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JUMO dTRANS p20 DELTA

Differential pressure transmitter

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/-3:2010. 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 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-...



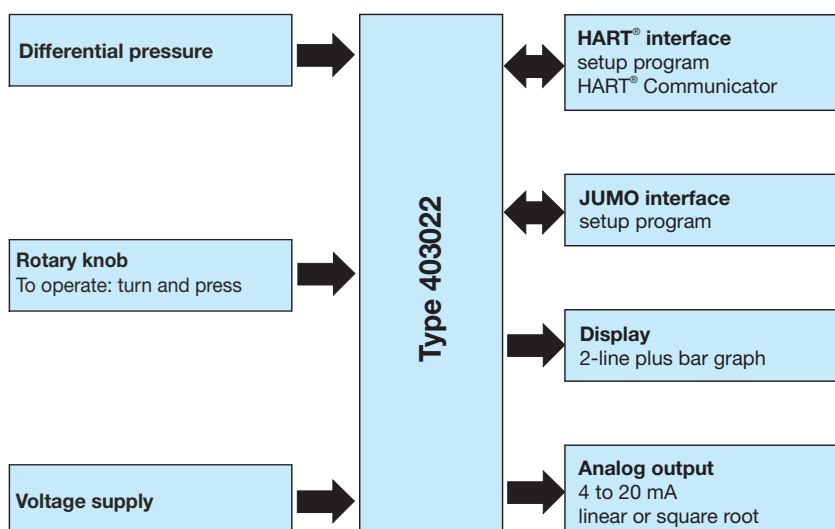
Type 403022/0-0-2-...



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 UKEX
- 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

Approval marks and certificates



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Approval marks and certificates

	Designation	ATEX
	Testing agency	Eurofins Electrosuisse Product Testing AG
	Certificate no.	SEV 09 ATEX 0138 X
	Inspection basis	EN 60079-0, EN 60079-11, EN 60079-26
	Valid for	Type 403022/x-1
	Designation	UKEX
	Testing agency	Bureau Veritas
	Certificate no.	EPS 22 UKEX 1 369 X
	Inspection basis	EN 60079-0, EN 60079-11, EN 60079-26
	Valid for	Type 403022/x-1 with extra code 085
	Designation	SIL
	Testing agency	exida
	Certificate no.	JUMO 2203088 C001
	Inspection basis	IEC 61508-1/-2/-3:2010
	Valid for	Type 403022 with basic type extension 2

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

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

Technical data

General Information

Reference conditions	DIN EN 60770, 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 ₂ O, inHg, ftH ₂ O, mmH ₂ O, mmHg, psi, bar, mbar, kg/cm ² , kPa, torr, MPa, mH ₂ O
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

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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 1G Ex ia IIC T4 Ga II 1D Ex ia IIIC T ₂₀₀ 125 °C Da
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Electrical data

Voltage supply for version	DC 12 to 36 V
Explosion protection 0 (none)	DC 12 to 28 V
Explosion protection 1 (ATEX Ex ia)	The voltage supply must be intrinsically safe and must not exceed the following maximum values: U _i ≤ DC 28 V I _i ≤ 115 mA P _i ≤ 750 mW C _i = 6 nF L _i = 105 µH

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Inputs

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

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

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

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Outputs

Analog output For output 405 (4 to 20 mA) For output 410 (4 to 20 mA with HART) Jump response time T_{60} Attenuation	4 to 20 mA, two-wire 4 to 20 mA, two-wire with HART version 7 ≤ 190 ms without attenuation Adjustable 0 to 100 s
Burden For output 405 (4 to 20 mA) For output 410 (4 to 20 mA with HART)	$Burden \leq (U_B - 12 \text{ V}) \div 0.022 \text{ A}$ $Burden \leq (U_B - 12 \text{ V}) \div 0.022 \text{ A}$; additional: min. 250 Ω , max. 1100 Ω

