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JUMO dTRANS p20 DELTA

Differential pressure transmitter

Brief description

The device with HART® interface combines maximum precision with simple operation. It is used to measure the system pressure of gases, steams, and liquids. The integrated LCD display shows measured values and device data.

The version with explosion protection "Ex ia (intrinsically safe)" allows the device to be installed up to zone 0.

The housing and sensors are manufactured from high-grade stainless steel. Diaphragm seals can also be connected for specific process technology applications (see data sheets 409772 to 409784).

The device 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. 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 d" explosion protection version, see data sheet 403023.

For the relative and absolute pressure version, see data sheet 403025 and 403026.



Type 403022/0-0-1-...

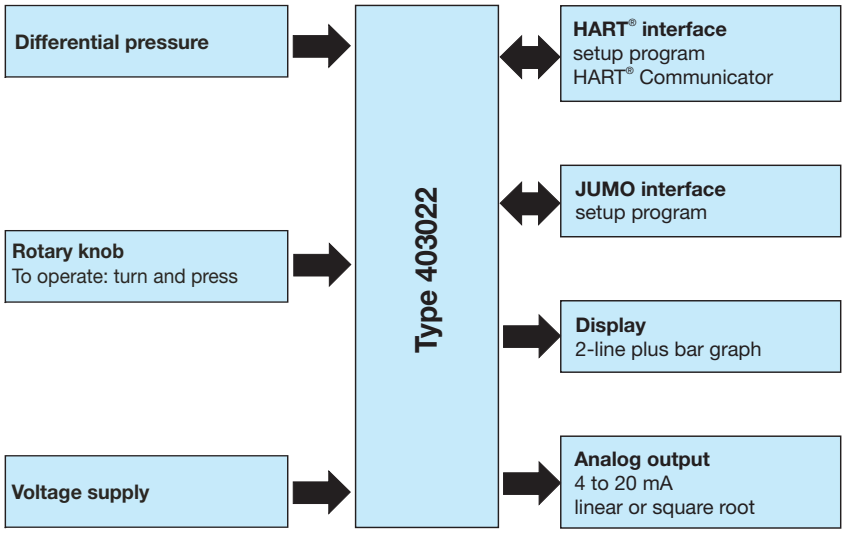


Type 403022/0-0-2-...



Type 403022/0-0-3-...

Block diagram



Special features

- Stainless steel case
- SIL certified (exida)
- HART® interface
- Explosion protection Ex ia (gas and dust) according to ATEX and EAC
- Linearity 0.07 %
- 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
- Characteristic line and display also adjustable for flow measurement

Approvals and approval marks (see technical data)

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Technical data

General Information

Reference conditions	DIN EN 60770 and DIN EN 61298
Ambient temperature	22 °C ±5 K
Air pressure	1000 hPa (±25 hPa)
Voltage supply	DC 24 V
Burden	50 Ω
Sensor system	Silicon sensor with stainless steel separating diaphragm
Pressure transfer medium	
For measuring system filling medium 1	Silicon oil
For measuring system filling medium 2	Halogenized filling oil
Admissible load changes	> 10 million
Position	
Mounting position	Any
Calibration position	Device upright, process connection at the bottom
Zero offset depending on position	≤ 1 mbar
	A zero offset is possible on-site or via setup
Display[a]	LCD, two-line with bar graph
Alignment	Display unit rotatable in 90° steps
	Housing rotatable ±160°
Size	Display 22 × 35 mm, font size 7 mm/5-digits
Color	Black
Portrayable measuring units	
Input pressure	inH_2O, inHg, ftH_2O, mmH_2O, mmHg, psi, bar, mbar, kg/cm^2, kPa, torr, MPa, mH_2O
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
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.

