

JUMO dTRANS p20 Ex d

Process pressure transmitter with explosion-proof enclosure

Description

The pressure transmitter with HART interface combines maximum precision with simple operation. It is used to measure the relative or absolute pressures of gases, vapors, and liquids. The integrated LCD display shows the measured values and device data.

The pressure transmitter with flameproof enclosure can be installed up until zone 0. The housing and sensors are manufactured from high-grade stainless steel. Various flush-mounted process connections are available for applications with hygienic requirements.

Diaphragm seals can also be connected for specific process technology applications (see data sheets 409772 to 409784).

The transmitter is programmable and therefore readily adaptable to a variety of different measurement tasks. An easy-to-use setup program is available as an accessory to enable operation via the interfaces. A rotary knob makes manual operation on-site very convenient and quick.

The pressure transmitter with 4 to 20 mA and HART protocol was evaluated with regard to functional safety and is certified by exida according to IEC 61508 -1/-2/-3:2010. These measuring devices are suitable for monitoring process level and process pressure up to SIL2. Further details can be found in the Safety Manual.

For the „Ex ia“ explosion protection version, see data sheet 403025.

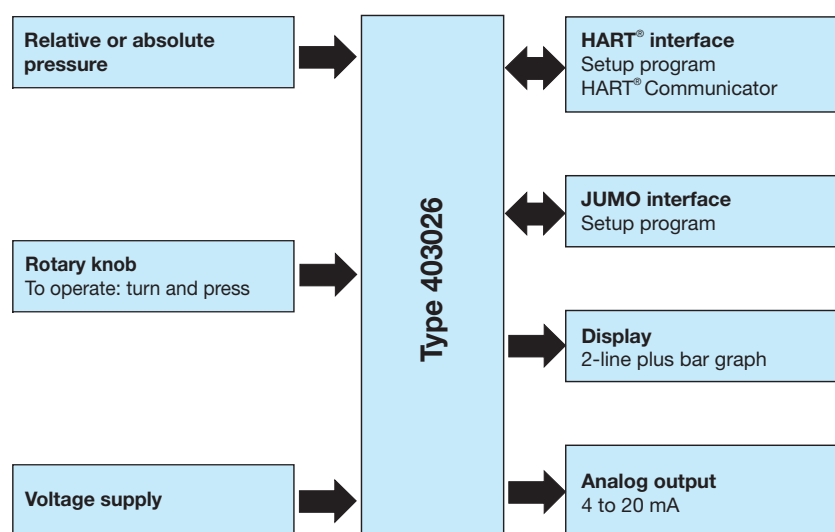
For the differential pressure version, see data sheets 403022 and 403023.



Type 403026



Block diagram



Special features

- Stainless steel case
- SIL certified (exida)
- HART interface
- Explosion protection Ex d (gas and dust) according to ATEX and UKEX
- Linearity 0.05 %
- Turn down: 1:50
- Simple operation with rotary knob
- Setup program
- LCD display with bar graph
- Display scaling with a choice of measuring units
- Display of sensor temperature
- Display of minimum and maximum pressures
- Current-generator function

Approval marks and certificates



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Approval marks and certificates

	Designation Testing agency Certificate no. Inspection basis Valid for	ATEX Eurofins Electrosuisse Product Testing AG SEV 10 ATEX 0127 X EN 60079-0, EN 60079-1, EN 60079-26, EN 60079-31 Type 403026
	Designation Testing agency Certificate no. Inspection basis Valid for	UKEX Bureau Veritas EPS 22 UKEX 1370 X EN 60079-0, EN 60079-1, EN 60079-26, EN 60079-31 Type 403026 with extra code 085
	Designation Testing agency Certificate no. Inspection basis Valid for	SIL exida JUMO 2203088 C001 IEC 61508-1/-2/-3:2010 Type 403026 with basic type extension 2
	Designation Testing agency Certificate no. Inspection basis Valid for	EHEDG EHEDG EHEDG-C2000058 Hygienic Equipment Design Type 403026 with process connection 613 (DN 25) and 616

Observe "Special conditions for safe use" in hazardous areas.

Certificates for approved device versions are available for download on the manufacturer's website.

EHEDG conformity only in conjunction with EHEDG-approved process connections, ⇒ page 10.

