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Data Sheet 401020

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JUMO MIDAS H20 HP

OEM Pressure Transmitter - High Pressure

Applications

- · Mobile hydraulics, such as forklifts, harvesters, and construction machinery
- Injection molding machines
- · Laundry/cleaning systems
- · Welding machines
- Industrial hydraulics

Brief description

The pressure transmitter is used for measuring the pressure of liquid and gaseous media. The product is based on the thin-film measuring principle. The measured pressure is converted into an electrical standard signal of voltage or current and is output via various electrical connections. These include connector variants such as M12, Deutsch DT, Metri-Pack, or AMP. An attached cable and the cable socket are also available.

ECE type approval is available for applications such as those required in mobile hydraulics.

The high degree of resistance to vibration and shock, combined with the high insulation voltage guarantees reliable operation even in difficult conditions. The compact design type of the pressure transmitter provides greater spatial freedom in its use.



Type 401020 with Metri-Pack connector variant



Type 401020 with AMP connector variant

Customer benefits

- · Impervious to pressure peaks
- Highly resistant to shock and vibration
- Robust product design
- Standard connector variants available
- Can be used in harsh conditions thanks to mechanical and electrical stability
- Welded sensor technology ensures long-term tightness against leaks
- Standardization
- Protection against leaks of oil or other measuring media thanks to high bursting strength
- · High accuracy even when used in fluctuating temperature conditions
- Compact design type saves space

Special features

- Measuring ranges from 100 to 1000 bar
- Temperature ranges from -40 to +125 °C
- Compact design type from 35 mm in length
- Electric strength of AC 500 V
- Protection types up to IP69K
- ECE type approval

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Approvals

c FL us	Testing agency	Underwriters Laboratories
C # 100	Certificate no.	E201387
	Inspection basis	UL 61010-1 (3. Ed.), CAN/CSA-22.2 No. 61010-1 (3. Ed.)
	Valid for	Type 401020//061
	Testing agency	NSAIO (National Standards Authority of Ireland)
(L 24)	Certificate no.	E24 10R-051971
	Inspection basis	UN ECE R10
	Valid for	Type 401020

Technical data

General Information

Reference conditions	DIN 16086 and DIN EN 60770
Sensor	
Measuring principle	Thin-film technology
Admissible load changes	> 10 million
Mounting position	Any
Calibration position	Device upright, process connection at the bottom

Electrical data

Voltage supply U _B ^a				
4 to 20 mA, two-wire	DC 10 to 30 V, rated voltage supply DC 24 V			
DC 0.5 to 4.5 V, three-wire	DC 4.5 to 5.5 V, rated voltage supply DC 5 V, ratiometric output 10 to 90 % of the voltage supply			
DC 0 to 10 V, three-wire	DC 12 to 30 V, rated voltage supply DC 24 V			
DC 1 to 5 V, three-wire	DC 9 to 30 V, rated voltage supply DC 24 V			
DC 1 to 6 V, three-wire	DC 9 to 30 V, rated voltage supply DC 24 V			
Current consumption incl. load				
4 to 20 mA, two-wire	≤ 25 mA			
DC 0.5 to 4.5 V, three-wire	≤ 10 mA			
DC 0 to 10 V, three-wire	≤ 5 mA			
DC 1 to 5 V, three-wire	≤ 5 mA			
DC 1 to 6 V, three-wire	≤ 5 mA			
Reverse voltage protection				
4 to 20 mA, two-wire	Yes			
DC 0.5 to 4.5 V, three-wire	No			
DC 0 to 10 V, three-wire	Yes			
DC 1 to 5 V, three-wire	Yes			
DC 1 to 6 V, three-wire	Yes			
Electrical circuit	SELV			
Requirements	The device must be equipped with an electrical circuit that meets the requirements of EN 61010-1 with regard to "Limited-energy circuits".			

Residual ripple: the voltage peaks must not exceed or fall below the specified voltage supply values!

