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JUMO dTRANS p20

Process pressure transmitter

Type 403025/0-0-1-...

Type 403025/0-0-2-...

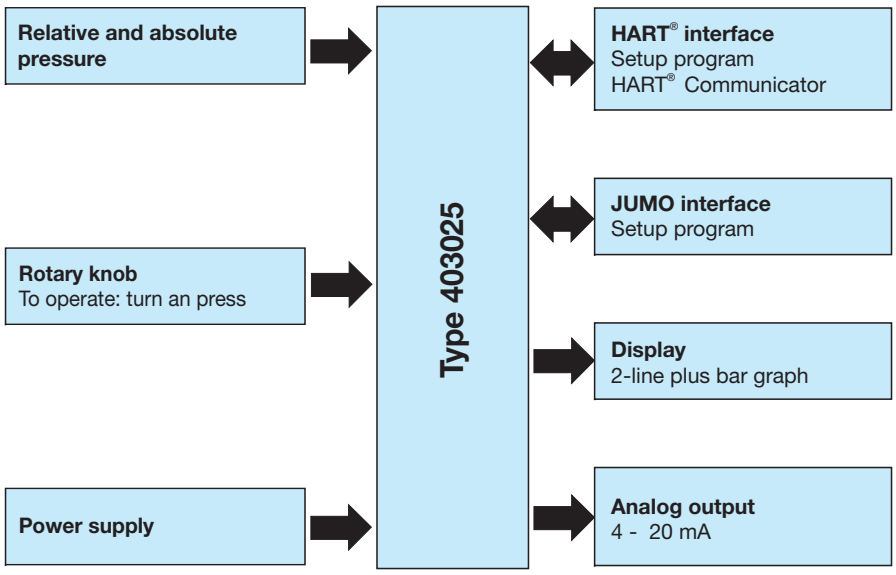
Type 403025/0-0-3-...

Brief description

The JUMO dTRANS p20 pressure transmitter with HART® interface combines maximum precision with easy operation. It is used to measure the relative and absolute pressures of gases, vapors and liquids. The integrated LCD shows measurements and device data. In the version with “Ex ia (intrinsically safe)“ explosion protection, the pressure transmitter can be fitted up to zone 0.
The housing and sensors are made from high-quality stainless steel. Various front-flush process connections are available for applications to meet hygiene requirements, including the EHEDG-certified PEKA connection system (see data sheet 409711).
A high-temperature version capable of withstanding medium temperatures up to 200°C has been specifically designed for application involving hot media and pipes.
It is also possible to connect remote seals for special process engineering applications (see data sheets 409772 to 409784).
The transmitter is programmable, making it readily adaptable to a variety of different measurement tasks. A user-friendly setup program is available as an accessory, for operation via the interfaces. A rotary knob ensures highly convenient and fast local, manual operation.

For the "Ex d" explosion protection version, see data sheet 403026.
For the differential pressure version, see data sheet 403022.

Block diagram



Key features

- Stainless steel housing
- HART® interface
- Ex ia explosion protection (gas and dust) according to ATEX, INMETRO and GOST-R
- 0.05 % linearity
- Turn Down 1:50
- Medium temperature up to 200 °C
- Rotary knob for ease of operation
- Setup program
- LCD display with bar graph
- Display scaling with a choice of measurement units
- Display of sensor temperature
- Display of minimum and maximum pressures
- Current sensor function

Approvals/marks of conformity (see Technical data)

