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JUMO Instrument Co. Ltd.
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JUMO Process Control, Inc.
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JUMO MIDAS S06

OEM-Pressure Transmitter – Low Pressure

Applications

- HVAC (heating, ventilating, and air conditioning)
- Filter technology
- Mechanical and plant engineering
- Level measurement
- Bubble-through method
- Packaging industry

Brief description

The JUMO MIDAS S06 pressure transmitter is already available with measuring ranges as of 100 mbar. The used silicon sensor can handle extreme overloading even in the lowest measuring ranges and is capable of handling millions of pressure cycles.

The fully welded and therefore seal-free measuring system made of high-grade stainless steel allows this device to be used in almost all media, even when the conditions are rough.

The structure ensures optimum protection against process medium leakage.



Type 401011 with cable socket



Type 401011 with M12 x 1 connector

Customer benefits

- **Economic**
A high degree of automation (digital compensation and calibration of sensor module) reduces production time and manufacturing costs.
- **Process reliability**
The piezoresistive silicon sensor has a high level of overload protection and long-term stability. The full final inspection in the fully automated measuring and calibration facility ensures that each pressure transmitter is of high quality.
- **Time-saving, uncomplicated, and versatile**
The installation of the measuring device requires little work and the electrical installation is simple. The modular structure allows universal use in almost any application.

Special features

- Measuring ranges as of 100 mbar
- Suitable for measuring aggressive liquids
- High degree of process reliability due to a welded measuring system with no seals
- Robust and maintenance-free measurement technology thanks to extreme overload resistance
- 60 % quicker device installation with the QUICKON quick-clamp technology
- Parts in contact with media are made of stainless steel

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Technical data

General Information

| | | | | | | |
|---|---|--|--|--|--|--|
| Reference conditions | DIN 16086 and DIN EN 60770 | | | | | |
| Sensor | | | | | | |
| Material | Silicon sensor with stainless steel separating membrane (piezo-resistive) | | | | | |
| Pressure transfer medium | Synthetic oil | | | | | |
| Admissible load changes | > 10 million | | | | | |
| Mounting position | Any | | | | | |
| Calibration position | Device stands upright, process connection at the bottom | | | | | |
| Zero point offset depending on position | ≤ 1.5 mbar, process connection at the top | | | | | |

Measuring range and accuracy

| Measuring range mbar | Linearity ^a % MSP ^e | Accuracy at 20 °C ^c % MSP | -20 to +100 °C ^d (80 °C) % MSP | Long-term stability ^b % MSP per year | Overload capacity bar | Burst pressure bar |
|-------------------------------------|--|--|--|--|-----------------------------|--------------------------|
| 0 to 100 mbar relative pressure | 0.35 | 1.2 | 2 ^f | < 1.0 | -0.4 to +0.4 | -0.6 to +0.6 |
| 0 to 160 mbar relative pressure | 0.3 | 0.8 | 1.9 ^f | | -0.7 to +0.7 | -1 to +1 |
| 0 to 0,25 bar relative pressure | 0.3 | 0.8 | 1.8 ^f | | -1 to +1 | -1 to +1.5 |
| 0 to 0,4 bar relative pressure | 0.3 | 0.7 | 1.7 | < 0.4 | -1 to +1.6 | -1 to +2 |
| 0 to 0,6 bar relative pressure | 0.3 | 0.7 | 1.6 | | -1 to +2.4 | -1 to +3.6 |
| -100 to +100 mbar relative pressure | 0.3 | 1 | 2 ^f | | -0.4 to +0.4 | -0.6 to +0.6 |
| -400 to +400 mbar relative pressure | 0.3 | 0.7 | 1.7 | | -1 to +1.6 | -1 to +2 |

^a Linearity according to limit point setting

^b Reference conditions EN 61298-1

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

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

^e MSP = measuring span

^f Maximum admissible ambient and medium temperature 0 to 80 °C

Output

| | |
|--|---|
| Analog output ^a Current Output 405 Voltage Output 412 Output 415 Output 418 Output 420 | 4 to 20 mA, two-wire DC 0.5 to 4.5 V, three-wire, ratiometric 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 | ≤ 5 ms |
| Burden Current 4 to 20 mA, two-wire (output 405) Voltage DC 0.5 to 4.5 V, three-wire (output 412) DC 0 to 10 V, three-wire (output 415) DC 1 to 5 V, three-wire (output 418) DC 1 to 6 V, three-wire (output 420) | R _L ≤ (U _B - 8 V) ÷ 0.02 A (Ω) R _L ≥ 5 kΩ R _L ≥ 10 kΩ R _L ≥ 10 kΩ R _L ≥ 10 kΩ |

^a Further outputs are available upon request.