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Inputs

Measuring range and accuracy

Measuring range	Linearity ^a	Accuracy	at		Long-term	Overload	Burst
		20 °C ^d	-10 to +85 °C	-20 to +100 °C ^e	stability ^b	capacity ^c	pressure
bar	% MSP ^f	% MSP	% MSP	% MSP	% MSP	bar	bar
					per year		
0 to 100 bar relative pressure	0.5	0.7	1	1.5	≤ 0.2	200	500
0 to 160 bar relative pressure	0.5	0.7	1	1.5		320	800
0 to 200 bar relative pressure	0.5	0.7	1	1.5		400	1000
0 to 250 bar relative pressure	0.5	0.7	1	1.5		500	1250
0 to 350 bar relative pressure	0.5	0.7	1	1.5		700	1750
0 to 400 bar relative pressure	0.5	0.7	1	1.5		800	2000
0 to 600 bar relative pressure	0.5	0.7	1	1.5		1200	3000
0 to 1000 bar relative pressure	1	1.2	1.5	2		1500	3000

^a Linearity according to limit point setting

Outputs

Analog output					
Current	4 to 20 mA, two-wire				
Voltage	DC 0.5 to 4.5 V, three-wire, ratiometric output 10 to 90 % of the voltage supply				
	DC 0 to 10 V, three-wire				
	DC 1 to 5 V, three-wire				
	DC 1 to 6 V, three-wire				
Step response T ₉₀	≤ 3 ms				
Burden					
Current	$R_L \le (U_B-10 \text{ V}) \div 0.02 \text{ A} (\Omega)$ at 4 to 20 mA, two-wire				
Voltage	$R_L \ge 20 \text{ k}\Omega$ at DC 0.5 to 4.5 V, three-wire				
(burden connected to "0 V/S-")	$R_L \ge 10 \text{ k}\Omega$ at DC 0 to 10 V, three-wire				
	$R_L \ge 10 \text{ k}\Omega$ at DC 1 to 5 V, three-wire				
	$R_L \ge 10 \text{ k}\Omega$ at DC 1 to 6 V, three-wire				

b Reference conditions EN 61298-1

^c All pressure transmitters are vacuum proof.

d Includes: linearity, hysteresis, repeatability, deviation of measuring range initial value and measuring range end value

Includes: linearity, hysteresis, repeatability, deviation of measuring range initial value and measuring range end value, thermal effect on measuring range start and measuring span

f MSP = measuring span

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Environmental influences

NA	
Medium temperatures for electrical connection	
Attached cable	-40 to +125 °C
M12 plug connector	-40 to +125 °C
Metri-Pack	-40 to +125 °C
Line socket	-40 to +125 °C
AMP Superseal	-40 to +125 °C
Deutsch DT04	-40 to +125 °C
Ambient temperatures	-40 to +125 C
for electrical connection	
Attached cable	-30 to +100 °C At ambient temperature of -30 °C restricted function; only use when stationary, risk of cable break
M12 plug connector	-40 to +100 °C
Metri-Pack	-40 to +100 °C
Line socket	-40 to +100 °C
AMP Superseal	-40 to +100 °C
Deutsch DT04	-40 to +100 °C
Storage temperatures for electrical connection	
Attached cable	-30 to +100 °C
M12 plug connector	-40 to +100 °C
Metri-Pack	-40 to +100 °C
Line socket	-40 to +100 °C
AMP Superseal	-40 to +100 °C
Deutsch DT04	-40 to +100 °C
Admissible humidity	
Operation	100 % rel. humidity including condensation on the device outer case
Storage	90 % rel. humidity without condensation
Admissible mechanical load	IEC 60068-2-6, IEC 60068-2-27
Vibration resistance	20 g at 10 to 2000 Hz
Shock resistance	50 g for 11 ms, 500 g for 1 ms
Electromagnetic compatibility (EMC)	DIN EN 61326-2-3:2022, UN ECE R10
Interference emission	Class A ^a
Interference immunity	Industrial requirement
Insulation voltage	AC 500 V
Protection type for electrical connection	DIN EN 60529
Attached cable	IP67/69K
M12 plug connector	IP67
Metri-Pack	IP67
Line socket	IP65
AMP Superseal	IP67
Deutsch DT04	IP67

a The product is only suitable for industrial use.

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Data Sheet 401020

Mechanical features

Material	
Process connection	Stainless steel 304 ^a
Membrane	Stainless steel 630
Housing	Stainless steel 304
Attached cable	PBT-GF30, PVC, PE
M12 plug connector	PBT-GF30
Metri-Pack	PBT-GF30
Line socket	PBT-GF30, PA, silicone
Deutsch DT04	PBT-GF30
AMP Superseal	PBT-GF30
Weight	55 g with process connection G 1/4" and M12 plug connector

Process transmitters with procecc connections G 1/4" and 7/16-20 UNF-2A are supplied with an FKM seal. Ensure the medium durability of the seal material!