Environmental influences

Admissible temperatures					
Operation	Version	Temperature class	Maximum medium temperature	Ambient temperature ^a	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	T ₂₀₀ 125 °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	DIN EN 60770-3, IEC 60068-2-29				
Vibration strength	2 g, 10 to 500 Hz				
Shock resistance	15 g for 6 ms				
Electromagnetic compatibility	DIN EN 61326-2-3:2022				
Interference emission	Class B ^d				
Interference immunity	Industry				
Protection type	DIN EN 60529				
For version					
Explosion protection 0 (without)	IP66/67				
Explosion protection 1 (ATEX Ex ia)	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 Materials Membranes Process connection 20 (stainless steel) Process connection 82 (HASTELLOY) Process connection 80 (Tantalum) Flange Seal	316L 2.4819/HASTELLOY C-276 Tantalum 316 PTFE
Housing Materials Housing 1 (short, stainless steel) Housing 2 (long, stainless steel) Housing 3 (precision casting) Material lid 20 (stainless steel) Material lid 85 (plastic) Electrical connection 36 (M12 plug connector) Electrical connection 82 (cable fitting, plastic) Electrical connection 93 (cable fitting, metal) Operation 0 (without control knob) Operation 1 (with control knob)	1.4404 1.4404, VMQ 1.4408 1.4408, seal FPM PA, seal FPM Brass, nickel-plated PA Brass, nickel-plated — PA
Weight Type 403022/0-0-1 (housing, short) Type 403022/0-0-2 (housing, long) Type 403022/0-0-3 (housing, precision casting) Extra code 694 (increased nominal pressure)	~ 3.0 kg ~ 3.3 kg ~ 4.0 kg The weight of the device increases by ~ 3.8 kg.

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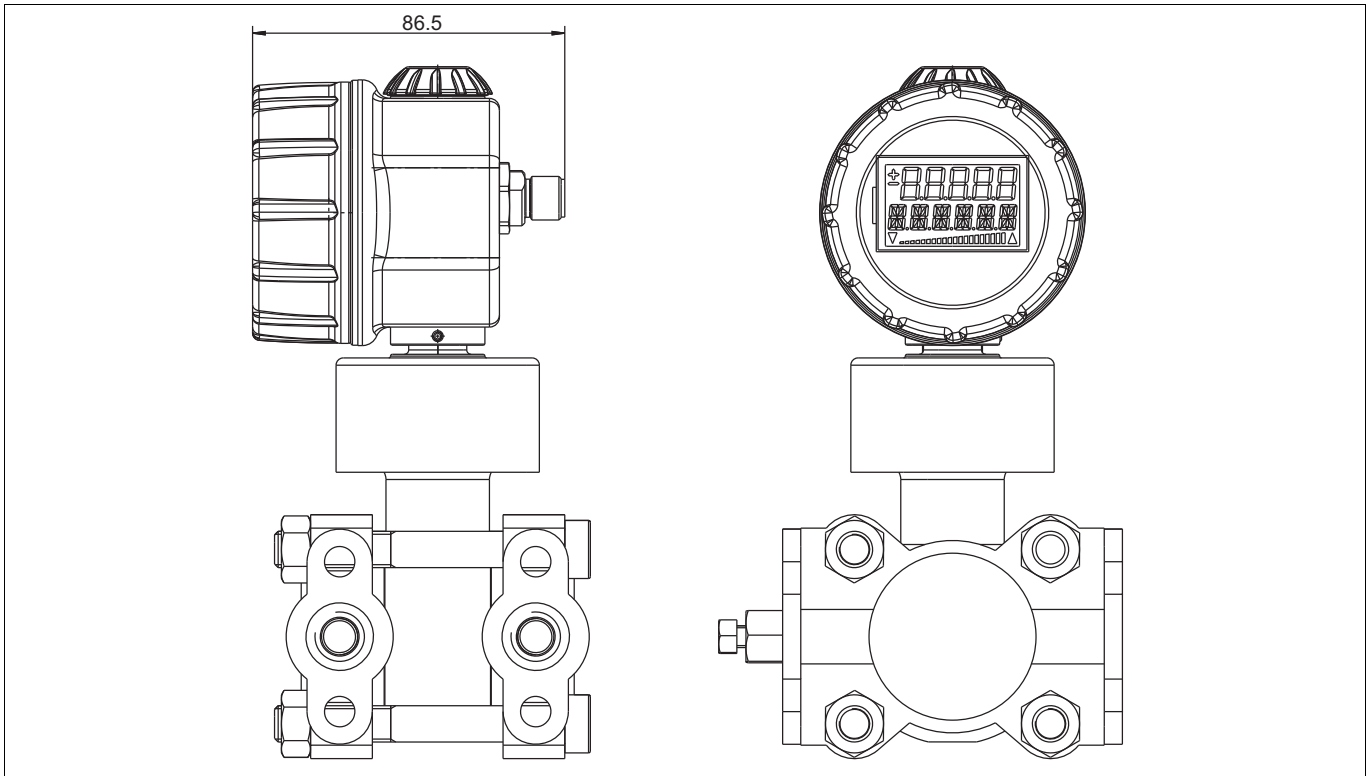
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Dimensions