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Mechanical features

| | |
|--|--|
| Material | |
| Process connection | Stainless steel 304 ^a |
| Membranes | Stainless steel 316 L |
| Housing | Stainless steel 304 |
| Attached cable (electrical connection 11) | PBT-GF30, PVC, PE |
| QUICKON (electrical connection 23) | PBT-GF30 |
| Round plug M12 × 1 (electrical connection 36) | PBT-GF30, stainless steel 303 |
| Bayonet connector (electrical connection 53) | PBT-GF30 |
| Cable socket (electrical connection 61) | PBT-GF30, PA, silicone |
| Weight | 80 g with G 1/4 (process connection 502) |

^a Pressure transmitters with G 1/4 (process connection 521) are supplied with an FPM seal. Note the medium durability of the seal material!

Environmental influences

| | | |
|---|--|---------------------------|
| Admissible temperatures | Measuring range 100, 160, 250, -100 to +100 mbar | Measuring range ≥ 0,4 bar |
| Medium temperature | 0 to 80 °C | -20 to +100 °C |
| Ambient temperature | 0 to 80 °C | -20 to +100 °C |
| Storage temperature | -20 to +100 °C | -20 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 | | |
| Vibration resistance | 20 g at 10 to 2000 Hz, according to IEC 60068-2-6 | |
| Shock resistance | 50 g for 11 ms, 100 g for 1 ms, according to IEC 60068-2-27 | |
| Electromagnetic compatibility | According to EN 61326-2-3 | |
| Interference emission | Class B ^a | |
| Interference immunity | Industrial requirement | |
| Protection type for electrical connection | According to EN 60529 | |
| Attached cable (electrical connection 11) | IP66 for relative pressure measuring range, IP67 for absolute pressure measuring range | |
| QUICKON (electrical connection 23) ^b | IP66 | |
| Round plug M12 × 1 (electrical connection 36) ^c | IP66 | |
| Bayonet connector (electrical connection 53) ^c | IP67 | |
| Cable socket (electrical connection 61) ^{c, d} | IP65 | |

^a The product is suitable for industrial use as well as for households and small businesses.

^b Connecting cable diameter, minimum 3.5 mm, maximum 6 mm

^c The protection type is only achieved with a suitable mounted counter piece.

^d Connecting cable diameter, minimum 6 mm, maximum 8 mm

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Auxiliary power

| | |
|---------------------------------|---|
| Voltage supply U_B^a | DC 8 to 30 V, rated voltage supply DC 24 V DC 3 to 5.25 V, rated voltage supply DC 5 V, ratiometric output 10 to 90 % of the voltage supply DC 11.5 to 30 V, rated voltage supply DC 24 V DC 8 to 30 V, rated voltage supply DC 24 V DC 8 to 30 V, rated voltage supply DC 24 V |
| Current consumption | ≤ 25 mA ≤ 2 mA ≤ 3 mA ≤ 3 mA ≤ 3 mA |
| Reverse voltage protection | Yes |
| Electrical circuit Requirements | SELV The device must be equipped with an electrical circuit that meets the requirements of EN 61010-1 with regard to "Limited-energy circuits". |