Technical data

General Information

Reference conditions Ambient temperature Air pressure Voltage supply Burden	DIN EN 60770 and DIN EN 61298 22 °C ±5 K 1000 hPa (±25 hPa) DC 24 V 50 Ω
Sensor system Pressure transfer medium For measuring system filling medium 0 For measuring system filling medium 1 Admissible load changes	Silicon sensor with stainless steel separating diaphragm Without transfer medium Silicon oil, FDA compliant > 10 million
Position Mounting position Calibration position Zero offset depending on position	Any Device upright, process connection at the bottom A zero offset is possible on-site or via setup.
Display ^a Alignment Size Color	LCD, two-line with bar graph Display unit rotatable in 90° steps Housing rotatable ±160° Display 22 × 35 mm, font size 7 mm/5 digits Black

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Portrayable measuring units	
Input pressure	mH ₂ O, inH ₂ O, inHg, ftH ₂ O, mmH ₂ O, mmHg, psi, bar, mbar, kg/cm ² , kPa, Torr, MPa
Measured value	% or scaled with freely adjustable measuring unit
Output current	mA
Sensor temperature	°C, °F
Additional display data	Minimum pressure, maximum pressure, error, overrange, underrange, operating hours, device parameters
Operation	
On-site	With rotary knob and LCD
Setup program	Via interface
Interface	
Standard	JUMO interface ^b
For output 410 (4 to 20 mA with HART)	JUMO interface ^b and HART interface

^a Optional; SIL version only available with display.

^b The JUMO interface may not be used in a potentially explosive area! In such a case the device can be operated via the rotary knob or the HART interface.

Ex identification markings

ATEX, UKEX	II 1/2G Ex db IIC T6 ... T4 Ga/Gb II 2D Ex tb IIIC T105 °C Db
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Electrical data

Voltage supply	DC 12 to 36 V
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Inputs

Measuring range and accuracy

Including non-linearity, hysteresis, non-repeatability, zero point and final value deviation (corresponds to measurement deviations according to IEC 61298-2), calibrated at vertical installation position with the process connection at the bottom

Relative pressure

	Nominal measuring range			
	-600 to +600 mbar	-1 to +2.5 bar	-1 to +4 bar	-1 to +10 bar
Default measuring range	0 to 600 mbar	0 to 2.5 bar	0 to 4 bar	0 to 10 bar
Smallest MSP ^a	60 mbar	0.1 bar	0.1 bar	0.5 bar
Turndown ratio (r) ^b	$r \leq 20$	$r \leq 35$	$r \leq 50$	$r \leq 22$
Non-linearity for reference conditions ^c	0.06 %	0.04 %	0.04 %	0.04 %
Accuracy in % of the set MSP Range: -20 to +60 °C	$r \times 0.12 \%$ for $1 \leq r \leq 20$	$r \times 0.08 \%$ for $1 \leq r \leq 35$	$r \times 0.08 \%$ for $1 \leq r \leq 50$	$r \times 0.08 \%$ for $1 \leq r \leq 22$
Accuracy in % of the set MSP Range: -40 to -20 °C or 60 to 85 °C	$r \times 0.18 \%$ for $1 \leq r \leq 20^d$	$r \times 0.12 \%$ for $1 \leq r \leq 35$	$r \times 0.12 \%$ for $1 \leq r \leq 50$	$r \times 0.12 \%$ for $1 \leq r \leq 22$
Long-term stability in % as of the nominal measuring range	0.1 %/year			
Overload capability	6 bar	15 bar	30 bar	60 bar
Burst pressure	12 bar	30 bar	60 bar	100 bar