2013-03-12/00535026

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Technical data

General

Reference conditions	DIN 16086, DIN EN 60770 and DIN IEC 770/5.3
Sensor system	Silicon sensor with stainless steel separating diaphragm
Pressure transfer medium	
for measuring system filling medium 0	Without transfer medium
for measuring system filling medium 1	Silicon oil, FDA-compliant
Permissible load change	> 10 million
Location	
Mounting position	Any
Calibration position	Device standing vertically, process connection on bottom
Location-dependent zero point offset	Zero point calibration possible locally or via setup.
for medium temperature 1 (up to 120 °C)	≤ 1 mbar
for medium temperature 2 (up to 200 °C)	≤ 10 mbar
Display	LCD, two-line with bar graph
Alignment	Display unit can be rotated 90° at a time Housing can be rotated ±160°
Size	Display field 22 × 35 mm/font size 7 mm/5 digits
Color	Black
Measurement unit display options	
Input pressure	mH_2O, inH_2O, inHg, ftH_2O, mmH_2O, mmHg, psi, bar, mbar, kg/cm^2, kPa, Torr, MPa
Measurement value	% or scaled with a freely adjustable measurement unit
Output current	mA
Sensor temperature	°C; °F
Additional display data	Minimum pressure, maximum pressure, error, overrange, underrange, operating hours, device parameters
Operation	
Local	With rotary knob and LCD
Setup program	Via interface
Interface	
Standard	JUMO interface[a]
for output 410 (4 – 20 mA with HART®)	JUMO interface[a] and HART® interface

[a] The JUMO interface must not be used for instruments with ATEX Ex ia explosion protection! These instruments can be operated by the rotary knob or via the HART® interface.

Input

Relative pressure					
Nominal measuring range	-600 to 600 mbar rel.	-1 to 4 bar rel.	-1 to 25 bar rel.	-1 to 100 bar rel.	-1 to 600 bar rel.
Overload capacity	6 bar	30 bar	150 bar	300 bar	1200 bar
Burst pressure	12 bar	60 bar	250 bar	400 bar	2000 bar
Absolute pressure					
Nominal measuring range	0 to 0.6 bar abs.	0 to 4 bar abs.	0 to 25 bar abs.	0 to 100 bar abs.	
Overload capacity	6 bar	30 bar	150 bar	300 bar	
Burst pressure	12 bar	60 bar	250 bar	400 bar	

Output

Analog output	
for output 405	4 to 20 mA, two wire
for output 410	4 to 20 mA, two wire with HART®
Step response time T60	≤ 190 ms without damping
Damping	adjustable, 0 to 100 s

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Burden	
for output 405 (4 to 20 mA)	Burden ≤ (U_B-11,5 V)/0,022 A
for output 410 (4 to 20 mA with HART®)	Burden ≤ (U_B-11,5 V)/0,022 A; additional: min. 250 Ω, max. 1100 Ω

Power supply

For version	
Explosion protection 0 (none)	11,5 to 36 V DC
Explosion protection 1 (ATEX Ex ia)	11,5 to 28 V DC The power supply must be intrinsically safe and must not exceed the following maximum values: U_i ≤ 28 V DC I_i ≤ 93 mA P_i ≤ 750 mW

Mechanical properties

Process connection	
Material	Stainless steel 316L
for nominal measuring range 516	Stainless steel 1.4542
Surface	Ra ≤ 0.8 µm
Process seal	
for process connection 512 and 571	FPM
for process connection 652	FPM
for process connection 997 (JUMO PEKA)	FDA-compliant, EHEDG approved materials: FPM, VMQ, EPDM option, see data sheet 409711
for all other process connections	Without a seal
Messmembrane	
Material	Stainless steel 316L
Surface	Ra ≤ 0.8 µm
Housing	
Material	
for housing 1 (short, stainless steel)	Stainless steel 1.4404
for housing 2 (long, stainless steel)	Stainless steel 1.4404, VMQ
for housing 3 (precision casting)	Precision casting 1.4408
for cover material 20 (stainless steel)	Precision casting 1.4408, FPM seal
for cover material 85 (plastic)	PA, FPM seal
for electrical connection 36 (M12 × 1 round plug)	Nickel-plated brass
for electrical connection 82 (cable gland, plastic)	PA
for electrical connection 93 (cable gland, metal)	Nickel-plated brass
for operation 0 (without control knob)	-
for operation 1 (with control knob)	PA
Explosion protection	
for explosion protection 0 (none)	The instrument is **not** approved for use in hazardous (Ex) areas.
for explosion protection 1 (ATEX Ex ia)	EC type examination certificate SEV 09 ATEX 0138 X ⟨Ex⟩ II 1/2G Ex ia IIC T6 to T3 Ga/Gb II 1/2D Ex ia IIIC T105 °C Da/Db
Weight	
type 403025/0-0-1 (short housing)	approx. 550 g
type 403025/0-0-2 (long housing)	approx. 850 g
type 4030252/0-0-3 (precision casting housing)	approx. 1600 g

