ex approval (only for measuring ranges 0 30 psi bis 0 8 700 psi) Corder code E21 required for complete configuration with CRN and cCSA _{us} Ex approval	Quality test certificate, 5-po <mark>int facto</mark> ry calibration (IEC 60770-2) (not possible for measuring ranges > 0 600 bar/0 8 702 psi)	C11
With CRN and cCSA _{us} Ex approval (only for measuring ranges 0 30 psi bis 0 8 700 psi) Order code E21 required for complete configuration with CRN and CSA _{us} Ex approval	Oxygen version, free of oil and degreased (not in conjunction with explosion protecti <mark>on</mark> version)	E10
Order code E21 required for complete configuration with CRN and CSA _{us} Ex approval	With CRN and _c CSA _{us} Ex approval (only for measu <mark>ring</mark> ranges 0 30 <mark>psi</mark> bis 0 8 7 <mark>00 p</mark> si)	E21
	* Order code E21 required for complete configuration with CHN and CCSA _{US} Ex approval	

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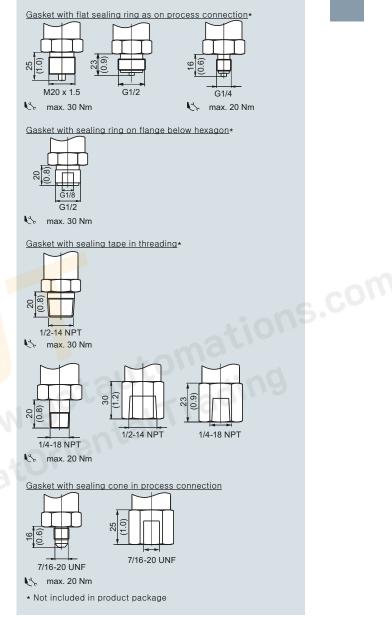
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Dimensional drawings



SITRANS P220, electrical connections, dimensions in mm (inch)



SITRANS P220, process connections, dimensions in mm (inch)

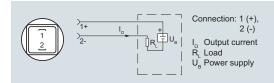
Pressure Measurement

Pressure transmitters

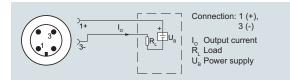
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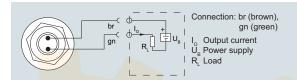
Schematics



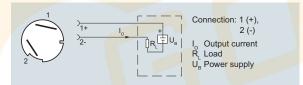
Connection with current output and connector per EN 175301



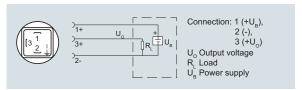
Connection with current output and device plug M12x1



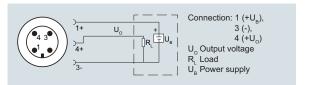
Connection with current output and cable



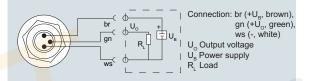
Connection with current output and cable quick screw connection Quick-



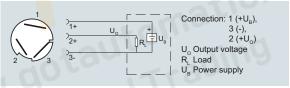
Connection with voltage output, ratiometric output and plug according to EN 175301



Connection with voltage output, ratiometric output and device plug M12x1



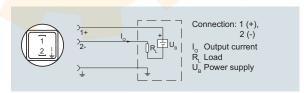
Connection with voltage output, ratiometric output and cable



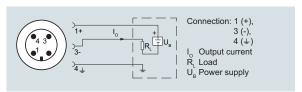
Connection with voltage output, ratiometric output and Quickon fast cable termination

Version with explosion protection: 4 ... 20 mA

The grounding connection is conductively bonded to the transmitter enclosure



Connection with current output and connector per EN 175301 (Ex)



Connection with current output and device plug M12x1 (Ex)

บริษัท เกรทโอเรียนเต็ล เทรดดิ้ง จำกัด เลขที่ 1049 ถนนรวมธรรม ตำบลคอหงส์ อำเภอหาดใหญ่ จังหวัดสงขลา 90110 074-300212-4