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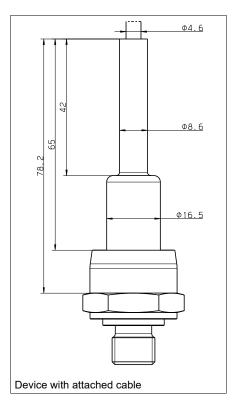
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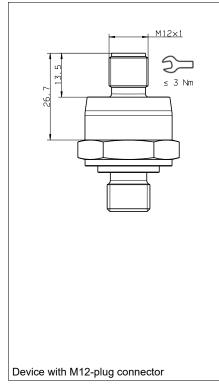


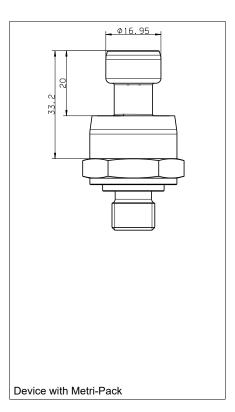
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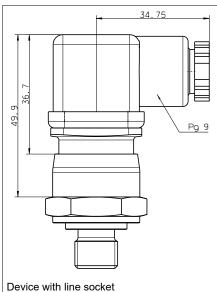
Dimensions

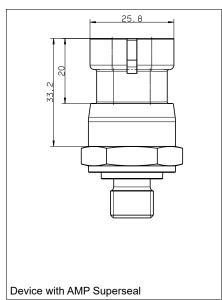
Device

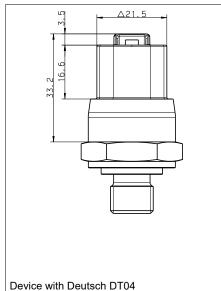












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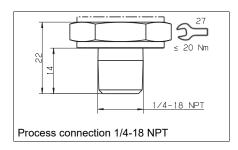
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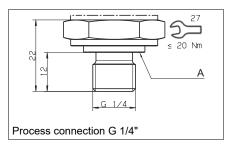
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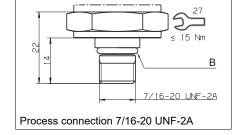
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Process connections







Α Profile seal G 1/4" В O-ring

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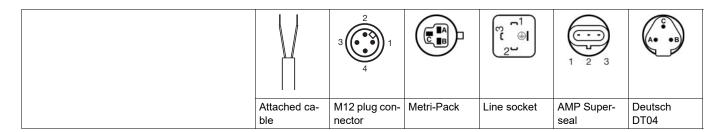


Data Sheet 401020

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

Designation	Description	Assignment ^b					
4 to 20 mA, two-wire, voltage supply DC 10 to 30 V	U _B /S+ 0 V/S-	WH (White) BN (Brown)	1 3	B A	1 2	3	A B
DC 0.5 to 4.5 V, ratiometric, voltage supply DC 4.5 to 5.5 V, ratiometric output 10 to 90 % of the voltage supply	U _B 0 V/S- S+	WH (White) BN (Brown) GN (Green)	1 2 3	B A C	1 2 3	3 1 2	A B C
DC 0 to 10 V, three-wire, voltage supply DC 12 to 30 V	U _B 0 V/S- S+	WH (White) BN (Brown) GN (Green)	1 2 3	B A C	1 2 3	3 1 2	A B C
DC 1 to 5 V, three-wire DC 1 to 6 V, three-wire, voltage supply DC 9 to 30 V Functional bonding conductor FB ^a	U _B 0 V/S- S+	WH (White) BN (Brown) GN (Green)	1 2 3 4	B A C	1 2 3	3 1 2 2 ^c	A B C

The pressure transmitter has to be connected to the potential equalization system of the plant via the electrical connection or process connection.

Only available for two-wire.

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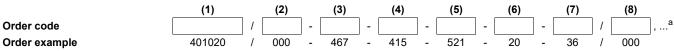
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Order details