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Ambient conditions

Permissible temperatures					
Operation	Version	Category	Max. medium temperature	Environment temperature[a]	Extended environment temperature (extra code 681)[a, b]
	Standard		+120 °C	-40 to +85 °C	-50 to +85 °C
	High temperature		+200 °C	-40 to +85 °C	-50 to +85 °C
	II 1/2G Ex ia	T6	+60 °C	-40 to +50 °C	-50 to +50 °C
		T5	+70 °C	-40 to +65 °C	-50 to +65 °C
		T4	+115 °C	-40 to +85 °C	-50 to +85 °C
		T3[c]	+175 °C	-40 to +85 °C	-50 to +85 °C
	II 1/2D Ex ia	T105 °C	+100 °C	-40 to +60 °C	-50 to +60 °C
Storage	-40 to +85°C				
Permissible relative humidity					
Operation	100 % incl. condensation on instrument outer sleeve				
Storage	90 % without condensation				
Permissible mechanical loading					
Vibration performance	2 g, 10 to 2000 Hz to DIN EN 60068-2-6				
Shock resistance	15 g for 6 ms to IEC 60068-2-27				
Electromagnetic compatibility	To EN 61326				
Interference emission	Class B				
Interference resistance	Industry				
Protection					
Version					
Explosion protection 0 (none)	IP67 to DIN EN 60529				
Explosion protection 1 (ATEX Ex ia)	IP66 to DIN EN 60529				

[a] Restricted function below -20 °C: stationary use, increased danger of broken cable, display does not function.
[b] In the range of -40 to -50 °C, the cover with the instrument viewing pane must also be protected against mechanical shock and impact. For details please contact JUMO.
[c] Only for high temperature version (temperature of medium 2).

Accuracy

Relative pressure					
Nominal measuring range	-600 to 600 mbar rel.	-1 to 4 bar rel.	-1 to 25 bar rel.	-1 to 100 bar rel.	-1 to 600 bar rel.
Factory setting for measuring range	0 to 600 mbar	0 to 4 bar	0 to 25 bar	0 to 100 bar	0 to 600 bar
Minimum span	60 mbar	0.1 bar	0.5 bar	5 bar	30 bar
Turndown ratio (r)	r ≤ 20	r ≤ 50	r ≤ 52	r ≤ 20	
Linearity for linear characteristic as % of the set span	0.1 % for r ≤ 10	0.05 % for r ≤ 10			
	r × 0.01 % for 10 ≤ r ≤ 20	r × 0.005 % for 10 ≤ r ≤ 50	r × 0.005 % for 10 ≤ r ≤ 52	r × 0.005 % for 10 ≤ r ≤ 20	
Accuracy at 20 °C as % of the set span	0.2 % for r ≤ 10	0.1 % for r ≤ 10			
	r × 0.02 % for 10 ≤ r ≤ 20	r × 0.01 % for 10 ≤ r ≤ 50	r × 0.01 % for 10 ≤ r ≤ 52	r × 0.01 % for 10 ≤ r ≤ 20	
Accuracy at -40 to +85 °C as % of the set span	0.3 % for r ≤ 10[a]	0.2 % for r ≤ 10		0.2 % for r ≤ 10	
	r × 0.03 % for 10 ≤ r ≤ 20[a]	r × 0.02 % for 10 ≤ r ≤ 50	r × 0.02 % for 10 ≤ r ≤ 52	r × 0.02 % for 10 ≤ r ≤ 20	
Long-term stability as % of nominal measuring range	0.1 %/year				

[a] Only to -30 °C.