	Nominal measuring range			
	-1 to +25 bar	-1 to +100 bar	-1 to +250 bar	-1 to +600 bar
Default measuring range	0 to 25 bar	0 to 100 bar	0 to 250 bar	0 to 600 bar
Smallest MSP ^a	0.5 bar	5 bar	12.5 bar	30 bar
Turndown ratio (r) ^b	$r \leq 52$	$r \leq 20$	$r \leq 20$	$r \leq 20$
Non-linearity for reference conditions ^c	0.04 %	0.04 %	0.04 %	0.08 %
Accuracy in % of the set MSP Range: -20 to +60 °C	$r \times 0.08 \%$ for $1 \leq r \leq 52$	$r \times 0.08 \%$ for $1 \leq r \leq 20$	$r \times 0.08 \%$ for $1 \leq r \leq 20$	$r \times 0.16 \%$ for $1 \leq r \leq 20$
Accuracy in % of the set MSP Range: -40 to -20 °C or 60 to 85 °C	$r \times 0.12 \%$ for $1 \leq r \leq 52$	$r \times 0.12 \%$ for $1 \leq r \leq 20$	$r \times 0.12 \%$ for $1 \leq r \leq 20$	$r \times 0.24 \%$ for $1 \leq r \leq 20$
Long-term stability in % as of the nominal measuring range	0.1 %/year			
Overload capability	150 bar	300 bar	600 bar	1200 bar
Burst pressure	250 bar	400 bar	700 bar	2000 bar

^a MSP = measuring span

^b r = span of the nominal measuring range ÷ adjusted measuring span

^c Reference conditions: ambient temperature 20 °C (±3 K), air pressure 1000 hPa (±25 hPa)

^d Only up to -30 °C.

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Absolute pressure

	Nominal measuring range			
	0 to 600 mbar	0 to 2.5 bar	0 to 4 bar	0 to 10 bar
Default measuring range	0 to 600 mbar	0 to 2.5 bar	0 to 4 bar	0 to 10 bar
Smallest MSP ^a	60 mbar	0.1 bar	0.1 bar	0.5 bar
Turndown ratio (r) ^b	$r \leq 10$	$r \leq 20$	$r \leq 40$	$r \leq 20$
Non-linearity for reference conditions ^c	0.12 %	0.04 %	0.04 %	0.04 %
Accuracy in % of the set MSP Range: -20 to +60 °C	$r \times 0.24 \%$ for $1 \leq r \leq 10$	$r \times 0.08 \%$ for $1 \leq r \leq 20$	$r \times 0.08 \%$ for $1 \leq r \leq 40$	$r \times 0.08 \%$ for $1 \leq r \leq 20$
Accuracy in % of the set MSP Range: -40 to -20 °C or 60 to 85 °C	$r \times 0.36 \%$ for $1 \leq r \leq 10^d$	$r \times 0.16 \%$ for $1 \leq r \leq 20$	$r \times 0.16 \%$ for $1 \leq r \leq 40$	$r \times 0.16 \%$ for $1 \leq r \leq 20$
Long-term stability in % as of the nominal measuring range	0.1 %/year			
Overload capability	6 bar	15 bar	30 bar	60 bar
Burst pressure	12 bar	30 bar	60 bar	100 bar

	Nominal measuring range	
	0 to 25 bar	0 to 100 bar
Default measuring range	0 to 25 bar	0 to 100 bar
Smallest MSP ^a	0.5 bar	5 bar
Turndown ratio (r) ^b	$r \leq 50$	$r \leq 20$
Non-linearity for reference conditions ^c	0.04 %	0.04 %
Accuracy in % of the set MSP Range: -20 to +60 °C	$r \times 0.08 \%$ for $1 \leq r \leq 50$	$r \times 0.08 \%$ for $1 \leq r \leq 20$
Accuracy in % of the set MSP Range: -40 to -20 °C or 60 to 85 °C	$r \times 0.16 \%$ for $1 \leq r \leq 50$	$r \times 0.12 \%$ for $1 \leq r \leq 20$
Long-term stability in % as of the nominal measuring range	0.1 %/year	
Overload capability	150 bar	300 bar
Burst pressure	250 bar	400 bar

^a MSP = measuring span

^b r = span of the nominal measuring range + adjusted measuring span

^c Reference conditions: ambient temperature 20 °C (±3 K), air pressure 1000 hPa (±25 hPa)

^d Only up to -30 °C.