Input

Nominal pressure					
Nominal measuring range	-10 to +10 mbar DP[a]	-1 to +1 bar DP	0 to 1 bar DP	-1 to +6 bar DP	-1 to +100 bar DP
Nominal pressure (bar)	PN2	PN210	PN210, optionally PN420		

[a] Without SIL

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Output

analog output	
For output 405 (4 to 20 mA)	4 to 20 mA, 2-wire
For output 410 (4 to 20 mA with HART®)	4 to 20 mA, two-wire with HART® version 7
Jump response time T60	≤ 190 ms without attenuation
Attenuation	Adjustable 0 to 100 s
Burden	
For output 405 (4 to 20 mA)	Burden ≤ (U_B-12 V) ÷ 0.022 A
For output 410 (4 to 20 mA with HART®)	Burden ≤ (U_B-12 V) ÷ 0.022 A; additional: min. 250 Ω, max. 1100 Ω

Voltage supply

For version	
Explosion protection 0 (none)	DC 12 to 36 V
Explosion protection 1 (ATEX Ex ia)	DC 12 to 28 V The voltage supply must be intrinsically safe and must not exceed the following maximum values: Ui ≤ DC 28 V Ii ≤ 115 mA Pi ≤ 750 mW Ci = 6 nF Li = 105 µH

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Mechanical features

Process connection	
Materials	
Membranes	
For process connection 20 (stainless steel)	Stainless steel 316 L
For process connection 82 (HASTELLOY®)	HASTELLOY® C276, material-no. 2.4819
For process connection 80 (tantalum)	Tantalum
Flange	Stainless steel 316
Seal	PTFE
Housing	
Materials	
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)	Stainless steel 1.4408
For material lid 20 (stainless steel)	Precision casting 1.4408, seal FPM
For material lid 85 (plastic)	PA, seal FPM
For electrical connection 36 (round plug M12 × 1)	Brass, nickel-plated
For electrical connection 82 (cable fitting, plastic)	PA
For electrical connection 93 (cable fitting, metal)	Brass, nickel-plated
For operation 0 (without control knob)	-
For operation 1 (with control knob)	PA
Explosion protection	
For	
Explosion protection 0 (without)	The device is **not** approved for use in an Ex-area.
Explosion protection 1 (ATEX Ex ia)	EC-type examination certificate SEV 09 ATEX 0138 X II 1G Ex ia IIC T4 Ga II 1D Ex ia IIIC T105 °C Da
Weight	
Type 403022/0-0-1 (housing, short)	Approx. 3.0 kg
Type 403022/0-0-2 (housing, long)	Approx. 3.3 kg
Type 403022/0-0-3 (housing, precision casting)	Approx. 4.0 kg
For extra code 694 (increased nominal pressure)	The weight of the device increases by approximately 3.8 kg.

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Environmental influences

Admissible temperatures					
Operation	Version	Temperature class	Maximum medium temperature	Ambient temperature[a]	Increased ambient temperature (extra code 681)[a, b, c]
	Standard		110 °C	-40 to +85 °C	-50 to +85 °C
	II 1G Ex ia	T4	100 °C	-40 to +60 °C	-50 to +60 °C
	II 1D Ex ia	T105 °C	100 °C	-40 to +60 °C	-50 to +60 °C
Storage	-40 to +85 °C				
Admissible humidity					
Operation	100 % including condensation on the device outer case				
Storage	90 % without condensation				
Admissible mechanical load					
Vibration strength	2 g, 10 to 500 Hz according to DIN EN 60770-3				
Shock resistance	15 g for 6 ms according to IEC 60068-2-29				
Electromagnetic compatibility	According to EN 61326				
Interference emission	Class B[d]				
Interference immunity	Industry				
Protection type					
For version					
Explosion protection 0 (without)	IP66/67 according to DIN EN 60529				
Explosion protection 1 (ATEX Ex ia)	IP66 according to DIN EN 60529				

[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. Furthermore, the lid with the device inspection glass must additionally be protected against mechanical impact and shock effects. Please contact JUMO for further details.