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Absolute pressure				
Nominal measuring range	0 to 0.6 bar abs.	0 to 4 bar abs.	0 to 25 bar abs.	0 to 100 bar abs.
Factory setting for measuring range	0 to 600 mbar	0 to 4 bar	0 to 25 bar	0 to 100 bar
Minimum span	60 mbar	0.1 bar	0.5 bar	5 bar
Turndown ratio (r)	r ≤ 10	r ≤ 40	r ≤ 50	r ≤ 20
Linearity for linear characteristic as % of the set span	0.1 % for r ≤ 5	0.05 % for r ≤ 10		
	r × 0.02 % for 5 ≤ r ≤ 10	r × 0.005 % for 10 ≤ r ≤ 40	r ××x 0.005 % for 10 ≤ r ≤ 50	r × 0.005 % for 10 ≤ r ≤ 20
Accuracy at 20 °C as % of the set span	0.2 % for r ≤ 5	0.1 % for r ≤ 10		
	r × 0.04 % for 5 ≤ r ≤ 10	r × 0.01 % for 10 ≤ r ≤ 40	r × 0.01 % for 10 ≤ r ≤ 50	r × 0.01 % for 10 ≤ r ≤ 20
Accuracy at -40 to +85 °C as % of the set span	0.3 % for r ≤ 5[a]	0.2 % for r ≤ 10		
	r × 0.06 % for 5 ≤ r ≤ 10[a]	r × 0.02 % for 10 ≤ r ≤ 40	r × 0.02 % for 10 ≤ r ≤ 50	r × 0.02 % for 10 ≤ r ≤ 20
Long-term stability as % of nominal measuring range	0.1 %/year			

[a] Only to -30 °C.

Approvals/marks of conformity

Mark of conformity	**Testing laboratory**	**Certificate/ certification number**	**Test basis**	**Valid for**
ATEX	electrosuisse	SEV 09 ATEX 0138 X	EN 60079-0 EN 60079-11 EN 60079-26	403025/x-1-...
EHEDG	TUM MAK	03/2006	Document No.8	Process connection 997 (JUMO PEKA)
INMETRO				
GOST-R				

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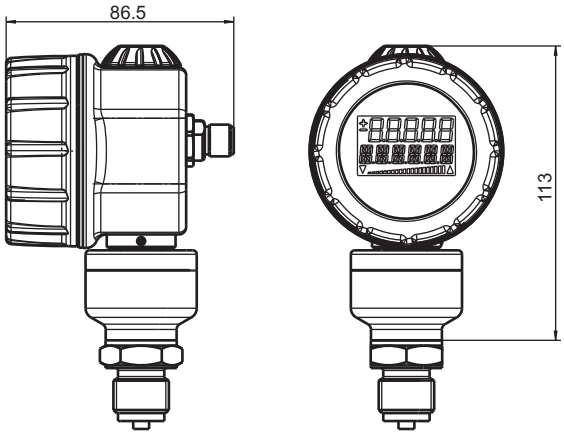
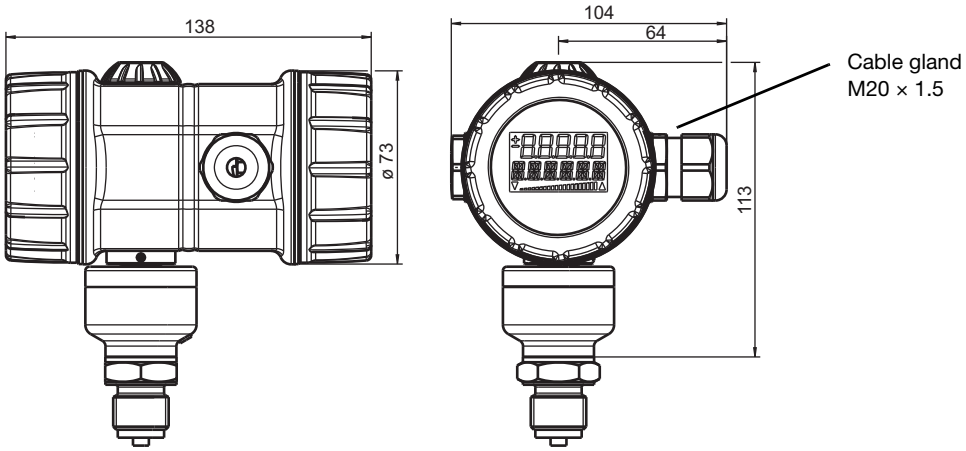
Dimensions