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

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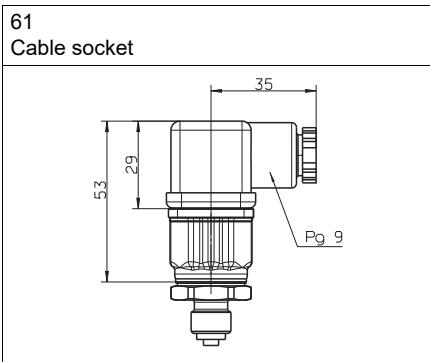
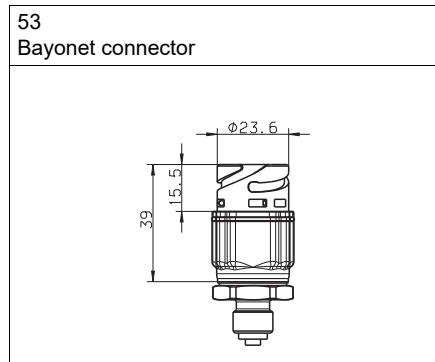
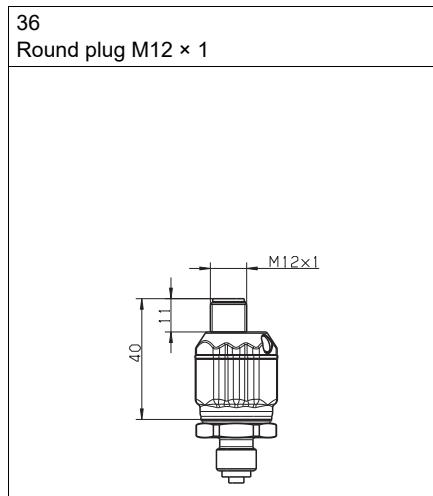
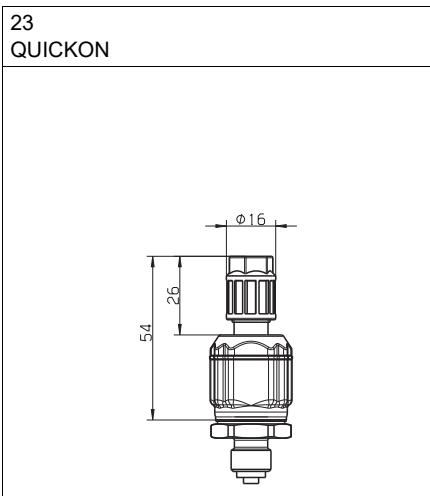
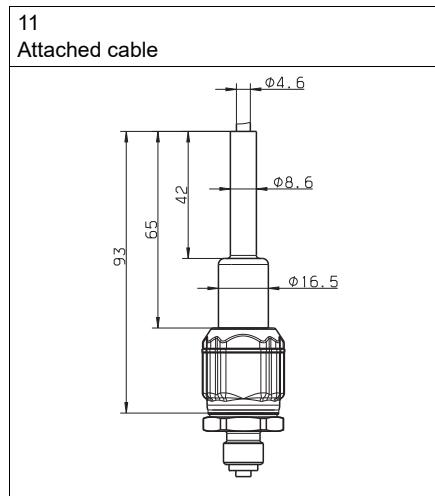
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Dimensions