[c] Without SIL

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

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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

Differential pressure					
Nominal measuring range	-10 to +10 mbar DP[a]	-1 to +1 bar DP	0 to 1 bar DP	-1 to +6 bar DP	-1 to +100 bar DP
Default measuring range	0 to 10 mbar	0 to 1 bar		0 bar to 6 bar	0 bar to 100 bar
Smallest MSP[b]	1 mbar[c]	5 mbar[c]		0.350 bar	2.5 bar
Turndown ratio (r)[d]	r ≤ 20	r ≤ 400	r ≤ 200	r ≤ 20	r ≤ 40
Non-linearity for reference conditions	0.1 % for r ≤ 2	0.07 % for r ≤ 10		0.07 % for r ≤ 5	
	r × 0.05 % for 2 ≤ r ≤ 20	r × 0.007 % for 10 ≤ r ≤ 400	r × 0.007 % for 10 ≤ r ≤ 400	r × 0.014 % for 5 ≤ r ≤ 20	r × 0.014 % for 5 ≤ r ≤ 40
Accuracy in % of the set MSP at 20 °C	0.2 % for r ≤ 2	0.1 % for r ≤ 10		0.1 % for r ≤ 5	
	r × 0.1 % for 2 ≤ r ≤ 20	r × 0.01 % for 10 ≤ r ≤ 400	r × 0.01 % for 10 ≤ r ≤ 200	r × 0.02 % for 5 ≤ r ≤ 20	r × 0.02 % for 5 ≤ r ≤ 40
Accuracy in % of the set MSP Range: 20 to 85 °C	0.5 % for r ≤ 2 (only to 60 °C)	0.2 % for r ≤ 10		0.2 % for r ≤ 5	
	r × 0.25 % for 2 ≤ r ≤ 20 (only to 60 °C)	r × 0.02 % for 10 ≤ r ≤ 400	r × 0.02 % for 10 ≤ r ≤ 200	r × 0.04 % for 5 ≤ r ≤ 20	r × 0.04 % for 5 ≤ r ≤ 40
Accuracy in % of the set MSP Range: -40 to +20 °C	1.0 % for r ≤ 2	0.6 % for r ≤ 10		0.6 % for r ≤ 5	
	r × 0.5 % for 2 ≤ r ≤ 20	r × 0.06 % for 10 ≤ r ≤ 400	r × 0.06 % for 10 ≤ r ≤ 200	r × 0.12 % for 5 ≤ r ≤ 20	r × 0.12 % for 5 ≤ r ≤ 40
Accuracy in % of the set MSP Range: 60 to 85 °C	2.0 % for r ≤ 2	2.0 % for r ≤ 2		2.0 % for r ≤ 2	
	r × 1.0 % for 2 ≤ r ≤ 20				
Influence of the static pressure P (bar) in % from the nominal measuring range	≤ 1 %	≤ P × 0.0005 %	≤ P × 0.0003 %	≤ P × 0.0025 %	≤ P × 0.001 %
Long-term stability in % as of the nominal measuring range	≤ 0.6 %/year	≤ 0.1 %/year			≤ 0.2 %/year

[a] Without SIL

[b] MSP = measuring span

[c] For the calibration certificate from JUMO the smallest MSP is 10 mbar. MSPs smaller than 10 mbar can be adjusted by the user.

[d] r = span of the nominal measuring range ÷ adjusted measuring span

Approvals and approval marks

Approval mark	Test facility	Certificates/ certification numbers	Inspection basis	Valid for
ATEX	Electrosuisse	SEV 09 ATEX 0138 X, issue 04 (2017-10-13)	EN 60079-0 EN 60079-11 EN 60079-26	403022/x-1-...
EAC TR ZU	RU	RU C-DE.HB07.B.00086/20	TR ZU 012/2011 (Ex)	Extra code 226
SIL	exida	JUMO 2203088 C001	IEC 61508:2010-1/-2/-3	Basic type extension 2

The special conditions for use can be found in the type examination certificate, which is available for download on the Internet on the respective product page.