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



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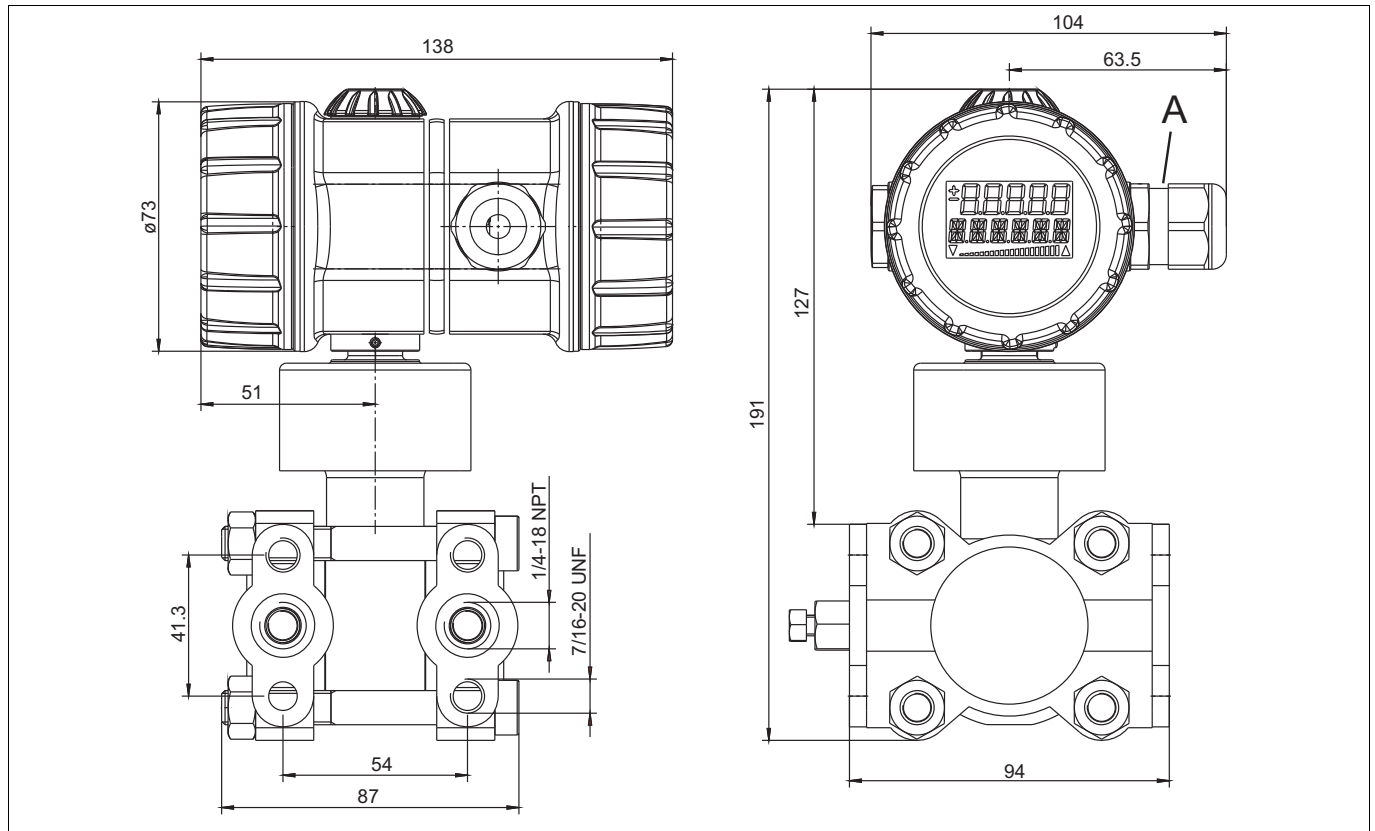
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Type 403022/0-0-2 (long, stainless steel, with cable fitting)