Electrical connection



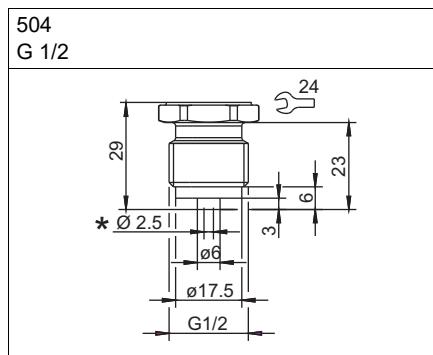
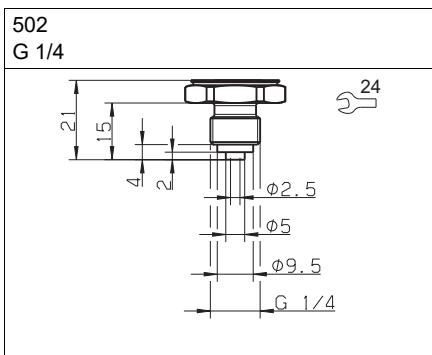
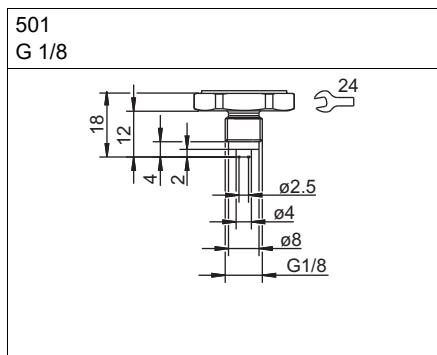
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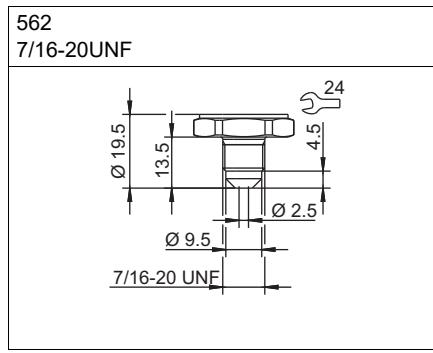
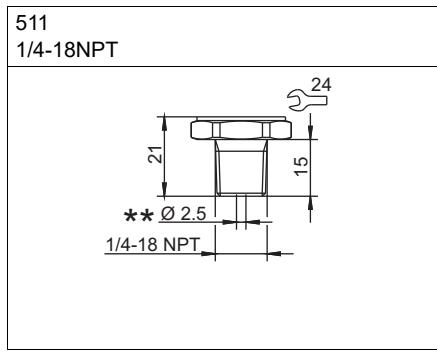
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Process connection



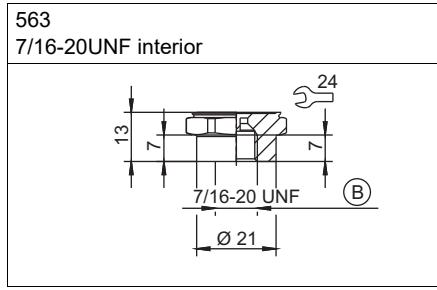
* Extra code 630 pressure channel
 \varnothing 12 mm



** Extra code 630 pressure channel
 \varnothing 8 mm

** Extra Code 630 pressure channel
 \varnothing 8 mm

A Profile seal G 1/4



B With valve core handle

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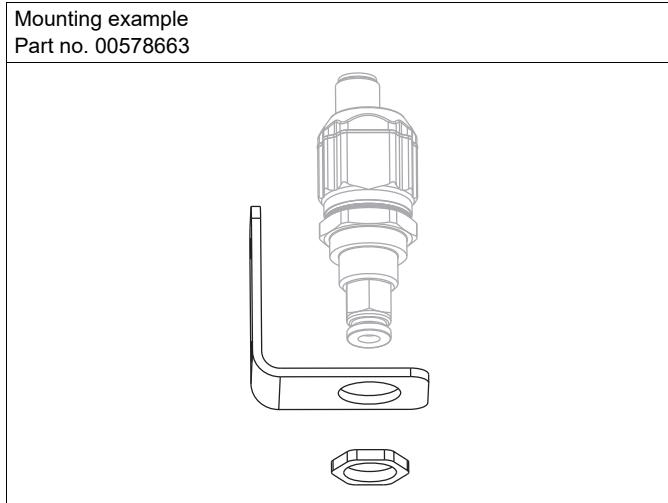
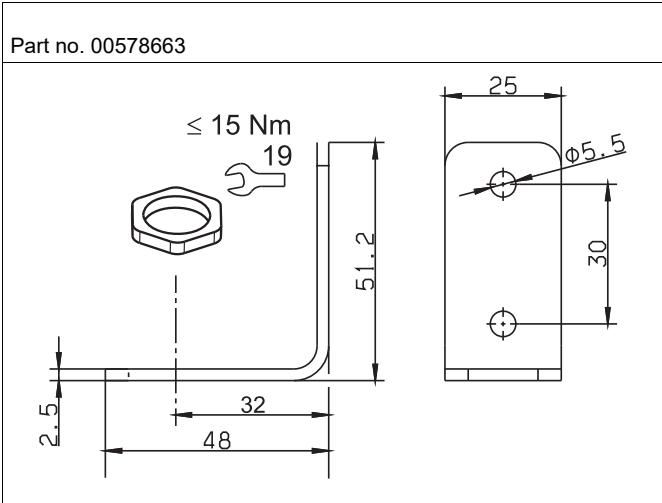
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Mounting kit