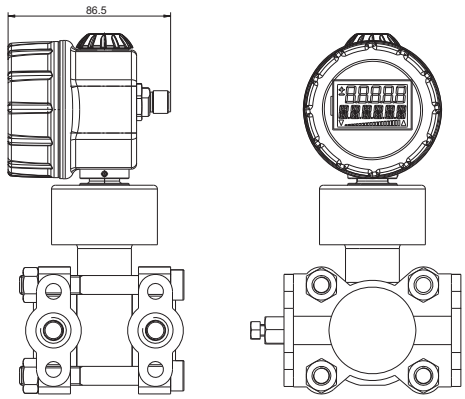
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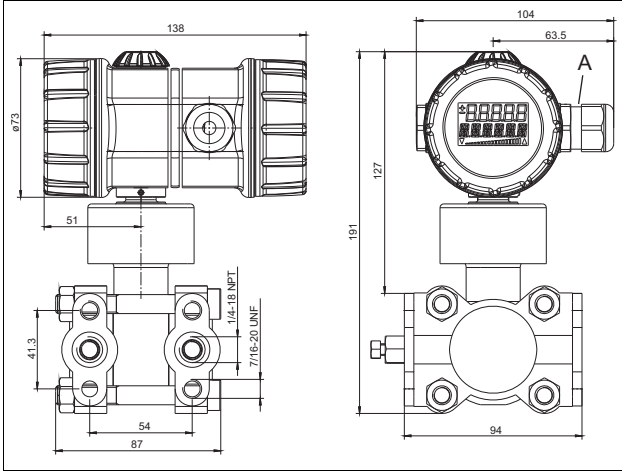
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Dimensions

Type 403022/0-0-1
(short, stainless steel, with M12 connection)

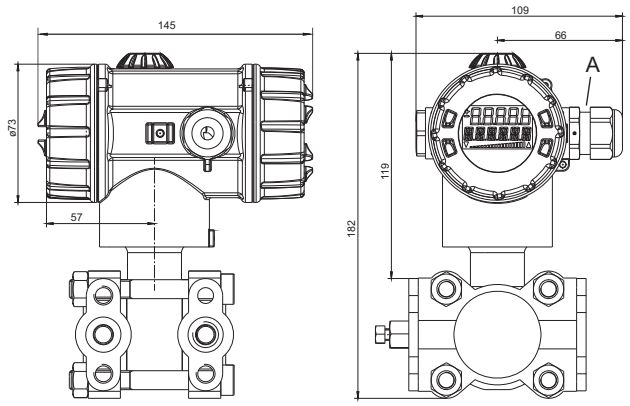


Type 403022/0-0-2
(long, stainless steel, with cable fitting)



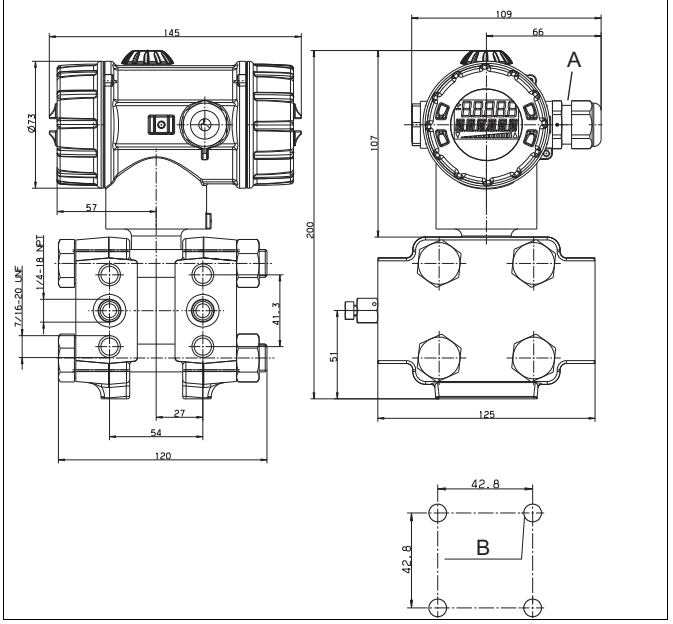
A M20 × 1.5 cable fitting

Type 403022/0-0-3
(precision casting, with cable fitting)