A M20 × 1.5 cable fitting

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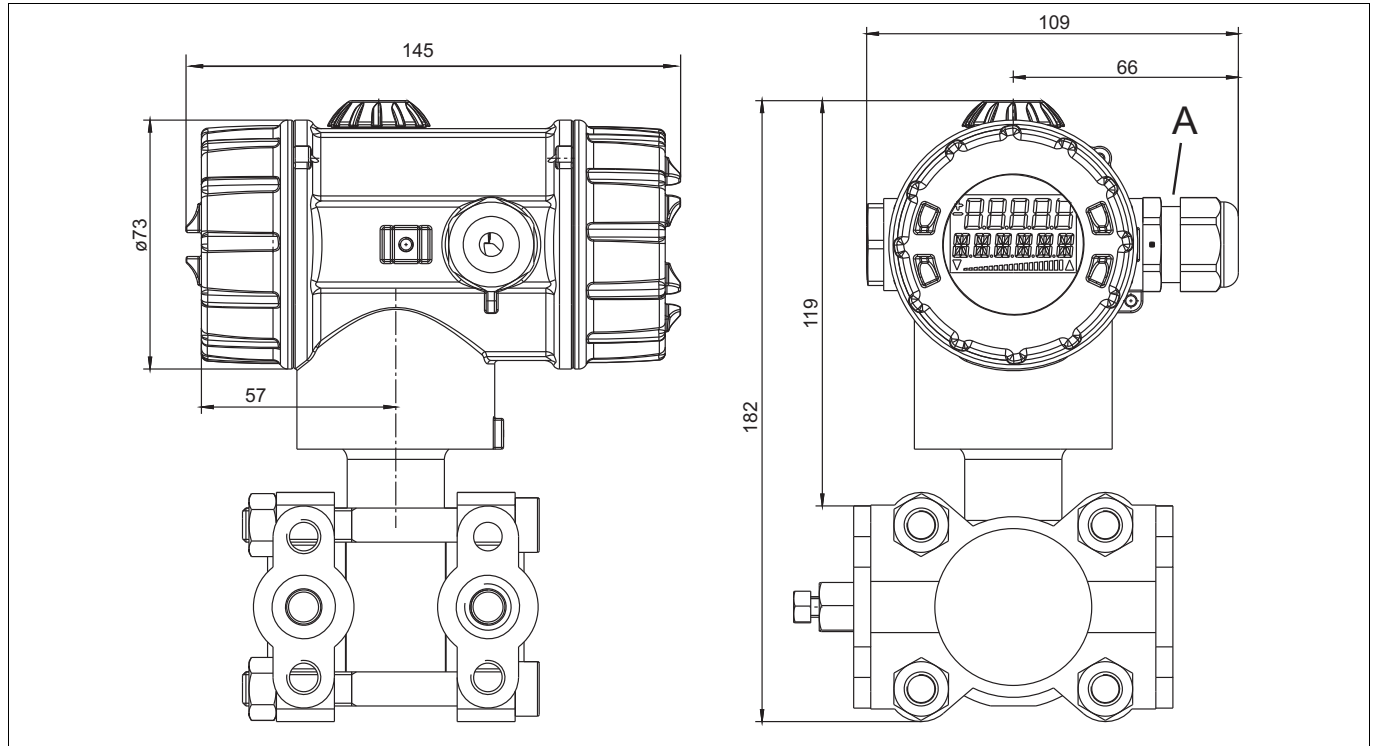
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Type 403022/0-0-3 (precision casting, with cable fitting)