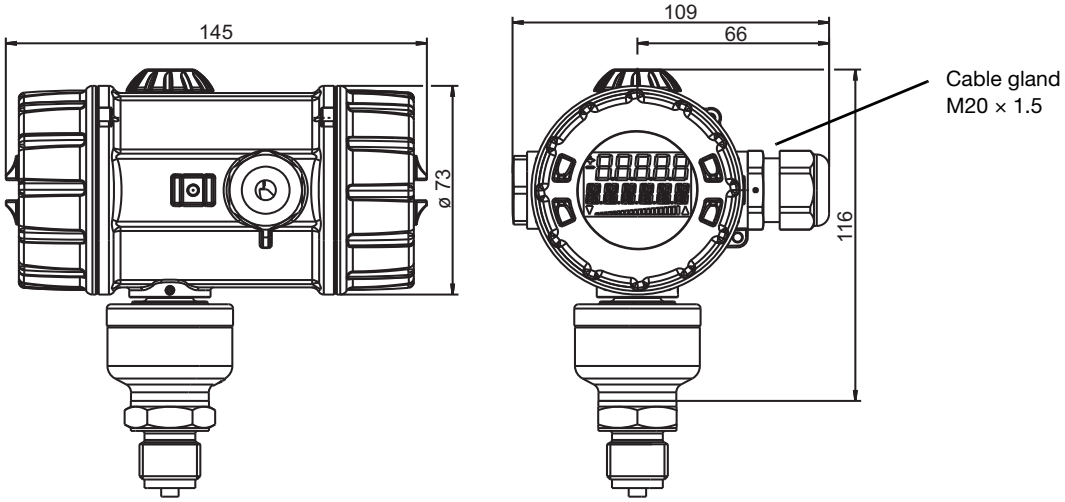
Type 403025/0-0-1 (short, stainless steel, with M12 connection)



Type 403025/0-0-2 (long, stainless steel, with cable gland)



Type 403025/0-0-3 (precision casting, with cable gland)



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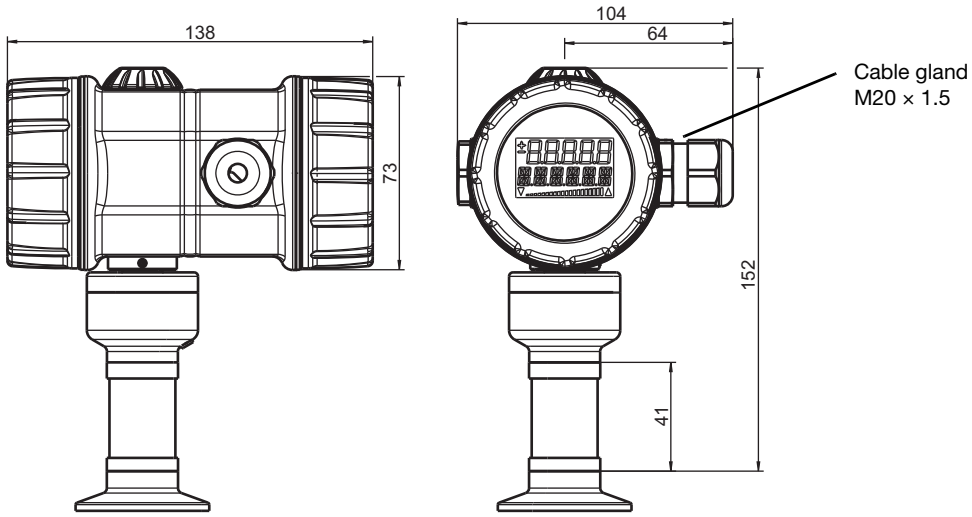
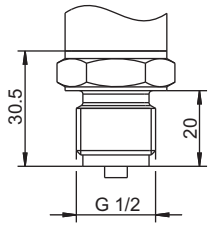
Dimensions for medium temperature 2 (high-temperature version)

In pressure transmitters suitable for medium temperatures up to 200°C, the increased temperature is dissipated over an extended shaft. The overall height of all the pressure transmitters in this version increases as in the diagram below, by 41 mm.