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Outputs

Analog output For output 410 (4 to 20 mA with HART) Jump response time T_{60} Attenuation	4 to 20 mA, two-wire with HART version 7 ≤ 190 ms without attenuation Adjustable 0 to 100 s
Burden For output 410 (4 to 20 mA with HART)	$Burden \leq (U_B - 12 \text{ V}) \div 0.022 \text{ A}$; additional: min. 250 Ω , max. 1100 Ω

Environmental influences

Admissible temperatures Operation	Version	Temperature class	Maximum medium temperature	Ambient temperature ^a	Expanded ambient temperature (extra code 681) ^{a, b, c}
	II 1/2G Ex d	T6	70 °C	-40 to +60 °C	-50 to +60 °C
		T5	85 °C	-40 to +70 °C	-50 to +70 °C
		T4	115 °C	-40 to +85 °C	-50 to +85 °C
	II 2D Ex tb	T105 °C	100 °C	-40 to +85 °C	-50 to +85 °C
Storage	-40 to +85 °C				
Admissible humidity Operation Storage	100 % including condensation on the device outer case 90 % without condensation				
Admissible mechanical load Vibration strength Shock resistance	DIN EN 60770-3, IEC 60068-2-27 2 g, 10 to 2000 Hz 15 g for 6 ms				
Electromagnetic compatibility Interference emission Interference immunity	DIN EN 61326-2-3:2022 Class B ^d Industry				
Protection type	DIN EN 60529 IP66				

^a Under -20 °C limited function: stationary use, increased danger of cable break, display without function; under -30 °C operation of the device not possible.

^b In the range from -40 to -50 °C the device must be permanently in operation. The lid with the inspection glass must also be protected against mechanical impact and shock effects.

^c Without SIL.

^d The product is suitable for industrial use as well as for households and small businesses.

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Mechanical features

Process connection	
Material 20 (stainless steel)	
Front-flush process connections	316L
Otherwise	316Ti
Material 82 (HASTELLOY)	2.4819/HASTELLOY C-276
Surface	Ra ≤ 0.8 µm
Process seal	
Process connection 571 G 3/4 front-flush)	FPM
Otherwise	No seal
Measuring membranes	
Material process connection 20 (stainless steel)	
For -1 to +250 bar relative pressure (measuring range 508)	630
For -1 to +600 bar relative pressure (measuring range 516)	630
Otherwise	316L
Material process connection 82	2.4819/HASTELLOY C-276
Surface	Ra ≤ 0.8 µm
Housing	
Material	
Cover	1.4408
Lid	1.4408, seal FPM
Operation 1 (control knob)	PA
Weight	~ 1.6 kg

Process connections

Front-flush

Designation	Max. pressure	Temperature range
Taper socket with union nut DN 25 DIN 11851	40 bar	-10 to +140 °C
Taper socket with union nut DN 40 DIN 11851	40 bar	-10 to +140 °C
G 3/4 front-flush	25 bar	-10 to +150 °C
DIN EN ISO 228-1	40 bar	-10 to +100 °C

Front-flush, with EHEDG certification

Designation	Max. pressure	Temperature range
Clamping socket (clamp) DN 25 DIN 32676	25 bar	-10 to +140 °C
Clamping socket (clamp) DN 50 DIN 32676 (2" ISO 2852)	16 bar	-10 to +140 °C

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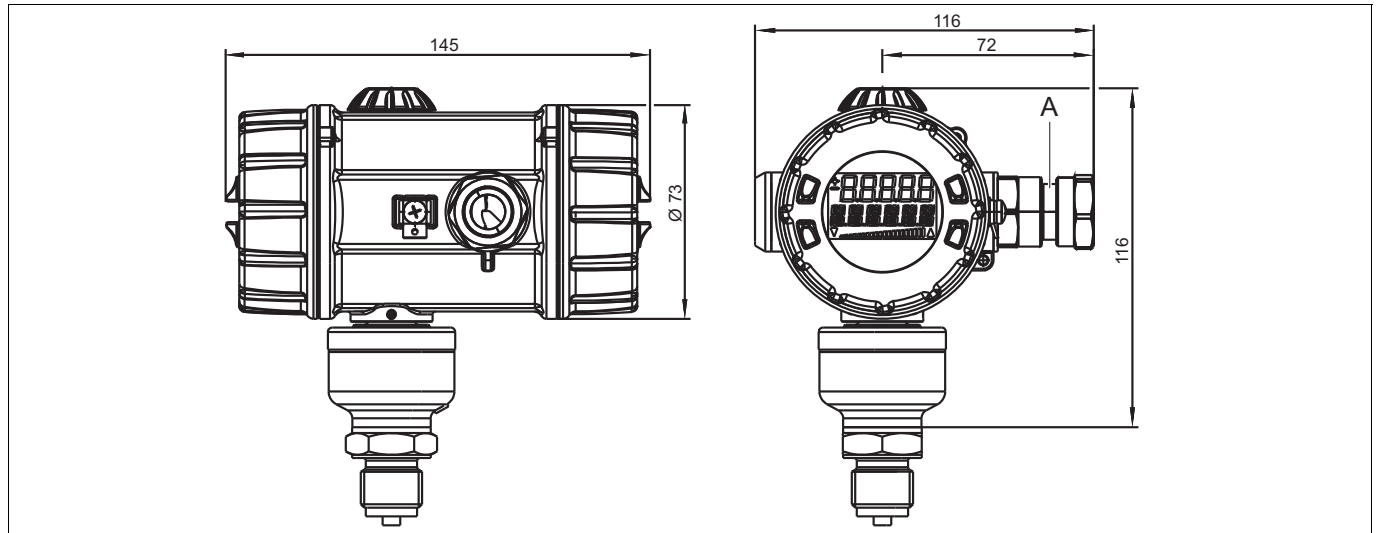