Accessories



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Connection diagram

The connection diagram in the data sheet provides preliminary information about the connection options. For the electrical connection, only use the installation instructions or the operating manual. The knowledge and the correct technical compliance with the safety information and warnings contained in these documents are mandatory for mounting, electrical connection, and startup as well as for safety during operation.

| Connection | | Terminal assignment (figure: connection to the pressure transmitter) | | | | |
|--|--------------------------------|---|-------------------------|---------------|-----------------------------|----------------------------|
| | | | | | | |
| 11 Attached cable | | 11 | 23 Attached cable | 36 QUICKON | 53 Round plug M12 x 1 | 61 Bayonet connector |
| 4 to 20 mA, two-wire (output 405) | | | | | | |
| Voltage supply DC 8 to 30 V | U _B /S+ | WH | 1 | 1 | 1 | 1 |
| | 0 V/S- | BN | 3 | 3 | 2 | 2 |
| DC 0.5 to 4.5 V ratiometric (output 412) | | | | | | |
| Voltage supply DC 3 to 5.25 V Ratiometric output 10 to 90 % of the voltage supply | U _B 0 V/S- S+ | WH BN GN | 1 2 3 | 1 2 3 | 1 2 3 | 1 2 3 |
| DC 0 to 10 V, three-wire (output 415) | | | | | | |
| Voltage supply DC 11.5 to 30 V | U _B 0 V/S- S+ | WH BN GN | 1 2 3 | 1 2 3 | 1 2 3 | 1 2 3 |
| DC 1 to 5 V, three-wire (output 418) DC 1 to 6 V, three-wire (output 420) | | | | | | |
| Voltage supply DC 8 to 30 V | U _B 0 V/S- S+ | WH BN GN | 1 2 3 | 1 2 3 | 1 2 3 | 1 2 3 |
| Functional bonding conductor FB ^a | | - | - | 4 | - | |

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

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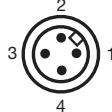
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Assignment variants electrical connection, extra code 933

Please provide the assignment variant in plain text with the order details (for example "B1")!

| Connection | Terminal assignment (figure: connection to the pressure transmitter) | | | | | |
|---|---|----|----|----|---|---|
| |  | | | |  | |
| | 36 | | 61 | | | |
| Assignment variants | | B1 | B2 | B3 | B4 | |
| 4 to 20 mA, two-wire (output 405) | | | | | | |
| Voltage supply DC 8 to 30 V | U _B /S+ | 1 | 4 | | | 2 |
| | 0 V/S- | 2 | 1 | | | 1 |
| DC 0 to 10 V, three-wire (output 415) | | | | | | |
| Voltage supply DC 11.5 to 30 V | U _B | 1 | 1 | 1 | | 3 |
| | 0 V/S- | 3 | 4 | 2 | | 2 |
| | S+ | 4 | 2 | 4 | | 1 |
| DC 1 to 5 V, three-wire (output 418) DC 1 to 6 V, three-wire (output 420) | | | | | | |
| Voltage supply DC 8 to 30 V | U _B | 1 | 1 | 1 | | 3 |
| | 0 V/S- | 3 | 4 | 2 | | 2 |
| | S+ | 4 | 2 | 4 | | 1 |
| Functional bonding conductor FB ^a |  | - | - | - | |  |

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

| | | |
|--|------|-------|
| Color coding: connecting cable round plug M12 x 1 | 1 BN | Brown |
| | 2 WH | White |
| | 3 BU | Blue |
| | 4 BK | Black |

The color coding is **only** valid for A-coded standard cables!