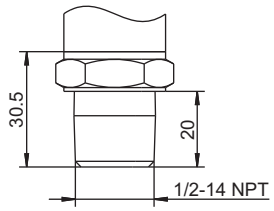


Process connections

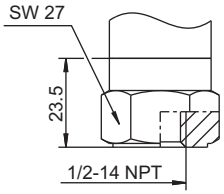
504
(G1/2)



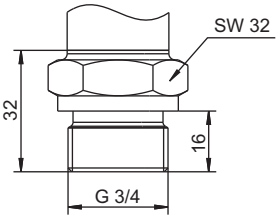
512
(1/2-14 NPT)



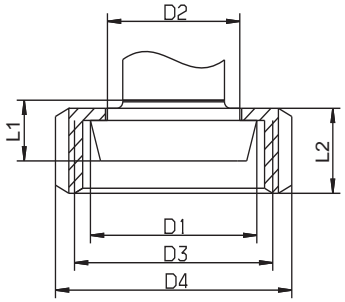
564
(1/2-14 NPT internal)



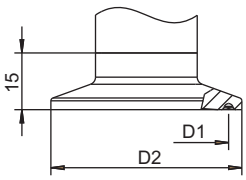
571
(G3/4)



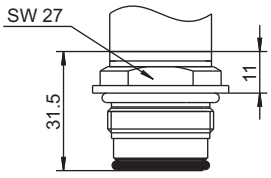
604 and 606
(taper connection nut to DIN 11851)



613 and 616
(clamp to DIN 32676)



997
(JUMO PEKA)



Dimensions of process connections 604, 606, 613 and 616

Conn.	DN	D1	D2	D3	D4	L1	L2
604	25	ø44	ø35	Rd 52x1/6"	ø63	15	21
606	40	ø56	ø48	Rd 65x1/6"	ø78		
613	25	ø43.5	ø50.5				
616	50	ø56.5	ø64				

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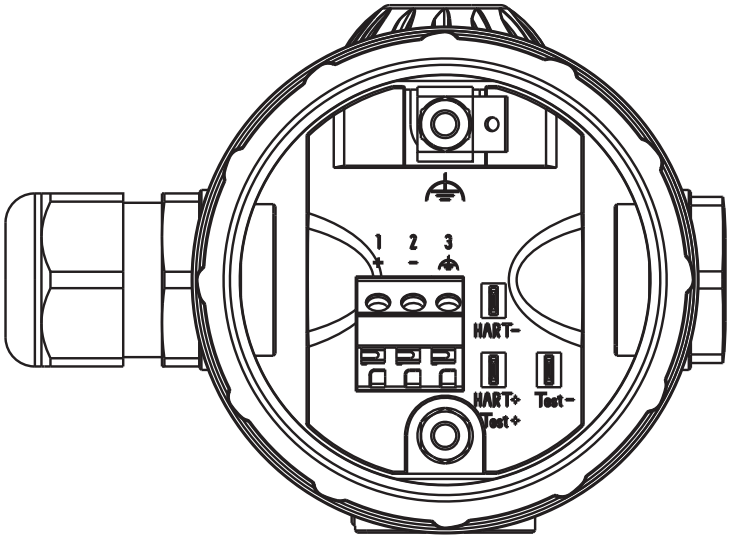
Electrical connection

Connection	Terminal assignment	
	Cable gland	Round plug, M12 × 1
Power supply for **non** Ex version 11.5 to 36 V DC for Ex version 11.5 to 30 V DC	1 L+ 2 L-	1 L+ 3 L-
Output 4 to 20 mA two wire Impressed current 4 to 20 mA in power supply	1 L+ 2 L-	1 L+ 3 L-
Current output test connection Inherent resistance of ammeter ≤ 10 Ω	TEST + TEST -	
HART® test connection The burden must be present!	HART + HART -	
Functional ground	3	4