A M20 × 1.5 cable fitting

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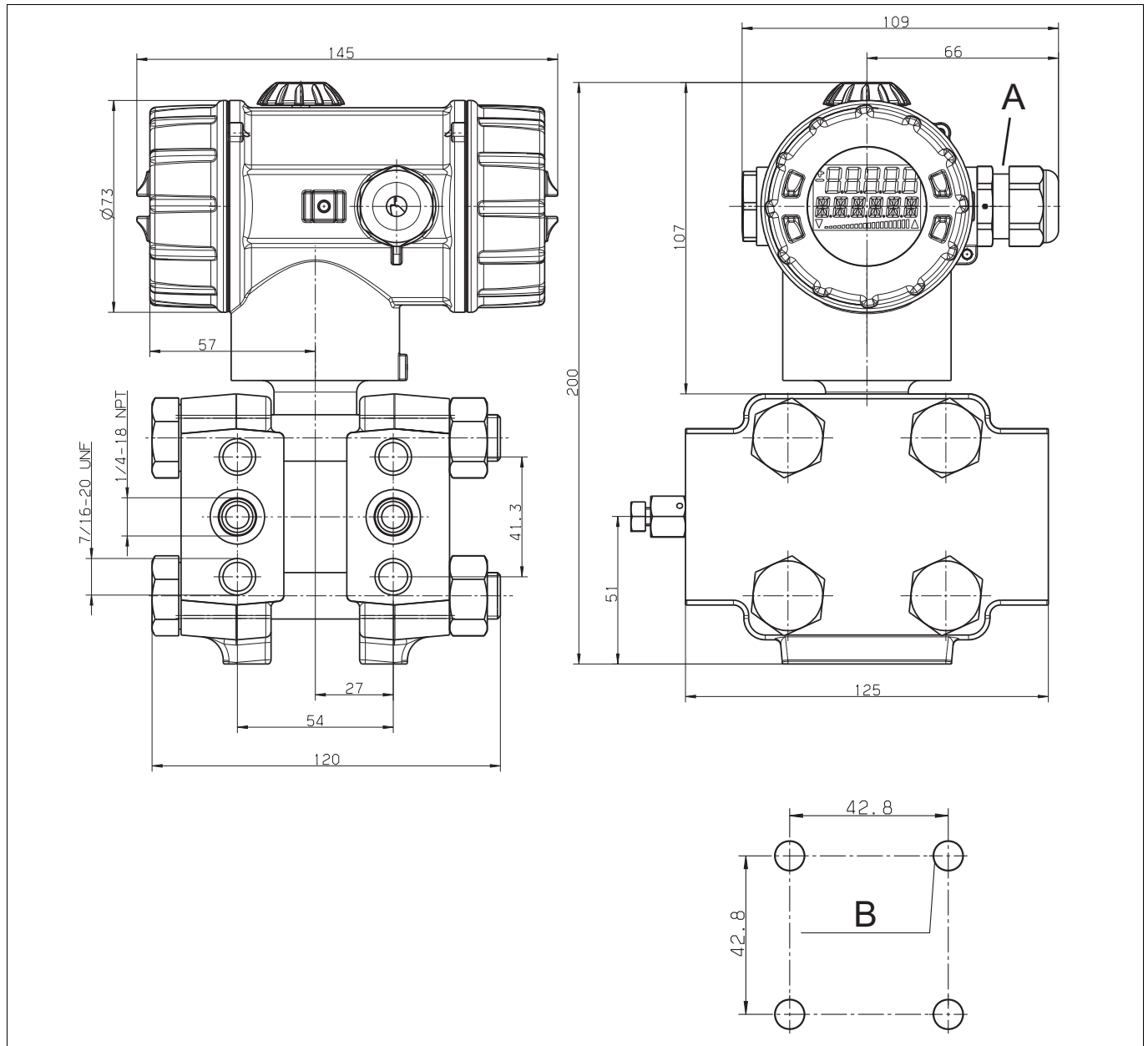
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Extra code 694 (increased nominal pressure PN420)