(2) Ba 000 No (3) Inp 464 0 t 465 0 t 511 0 t 466 0 t 517 0 t 467 0 t 468 0 t 469 0 t 999 Sp (4) Ou 405 4 t 412 0.5 415 0 t 412 1 t (5) Pr 511 1/4 521 G 544 7/1 521 G 544 7/1 521 G 544 7/1 520 Cr (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	Basic type
000 No	JUMO MIDAS H20 HP – OEM pressure transmitter – high pressure
(3) Inp 464	Basic type extension
464 0 t 465 0 t 511 0 t 466 0 t 517 0 t 467 0 t 468 0 t 469 0 t 999 Sp (4) Ou 405 4 t 412 0.5 415 0 t 418 1 t 420 1 t 511 1/4 521 G 544 7/1 (6) Pro 20 Cri 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	None
465 0 to 5111 0 to 466 0 to 517 0 to 467 0 to 468 0 to 5469 0 to 999 Sp (4) Ou 405 4 to 412 0.5 415 0 to 418 1 to 420 1 to 511 1/4 521 G 5511 G 544 7/1 G (6) Pro 514 Att 36 M1 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex 000 No	Input (measuring range)
511 0 t t 466 0 t t 517 0 t t 467 0 t t 468 0 t t 469 0 t t 999 Sp (4) Ou 405 4 t t 412 0.5 415 0 t t 418 1 t t 420 1 t t 521 G 511 1/4 (6) Pro 511 1/4 (6) Pro 520 Cri 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex 000 No	0 to 100 bar relative pressure
466 0 to 517 0 to 467 0 to 468 0 to 468 0 to 469 0 to 999 Sp (4) Ou 405 4 to 412 0.5 415 0 to 418 1 to 420 1 to 521 Go 521 Go 544 7/1 (6) Pro 20 Cri 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex 000 No	0 to 160 bar relative pressure
517	0 to 200 bar relative pressure
467 0 to 468 0 to 469 0 to 999 Sp (4) Ou 405 4 to 412 0.5 415 0 to 418 1 to 420 1 to 521 G 544 7/1 (6) Pro 20 Cri 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	0 to 250 bar relative pressure
468 0 t 469 0 t 469 0 t 999 Sp (4) Ou 405 4 t 5 412 0.5 415 0 t 5 418 1 t 6 420 1 t 7 521 G 544 7/1 (6) Pro (7) Electric (8) Ex 000 No	0 to 350 bar relative pressure
469 0 t 999 Sp (4) Ou 405 4 t 1 412 0.5 415 0 t 1 420 1 t 1 (5) Pro 511 1/4 521 G 544 7/1 (6) Pro 20 Cri 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	0 to 400 bar relative pressure
999 Sp (4) Ou 405 4 t 412 0.5 415 0 t 418 1 t 420 1 t (5) Pr 511 1/4 521 G 544 7/1 (6) Pr 20 Cri 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex 000 No	0 to 600 bar relative pressure
(4) Ou 405	0 to 1000 bar relative pressure
405 4 to 412 0.5 415 0 to 418 1 to 420 1 to (5) Pro 511 1/4 521 G 544 7/1 (6) Pro 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	Special measuring range for relative pressure
412 0.5 415 0 t 418 1 t 420 1 t (5) Pr 511 1/4 521 G 544 7/1 (6) Pr 20 Cr (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	Output
415 0 t 418 1 t 420 1 t (5) Pro 511 1/4 521 G 544 7/1 (6) Pro 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	4 to 20 mA, two-wire
418 1 t t 420 1 t t 420 1 t t 5	0.5 to 4.5 V, three-wire, ratiometric
420 1 to (5) Pro 511 1/4 521 G 544 7/1 (6) Pro 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	0 to 10 V, three-wire
(5) Pro 511 1/4 521 G 544 7/1 (6) Pro 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	1 to 5 V, three-wire
511 1/4 521 G 544 7/1 (6) Pro 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	1 to 6 V, three-wire
521 G 544 7/1 (6) Pr 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	Process connection
544 7/1 (6) Pro 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex 000 No	1/4-18 NPT according to DIN EN 837
(6) Pro 20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	G 1/4" according to DIN 3852-11 ^a
20 Cri (7) Ele 11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	7/16-20 UNF-2A ^b
11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	Process connection material
11 Att 36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	CrNi (stainless steel)
36 M1 52 Me 61 Lin 77 AM 89 De (8) Ex	Electrical connection
52 Me 61 Lin 77 AM 89 De (8) Ex 000 No	Attached cable
61 Lin 77 AN 89 De (8) Ex 000 No	M12 plug connector
77 AM 89 De (8) Ex 000 No	Metri-Pack series 150, 3-pin
89 De (8) Ex 000 No	Line socket DIN EN 175301-803, Form A
(8) Ex	AMP Superseal, 3-pin
000 No	Deutsch DT04, 3-pin
	Extra code
	None
061 UL	UL approval ^c
591 Ch	Choke in the pressure channel
624 Oil	Oil and grease free

^a The process connection G 1/4" is only available with measuring range end up to 400 bar.

The UL approval stipulates use of the pressure transmitter indoors. Special measuring ranges (input) are not allowed to exceed the 1000 bar



^a List extra codes in sequence, separated by commas.

b The process connection 7/16-20 UNF is only available with measuring range end up to 600 bar.

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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
Line socket, 4-pole, M12 × 1, with control cable, 5 m	00512341