Cable gland



M12 × 1 round plug

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Order details

	(1)	**Basic type**
403025		dTRANS p20 process pressure transmitter
	(2)	**Basic type extension**
0		none
9		Special design
	(3)	**Explosion protection**
0		none
1		ATEX Ex ia[a]
	(4)	**Housing**
1		Short, stainless steel, with M12 connection
2		Long, stainless steel, with cable gland
3		Precision casting, with cable gland
	(5)	**Electrical connection**
36		Round plug, M12 × 1[b]
82		Cable gland, plastic
93		Cable gland, metal
	(6)	**Cover material**
20		CrNi (stainless steel)
85		Plastic
	(7)	**Display**
0		Without display (LCD)
1		With display (LCD)
	(8)	**Operation**
0		Without control knob
1		With control knob
	(9)	**Nominal measuring range**
450		-600 to +600 mbar relative pressure
487		0 to +0.6 bar absolute pressure
491		0 to +4 bar absolute pressure
495		0 to +25 bar absolute pressure
507		0 to +100 bar absolute pressure[c]
513		-1 to +4 bar relative pressure
514		-1 to +25 bar relative pressure
515		-1 to +100 bar relative pressure[c]
516		-1 to +600 bar relative pressure[d]
	(10)	**Output**
405		4 to 20 mA, two wire
410		4 to 20 mA, two wire with HART® protocol
	(11)	**Process connection**
504		G 1/2 to EN 837
512		1/2 - 14 NPT to DIN 837
564		1/2 - 14 NPT internal
571		G 3/4 front-flush to DIN 837
604		Taper connection with union nut DN 25 to DIN 11851 (milk cone)
606		Taper connection with union nut DN 40 to DIN 11851 (milk cone)
613		Clamp DN 25 to DIN 32676
616		Clamp DN 50 to DIN 32676/2" ISO 2852
997		JUMO PEKA with EHEDG approval
998		Suitable for connecting to a diaphragm seal

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	(12)	**Temperature of medium**
1		Up to 120°C[e]
2		Up to 200°C[f]
	(13)	**Process connection material**
20		CrNi (stainless steel)
82		NiMo
	(14)	**Measuring system filling medium**
00		none
01		Silicon oil
	(15)	**Extra codes**
000		None
100		Customized setting[g]
226		With GOST R approval
227		With INMETRO approval
452		Parts in contact with the medium are electropolished, surface roughness Ra ≤ 0.8 µm
591		Throttle in pressure channel
624		Free of oil and grease
630		Enlarged pressure channel
634		With TAG number
681		Extended permissible environment temperature
691		improved protection of moisture and vibration

[a] ATEX Ex ia does not apply in connection with a cable gland made out of plastic (82), a cover material made out of plastic (85) and the output 4 to 20 mA (405).
[b] The case is only available with a round plug M12×1 (36) as electrical connection.
[c] This inputs specified above are not available with the process connections 604, 606, 613, 616.
[d] This input is not available with the process connections 571, 604, 606, 613, 616, 997.
[e] For ATEX Ex ia 115 °C max.
[f] For ATEX Ex ia 175 °C max.
[g] Please specifiy required setting in plain text. For factory setting see "Accuracy" section in data sheet.

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)		(11)		(12)		(13)		(14)		(15)
Order code		/		-		-		-		-		-		-		-		-		-		-		-		-		/	
Order example	403025	/	0	-	0	-	2	-	82	-	85	-	1	-	1	-	514	-	405	-	504	-	1	-	20	-	1	/	000		

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Accessories

Article	Part no.
PC interface with USB/TTL converter[a]	00456352
HART® modem USB[b]	00443447
4-pole terminal box, straight, M12 × 1, with 2 m PVC cable	00404585
4-polige terminal box, angled, M12 × 1, mit 2 m PVC cable	00409334
5-pole terminal box M12 × 1, straight, without cable	00419130
5-pole terminal box M12 × 1, angled, without cable	00419133

	Data Sheet
Manifolds	409706
JUMO PEKA - Process connection adapter with EHEDG approval	409711
Pressure separator with milk pipe fitting DIN 11851	409772
Pressure separator with clamp connection	409774
Pressure separator with DRD flange or Varivent connection	409776
Pressure separator with ISS connection or SMS connection or RJT connection and slotted ring nut	409778
Diaphragm chemical seals 4MDV-10	409780
Pressure separator with male thread ISO 228/1 or ANSI B 1.201	409782
Pressure separator with flange connection EN 1092-1 with sealing lip Form B1	409784
Pressure separator with flange connection to ANSI B 16.5 with sealing lip Form RF	409786
Ex-i Power supply/input isolating amplifier	707530

[a] The PC interface cable is the connection between the JUMO interface of the pressure transmitter and the USB interface of a PC.
[b] The HART® modem is the connection between the HART® interface of the pressure transmitter and the USB interface of a PC.

Software

Article	Part no.
JUMO Setup dTRANS p20 series	00537577