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Order details

| (1) Basic type | |
|--|--|
| 401011/000 | JUMO MIDAS S06 - OEM pressure transmitter – Low pressure |
| 401011/999 | JUMO MIDAS S06 - OEM pressure transmitter, special version |
| (2) Input | |
| 414 | 0 to 100 mbar relative pressure |
| 415 | 0 to 160 mbar relative pressure |
| 451 | 0 to 0,25 bar relative pressure |
| 452 | 0 to 0,4 bar relative pressure |
| 453 | 0 to 0,6 bar relative pressure |
| 446 | -100 to +100 mbar relative pressure |
| 447 | -400 to +400 mbar relative pressure |
| 999 | Special measuring range for relative pressure |
| (3) Output | |
| 405 | 4 to 20 mA, two-wire |
| 412 | DC 0.5 to 4.5 V, three-wire |
| 415 | DC 0 to 10 V, three-wire |
| 418 | DC 1 to 5 V, three-wire |
| 420 | DC 1 to 6 V, three-wire |
| (4) Process connection | |
| 501 | G 1/8 according to DIN EN 837 |
| 502 | G 1/4 according to DIN EN 837 |
| 504 | G 1/2 according to DIN EN 837 |
| 511 | 1/4-18 NPT according to DIN EN 837 |
| 521 | G 1/4 according to DIN 3852-11 |
| 562 | 7/16-20 UNF |
| 563 | 7/16-20 UNF inside, with valve core handle |
| (5) Process connection material | |
| 20 | CrNi (stainless steel) |
| (6) Electrical connection | |
| 11 | Attached cable ^a |
| 23 | QUICKON |
| 36 | Round plug M12 × 1 |
| 53 | Device connector bayonet DN 72585 |
| 61 | Cable socket DIN EN 175301-803, Form A |
| (8) Extra codes | |
| 000 | None |
| 591 | Restrictor in pressure channel |
| 624 | Oil and grease free |
| 630 | Enlarged pressure channel ^b |
| 933 | Assignment variant electrical connection ^c |
| 950 | Railway application ^d |

^a The standard cable length is 2 m. Further lengths are available upon request.

^b An enlarged pressure channel is only available with process connections 1/4-18 NPT (process connection 511) and G 1/4 (process connection 521).

^c Specify assignment variants in plain text.

^d The devices are tested to railway standard EN 50155:2017. Extra code 950 can only be selected for devices with output 4 to 20 mA (output 405) and round plug M12 × 1 (electrical connection 36) or cable socket DIN EN 175301-803 Form A (electrical connection 61). Note on EMC: If interference is caused by high-frequency fields (DIN EN 61000-4-3), deviations of up to 3 % of the MSP may occur at certain frequencies.

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Order code (1) _____ - (2) _____ - (3) _____ - (4) _____ - (5) _____ - (6) _____ / (7) _____, ...^a
Order example 401011/000 - 454 - 405 - 504 - 20 - 61 / 591

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

Accessories

| Designation | Description | Part no. |
|--|--|----------------------|
| Ex-i repeater power supply/input isolating amplifier | <p>The Ex-i repeater power supply/input isolating amplifier is designed for operating intrinsically safe transmitters (Ex-i) and mA current sources installed in potentially explosive (Ex) areas.</p> <p>Two-wire transmitters are supplied with energy and analog 0/4 to 20 mA measured values are transmitted from the Ex-area to the non-Ex-area. The output of the module can be operated actively or passively. Further technical data and the relevant safety requirements are available in the operating manual B 707530.0.</p>  | 00577948 |
| Cable box, straight | <p>The gray PVC connecting cable is 2 m in length and has a 4-pole, straight M12 x 1 connector with gold-plated contacts on the device side.</p> <p>The blue PUR connecting cable is 2 m in length and has a 4-pole, straight M12 x 1 connector with gold-plated contacts on the device side.</p> <p>A pressure equalization hose that is used for versions with a relative pressure range is included in the cable.</p>  | 00404585 00693035 |
| Cable box, angled | <p>The gray PVC connecting cable is 2 m in length and has a 4-pole, angled M12 x 1 connector with gold-plated contacts on the device side.</p> <p>The blue PUR connecting cable is 2 m in length and has a 4-pole, angled M12 x 1 connector with gold-plated contacts on the device side.</p> <p>A pressure equalization hose that is used for versions with a relative pressure range is included in the cable.</p>  | 00409334 00693038 |