A M20 × 1.5 cable fitting

B M8 for mounting

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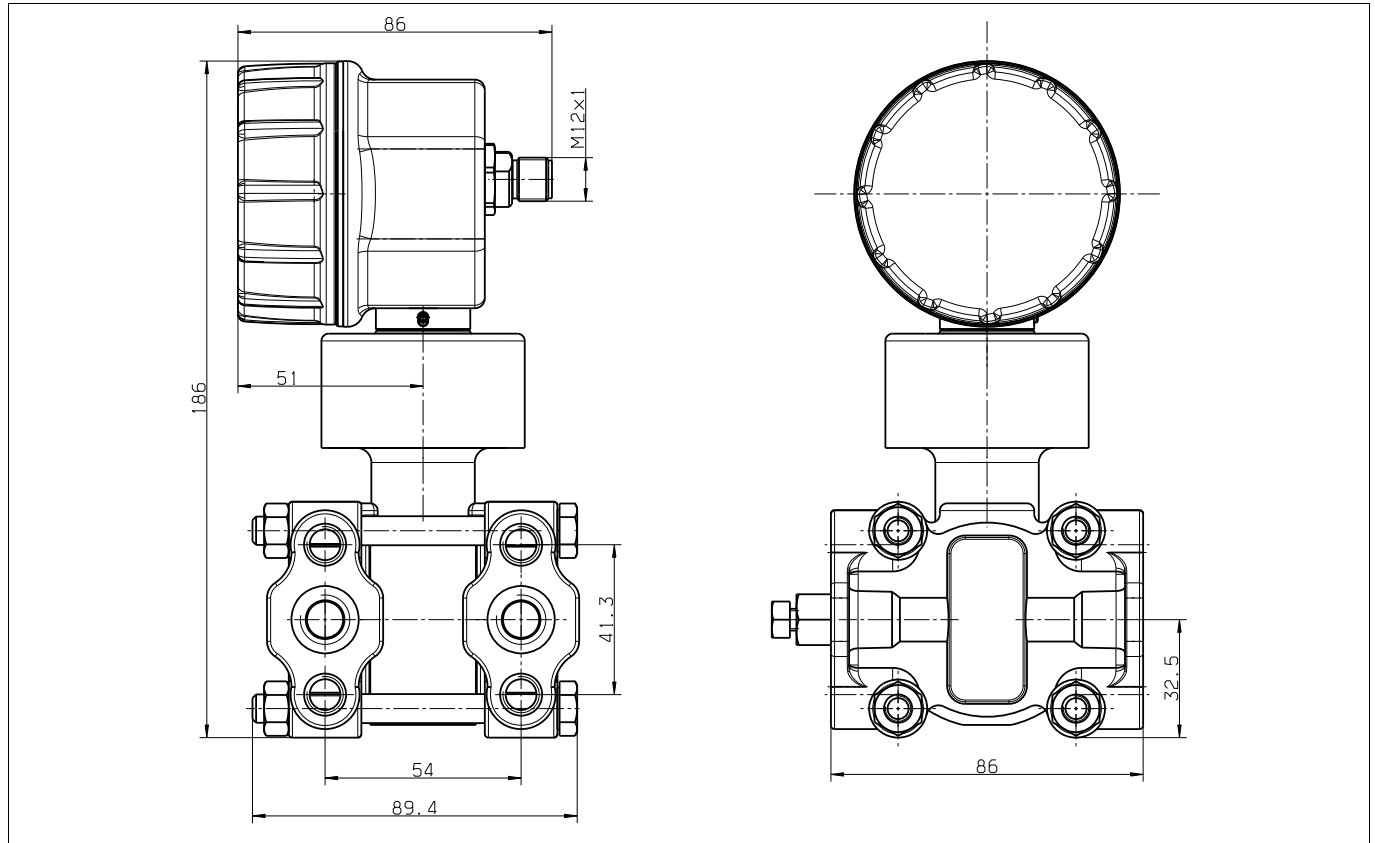
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Type 403022/0-0-1 (without display and operation) for nominal measuring range -10 to +10 mbar, nominal pressure PN2 (bar)



