

## JUMO dTRANS p33 - Pressure Transmitter or Level Probe for Use in Ex-Areas (404753)

- Pressure transmitter or level probe
- ATEX approval
- Measuring ranges: 250 mbar to 600 bar relative and 600 mbar to 25 bar absolute
- Medium temperature: -40 to +85 °C, optionally to 200 °C (SIP and CIP capable)
- Accuracy: 0.5 % MSP (linearity)
- Protection type: IP65



Particularly for the level probe variant (IP68):

- Measuring ranges: 250 mbar to 10 bar (2.5 to 100 mWS)
- Medium temperature: 0 to 50 °C

### Order details

<b>(1) Basic type</b>	
404753/000	JUMO dTRANS p33 Ex
404753/004	JUMO dTRANS p33 Ex for elevated medium temperatures up to 200 °C
<b>(2) Input</b>	
451	0 to 0.25 bar relative pressure
452	0 to 0,4 bar relative pressure
453	0 to 0.6 bar relative pressure
454	0 to 1 bar relative pressure
455	0 to 1.6 bar relative pressure
456	0 to 2.5 bar relative pressure
457	0 to 4 bar relative pressure
458	0 to 6 bar relative pressure
459	0 to 10 bar relative pressure
460	0 to 16 bar relative pressure
461	0 to 25 bar relative pressure
462	0 to 40 bar relative pressure
463	0 to 60 bar relative pressure
464	0 to 100 bar relative pressure
465	0 to 160 bar relative pressure
466	0 to 250 bar relative pressure
467	0 to 400 bar relative pressure
468	0 to 600 bar relative pressure
475	-0.25 to 0 bar relative pressure
476	-0.4 to 0 bar relative pressure
477	-0.6 to 0 bar relative pressure
478	-1 to 0 bar relative pressure
479	-1 to 0.6 bar relative pressure
480	-1 to 1.5 bar relative pressure
481	-1 to 3 bar relative pressure
482	-1 to 5 bar relative pressure
483	-1 to 9 bar relative pressure
487	0 to 0.6 mbar absolute pressure
488	0 to 1 bar absolute pressure
489	0 to 1.6 bar absolute pressure
490	0 to 2.5 bar absolute pressure
491	0 to 4 bar absolute pressure
492	0 to 6 bar absolute pressure
493	0 to 10 bar absolute pressure
494	0 to 16 bar absolute pressure
495	0 to 25 bar absolute pressure
998	Special measuring range absolute pressure
999	Special measuring range relative pressure
<b>(3) Output</b>	
405	4 to 20 mA 2-wire

<b>(4) Process connection</b>	
502	G 1/4 DIN EN 837
504	G 1/2 DIN EN 837
511	1/4-18NPT DIN EN 837
512	1/2-14NPT DIN EN 837
523	G 1/2 DIN 3852-11
567	Level probe: G 1/4 inner
571	G 3/4 front flush DIN EN ISO 228-1
574	G 1/2 front flush, with double gasket
575	G 3/4 front flush, with double gasket
576	G 1 front flush, with double gasket
581	G 1 front flush, with taper seal
603	Taper socket with union nut DN 20 DIN 11851 (dairy compression fitting)
604	Taper socket with union nut DN 25 DIN 11851 (dairy compression fitting)
605	Taper socket with union nut DN 32 DIN 11851 (dairy compression fitting)
606	Taper socket with union nut DN 40 DIN 11851 (dairy compression fitting)
607	Taper socket with union nut DN 50 DIN 11851 (dairy compression fitting)
612	Clamping socket (clamp) DN 10/15/20 DIN 32676 (1" ISO 2852)
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)
652	Tank conn. with slotted union nut DN 25
658	Connection closed level probe
659	Level probe: connection open at bottom
685	VARIVENT connection DN 32/25
<b>(5) Process connection material</b>	
20	CrNi (stainless steel)
<b>(6) Electrical connection</b>	
12	Fixed connecting cable encapsulated
36	Round plug M12 × 1
61	Connector for cable connection DIN EN 175301-803, form A
75	Terminal head
<b>(7) Filling medium measuring syst.</b>	
0	Without filling medium
1	Silicone oil
<b>(8) Extra codes</b>	
000	Without extra code
240	With EAC-Ex approval
374	Inspection certificate 3.1 DIN EN 10204 material
406	Level measuring probe: protection IP68, fixed connecting cable, category 2G, zone 1
407	level measuring probe: protection IP68, fixed connecting cable, category 1G, zone 0
452	Wetted, electrolytically polished parts
624	Free from oil and grease
634	With TAG-number
769	With calibration certificate
954	Technical passport

**Order code**

(1) (2) (3) (4) (5) (6) (7) (8)  
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**Order details – further information**
**Basic type 404753/004**

Basic type 404753/004 (increased medium temperature) is not available with inputs 451, 452, 453, 465, 466, 467, 468, 475, 476, 477, 487.

**Process connections 567, 658, 659**

Process connections 567, 658, and 659 are only available with inputs 451, 452, 453, 454, 455, 456, 457, 458, and 459.

**Process connection 567**

Process connection 567 is not possible in conjunction with extra code 407 (level probe for zone 0).

**Process connections 658, 659**

Process connections 658 and 659 are only possible in connection with extra codes 406 (level probe for zone 1) or 407 (level probe for zone 0).

**Process connection 571**

Process connection 571 is not available with the inputs 465, 466, 467, and 468.

**Process connection 574**

Process connection 574 is not available with the inputs 451, 452, 453, 468, 475, 476, 477, and 487.

**Process connections 575, 576**

Process connections 575 and 576 are not available with inputs 465, 466, 467, and 468.

**Process connections 603, 604, 605, 606, 607, 612, 613, 616, 652, 685**

The process connections are not available with inputs 462, 463, 464, 465, 466, 467, 468.

**Extra codes 406, 407**

Please specify the cable length for extra codes 406 (level probe for zone 1) or 407 (level probe for zone 0) in plain text. The standard material is polyethylene. For the order code select electrical connection 12 "Fixed shielded connecting cable".

**Extra code 407**

The operator must select the overall system in such a way so that a suitable zone isolation is ensured. This must be implemented by including a protection tube and screw connection according to EN 60079-1. The applicable requirements are described in the operating manual.

**Additional information**

Further information about our level probes from the JUMO MAERA series can be found in the brochure "Level Probes - Hydrostatic Level and Filling Level Measurement" in the Download category of the selected product group.


**Accessories**

Description	Part no.
Line socket 4-pole, M12×1, straight, 2 m	00404585
Line socket 4-pole, M12 × 1, angled, 2 m	00409334
Terminal box with pressure compensation	00061206
Cable holder	00061389
Pressure equalization filter for cable	00382632
Sealing screw	00333329
Ex-i repeater power supply and input iso amplifier 707530/38	00577948
Calibration of the mechanical measurand, pressure on site (also DAkkS)	00758363

Accessories see price sheet:

- Ex-i Repeater Power Supply / Input Isolating Amplifier (707530)