

JUMO dTRANS p20 – Process Pressure Transmitter with Display (403025)

- HART® interface
- Optional explosion protection [Ex ia] according to ATEX, GOST-R, DNV
- Linearity 0.05 %
- Turn down: 1:50
- Simple operation with rotary knob



Order details

(1) Basic type	
403025	JUMO dTRANS p20
(2) Basic type extension	
0	No
2	SIL
(3) Explosion protection	
0	Without explosion protection
1	ATEX Ex ia
(4) Housing	
1	Short, stainless steel, M12 connection
2	Long, stainless steel, with cable gland
3	Long, precision casting, with cable gland
(5) Electrical connection	
36	Round plug M12 × 1
82	Cable fitting
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 operating knob
1	With operating knob
(9) Input	
472	-1 to 10 bar relative pressure
450	-600 to 600 mbar relative pressure
473	-1 to 2.5 bar relative pressure
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
507	0 to 100 bar absolute pressure
508	-1 to 250 bar relative pressure
513	-1 to 4 bar relative pressure
514	-1 to 25 bar relative pressure
515	-1 to 100 bar relative pressure
516	-1 to 600 bar relative pressure
(10) Output	
405	4 to 20 mA 2-wire
410	4 to 20 mA 2-wire with HART protocol
(11) Process connection	
504	G 1/2 DIN EN 837
512	1/2-14NPT DIN EN 837
559	M20 x 1,5 DIN 3852-11

564	1/2-14NPT female
571	G 3/4 front flush DIN EN ISO 228-1
583	M20 x 1,5 with tap
604	Taper socket with union nut DN 25 DIN 11851 (dairy compression fitting)
606	Taper socket with union nut DN 40 DIN 11851 (dairy compression fitting)
613	Clamping socket (clamp) DN 25/32/40 DIN 32676 (1 1/2" ISO 2852)
616	Clamping socket (Clamp) DN 50 DIN 32676 (2" ISO 2852)
653	Tank conn. with slotted union nut DN 40
997	JUMO PEKA adapter system
998	Diaphragm seal, version with screw connection
(12) Medium temperature	
1	Up to 120°C
2	Up to 200°C
(13) Process connection material	
20	CrNi (stainless steel)
82	NiMo
(14) Filling medium measuring syst.	
00	Without filling medium
01	Silicone oil
(15) Extra codes	
000	Without extra code
085	UKEX
100	Customer-specific configuration (specifications in plain text)
226	With GOST/EAC approval
374	Inspection certificate 3.1 material DIN EN 10204
452	Wetted, electrolytically polished parts
591	Throttle in pressure duct
624	Free from oil and grease
630	Enlarged pressure duct
634	With TAG-number
635	Manufacturer's declaration NACE
681	Extended allowed ambient temperature
691	Improved humidity and vibration protection
870	Inspect. certificate 3.1 surface finish
871	Inspection certificate 3.1 accuracy
880	With DNV-GL-approval
1160	H2 ready - mobile hydrogen applications

Order code

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15)
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Order details – further information

Basic type extension 2 and 3

SIL is only available with 4 to 20 mA HART® protocol (410), extra code HART® version 5 (932) and not with measuring ranges (472, 473, 508, 516, 490, 493). Not available with extra code 681 (expanded admissible ambient temperature available). SIL devices are always delivered with display (1).

Explosion protection 1

ATEX [Ex ia] does not apply in connection with a cable fitting made out of plastic (82), a plastic cover (85), and the output 4 to 20 mA (405).

Housing 1

The short housing is only available with a round plug M12 × 1 (36) as electrical connection.

Inputs 507, 515

These inputs are not available with the process connections 604, 606, 613, 616.

Input 516

This input is not available with process connections 571, 604, 606, 613, 616, 997.

Medium temperature 1

For the explosion protection ATEX [Ex ia] (1) a maximum temperature of 115 °C applies.

Medium temperature 2

For the explosion protection ATEX [Ex ia] (1) a maximum temperature of 175 °C applies.

Extra code 100

Please specify the setting you want in plain text. For factory setting see "Accuracy" section in data sheet.

Extra code 635

Only with material process connection 82 (NiMo) and with process connection 512 or 564. Not for pressure ranges 0 to 600 mbar absolute and -600 to 600 mbar relative pressure.

Extra code 880

Only with explosion protection 1 ATEX [Ex ia] and not with input nominal measuring range 516.

Extra code 226

Upon request.



Accessories

Description	Part no.
Line socket 4-pole, M12×1, straight, 2 m	00404585
Line socket 4-pole, M12 × 1, angled, 2 m	00409334
PC interface with converter USB/TTL	00456352
HART Communication Modem	00443447
Ex-i repeater power supply and input iso amplifier 707530/38	00577948
Mounting bracket for 2" pipe and wall	00597711
Calibration of the mechanical measurand, pressure on site (also DAKKS)	00758363

Accessories see price sheet:

- Manifolds (Type 409706)
- JUMO PEKA – Hygienic Process Connection (409711)
- Diaphragm Seal with Dairy Pipe Fitting DIN 11851 (409772)
- Pressure Separator with Clamp Connection (409774)
- Pressure Separator with DRD Flange or VARIVENT Socket (Type 409776)
- Pressure Separator with ISS/SMS/RJT Socket and (Grooved) Union Nut (409778)
- Diaphragm Seal with Membrane 4MDV-10 (409780)
- Pressure Separator with Screw-In Thread DIN ISO 228/1 or ANSI B 1.201 (409782)
- Pressure Separator with Flange Connection DIN EN 1092-1 with Sealing Strip Form B1 (409784)
- Pressure Separator with Flange Connection According to ANSI B 16.5 with Sealing Strip Form RF (409786)

Software

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