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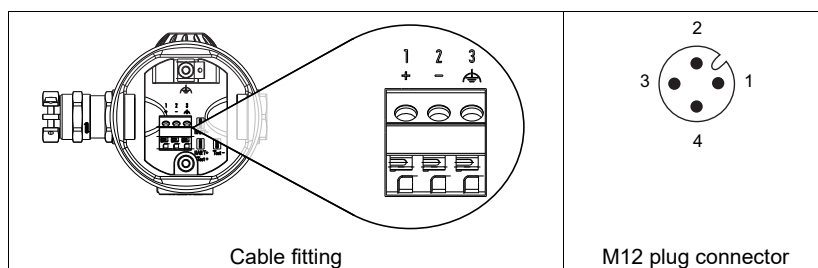
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Connection elements

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 for device version without Ex DC 12 to 36 V for device version with Ex DC 12 to 28 V		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 $\leq 10 \Omega$		TEST + TEST -	
HART test connection Burden must be present!		HART + HART -	
Functional ground		3	4

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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, b}
	(3) Explosion protection
0	None
1	ATEX Ex ia ^c
	(4) Housing
1	Short, stainless steel, with M12 connection ^d
2	Long, stainless steel, with cable fitting
3	Precision casting, with cable fitting M20
	(5) Electrical connection
36	M12 plug connector
82	Plastic cable fitting
93	Metal cable fitting
	(6) Cover material
20	CrNi (stainless steel)
85	Plastic
	(7) Display
0	None
1	Display (LCD)
	(8) Operation
0	None
1	Control knob
	(9) Input – nominal measuring range
532	0 to 1 bar DP
530	-10 to +10 mbar DP ^b
531	-1 to +1 bar DP ^b
533	-1 to +6 bar DP
534	-1 to +100 bar DP
	(10) Output
405	4 to 20 mA, two-wire
410	4 to 20 mA, two-wire with HART protocol
	(11) Process connection
511	2× pressure connection 1/4" – 18 NPT, DIN EN 837
998	Diaphragm seal version, screwed
	(12) Process connection material
20	CrNi (stainless steel)
80	Tantalum
82	NiMo
	(13) Measuring system, filling medium
01	Silicon oil
02	Halogenized oil for oxygen application
	(14) Extra codes
000	None
085	UKEX
100	Customer-specific factory setting ^e
624	Oil and grease free

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633	Mounting brackets for 2" tube
634	TAG number
635	NACE manufacturer's declaration ^f
681	Expanded admissible ambient temperature ^g
694	Increased nominal pressure PN 420 bar

^a Only available with output 410 and display 1. Not available with input 530, process connection 998, or extra code 681.

^b Only available with process connection material 20.

^c Only available with output 410. Not available with electrical connection 82, cover material 85.

^d The housing 1 is only available with electrical connection 36 and vice versa.

^e Specify in plain text. Default setting see "Measuring range and accuracy".

^f Only available with process connection 512, 564 and process connection material 82. Not available with input 530, 531.

^g Not available with input 530, 531.

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

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	00569267
403022/0-1-1-36-20-1-1-532-410-511-20-01/000	0 to 1 bar DP	1/4-18NPT DIN EN 837	00573301

Accessories

Designation	Part no.
Line socket, 4-pole, M12 × 1, straight, length 2 m	00404585
Line socket, 4-pole, M12 × 1, angled, length 2 m	00409334
PC interface with USB/TTL converter	00456352
HART modem, USB	00443447
Ex-i repeater power supply and input isolating amplifier	00577948
Mounting bracket for differential pressure transmitter	00543777
Calibration of the mechanical measurement value pressure on site (also DAkkS)	00758363
Designation	Data sheet
Valve blocks	409706
Diaphragm seal with dairy pipe fitting	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
Diaphragm seal with membrane	409780
Diaphragm seal with screw-in thread DIN ISO 228/1 or ANSI B 1.201	409782
Diaphragm seal with flange connection according to DIN EN 1092-1 with sealing strip form B1	409784
Diaphragm seal with flange connection according to ANSI B 16.5 with sealing strip type RF	409786

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

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

Designation	Part no.
JUMO setup dTRANS p20 series	00537577
SW Device Type Manager (DTM) 403025 DTM	00738288

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