Data Sheet 403026

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Dimensions

Device



A Cable fitting M20 × 1.5

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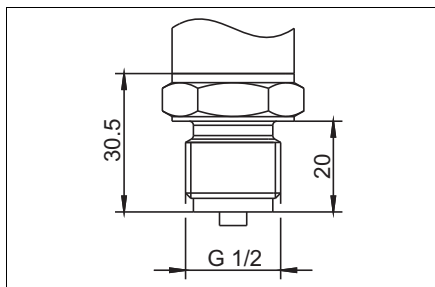
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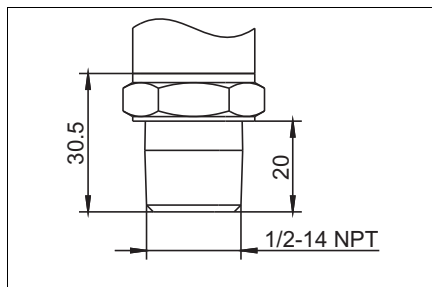
Process connections

Not front-flush

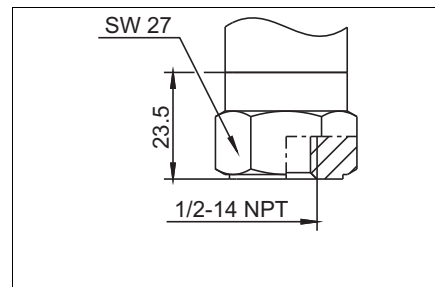
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 DIN EN 837



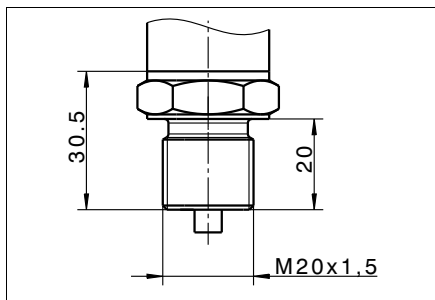
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1/2" – 14 NPT internal

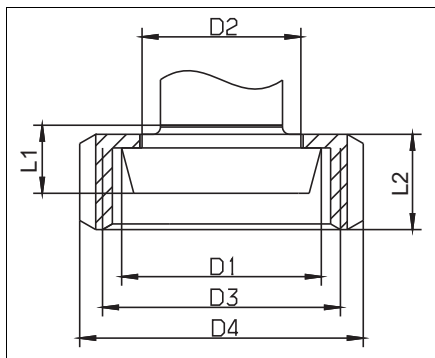


M20 (× 1.5) with pin

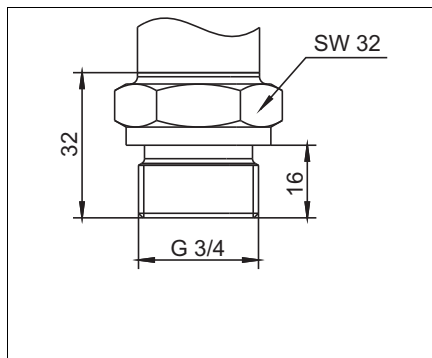


Front-flush

Taper socket with union nut
 DIN 11851



G 3/4
 DIN EN ISO 228-1



Connection	DN	D1	D2	D3	D4	L1	L2
Taper socket with union nut DIN 11851	25	Ø 44	Ø 35	Rd 52 × 1/6"	Ø 63	15	21
	40	Ø 56	Ø 48	Rd 65 × 1/6"	Ø 78		