A M20 × 1.5 cable fitting

For extra code 694
(increased nominal pressure PN420)



A M20 × 1.5 cable fitting

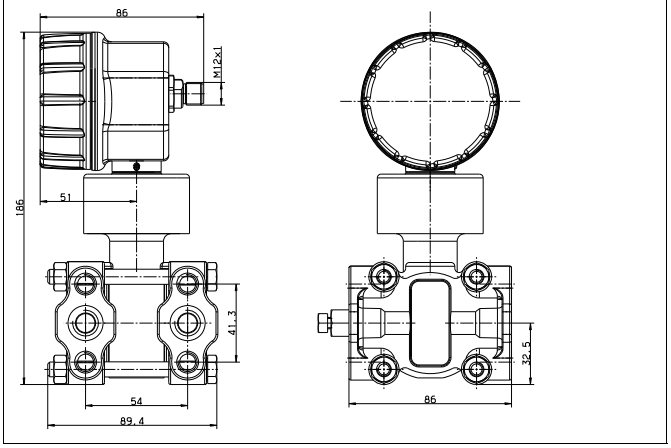
B M8 for mounting

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Type 403022/0-0-1 (without display and operation)
for nominal measuring range -10 to +10 mbar,
nominal pressure PN2 (bar)



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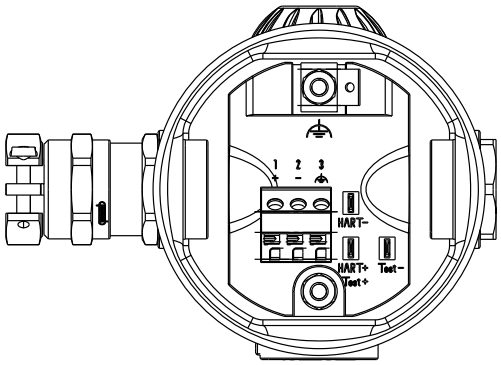
Connection diagram

The connection diagram in the data sheet provides information on product selection.

For the electrical connection, only use the installation instructions or the operating manual.

Connection	**Terminal assignment**	
	82 (plastic), 93 (metal) Cable gland	36 Round plug M12 × 1
Voltage supply DC 12 to 36 V for **none** Ex version DC 12 to 28 V for Ex version	1 L+ 2 L-	1 L+ 3 L-
Output 4 to 20 mA, two-wire Impressed current 4 to 20 mA in voltage supply	1 L+ 2 L-	1 L+ 3 L-
Current output test connection Inherent resistance of ammeter ≤ 10 Ω	TEST + TEST -	
HART® test connection Burden must be present!	HART + HART -	
Functional ground	3	4