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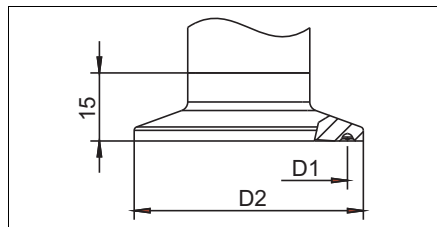
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**Front-flush, with EHEDG certification**

Clamping socket (clamp)
according to DIN 32676



Connection	DN	D1	D2
Clamping socket (clamp)	25	Ø 43.5	Ø 50.5
DIN 32676	50	Ø 56.5	Ø 64

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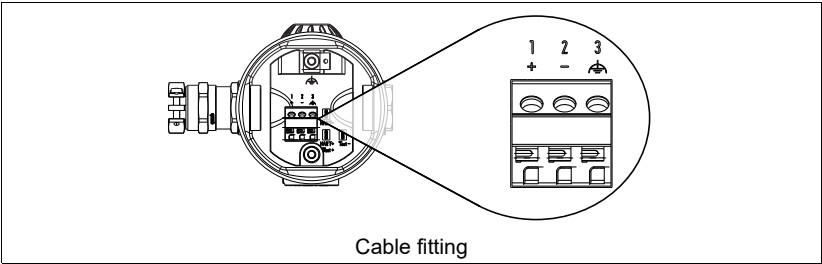
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Connection elements

The connection elements in the data sheet provide information on product selection.
For the electrical connection, only use the installation instructions or the operating manual.



Terminal assignment

Voltage supply DC 12 to 36 V		1 L+ 2 L-
Output 4 to 20 mA, two-wire Load-independent current 4 to 20 mA in voltage supply		1 L+ 2 L-
Test connection for current output Internal resistance of the ammeter ≤ 10 Ω		TEST + TEST -
Test connection for HART The burden must be present!		HART + HART -
Functional ground		3
Grounding or potential equalization		Outside of the housing

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Order details

	(1) Basic type
403026	JUMO dTRANS p20 Ex d - Process pressure transmitter with flameproof enclosure
	(2) Basic type extension
0	None
2	SIL ^{a, b}
	(3) Display
1	Display (LCD)
	(4) Operation
1	Control knob
	(5) Input – nominal measuring range
450	-600 to +600 mbar relative pressure
473	-1 to +2.5 bar relative pressure
513	-1 to +4 bar relative pressure
472	-1 to +10 bar relative pressure
514	-1 to +25 bar relative pressure ^c
515	-1 to +100 bar relative pressure ^d
508	-1 to +250 bar relative pressure ^d
516	-1 to +600 bar relative pressure ^d
487	0 to 0.6 bar absolute pressure
490	0 to 2.5 bar absolute pressure
491	0 to 4 bar absolute pressure
493	0 to 10 bar absolute pressure
495	0 to 25 bar absolute pressure ^d
507	0 to 100 bar absolute pressure ^d
	(6) Output
410	4 to 20 mA, two-wire with HART protocol
	(7) Process connection
504	G 1/2 according to DIN EN 837
512	1/2" – 14 NPT according to DIN 837
564	1/2" – 14 NPT internal
571	G 3/4 front-flush according to DIN EN ISO 228-1
583	M20 (× 1.5) with pin
604	Taper socket with union nut DN 25 according to DIN 11851 (dairy pipe fitting)
606	Taper socket with union nut DN 40 according to DIN 11851 (dairy pipe fitting)
613	Clamp connection DN 25/32/40 according to DIN 32676
616	Clamp connection DN 50 according to DIN 32676/2" ISO 2852
998	Diaphragm seal version, screwed
	(8) Process connection material
20	CrNi (stainless steel)
82	NiMo ^e
	(9) Measuring system, filling medium
00	Without ^f
01	Silicon oil
	(10) Extra codes
000	Without
085	UKEX
100	Customer-specific factory setting ^g
452	Wetted, electrolytically polished parts
591	Choke in the pressure channel