Cable fitting



Round plug M12 × 1



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Order details

	(1)	**Basic type**
403022		JUMO dTRANS p20 DELTA – Differential pressure transmitter
	(2)	**Basic type extension**
0		None
2		SIL[a]
9		Special version
	(3)	**Explosion protection**
0		None
1		ATEX Ex ia[b]
	(4)	**Housing**
1		Short, stainless steel, with M12 connection[c]
2		Long, stainless steel, with cable fitting
3		Precision casting, with cable fitting M20
	(5)	**Electrical connection**
36		Round plug M12 × 1
82		Plastic cable fitting
93		Metal cable fitting
	(6)	**Cover material**
20		CrNi (stainless steel)
85		Plastic
	(7)	**Display**
0		None
1		With display (LCD)
	(8)	**Operation**
0		None
1		With control knob
	(9)	**Input – nominal measuring range**
532		0 to 1 bar DP
530		-10 to +10 mbar DP[d]
531		-1 to +1 bar DP
533		-1 to +6 bar DP
534		-1 to +100 bar DP
	(10)	**Output**
405		4 to 20 mA, two-wire, without SIL
410		4 to 20 mA, two-wire with HART® protocol
	(11)	**Process connection**
511		2× pressure connection 1/4-18 NPT according to DIN EN 837
998		Diaphragm seal version, screwed
	(12)	**Process connection material**
20		CrNi (stainless steel)
80		Tantalum
82		NiMo

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	(13)	Measuring system, filling medium
01		Silicon oil
02		Halogenized oil for oxygen application
	(14)	**Extra codes**
000		None
100		Customer-specific factory setting[e]
226		GOST/EAC approval[f]
624		Oil and grease free
633		Mounting brackets for 2" tube
634		TAG number
635		NACE manufacturer's declaration[g]
681		Expanded admissible ambient temperature[h]
694		Increased nominal pressure PN 420 bar

[a] Only available with output 410 and display 1. Not available with input 530 and extra code 681.

[b] Only available with output 410. Not available with electrical connection 82, cover material 85 and process connection material 80.

[c] The housing 1 is only available with electrical connection 36 and vice versa.

[d] Only available with process connection material 20.

[e] Please specify the setting you want in plain text. For default setting see “Accuracy” section in the data sheet.

[f] Available upon request.

[g] Only available with process connection 512, 564 and process connection material 82. Not available with input 530, 531.

[h] Not available with input 530, 531.

	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)		(11)		(12)		(13)		(14)
Order code		/		-		-		-		-		-		-		-		-		-		-		-		/	
Order example	403022	/	0	-	0	-	2	-	82	-	20	-	1	-	1	-	532	-	405	-	511	-	20	-	1	/	000

Accessories

Designation	Part no.
PC interface with USB/TTL converter[a]	00456352
HART® modem USB[b]	00443447
4-pole cable box, straight, M12 × 1 with 2 m PVC cable	00404585
4-pole cable box, angled, M12 × 1 with 2 m PVC cable	00409334
SET oval flange 1/2“ NPT/accessory set 7/16-20UNF	00543775
Ex-i Power supply/input isolating amplifier, Type 707530	00577948
Mounting brackets, set includes screws 7/16-20UNF	00543777

Designation	Data sheet
Valve manifolds	409706
Diaphragm seal with dairy pipe fitting DIN 11851	409772
Diaphragm seal with clamp connection	409774
Diaphragm seal with DRD flange or VARIVENT® socket	409776
Diaphragm seal with ISS/SMS/RJT socket and (grooved) union nut	409778
Membrane diaphragm seal 4MDV-10	409780
Diaphragm seal with screw-in thread DIN ISO 228/1 or ANSI B1.201	409782
Diaphragm seal with flange connection DIN EN 1092-1 with sealing strip form B1	409784
Diaphragm seal with flange connection according to ANSI B 16.5 with sealing strip form RF	409786
Ex-i repeater power supply/input isolating amplifier	707530

[a] The PC interface cable is the connection between the JUMO interface of the differential pressure transmitter and the USB interface of a PC.

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

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Software

Description	Part no.
JUMO setup dTRANS p20 series	00537577
Device Type Manager (DTM), JUMO dTRANS p20	00738288

Stock versions

Order code	Input	Process connection	Part no.
403022/0-1-1-36-20-1-1-530-410-511-20-01/000	-10 to +10 mbar DP	2× pressure connection 1/4-18NPT DIN EN 837	00569267
403022/0-1-1-36-20-1-1-532-410-511-20-01/000	0 to 1 bar DP		00573301