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JUMO CTI-750

Inductive Conductivity/Concentration and Temperature Transmitter with switch contacts

Brief description

The device is used for the measurement/control of conductivity or concentration in liquid media. It is particularly recommended for use in media where severe deposits of dirt, oil, grease or gypsum/lime precipitates are to be expected. The integrated temperature measurement enables fast and accurate temperature compensation, which is of particular importance when measuring conductivity. Additional functions, such as the combined changeover of measurement range and temperature coefficient, and a particularly robust conductivity probe, enable optimum application in CIP processes.

Two built-in switching outputs can be freely programmed to monitor limits for conductivity/concentration and/or temperature. It is also possible to assign alarm and control functions (dilution).

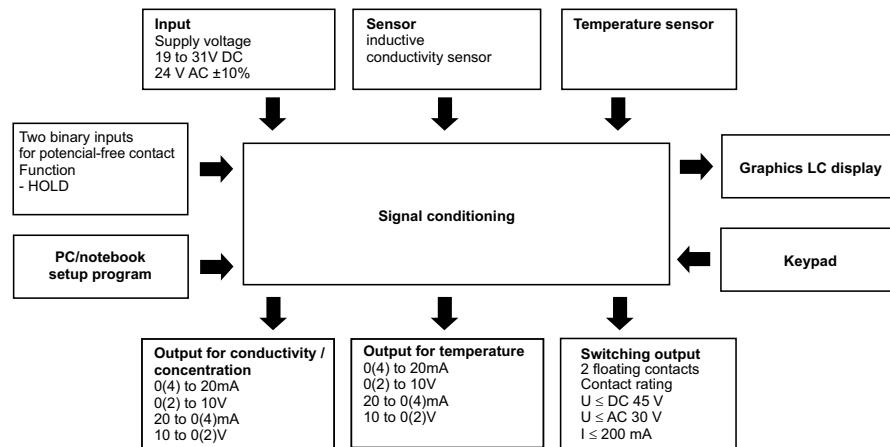
The device is operated either from the membrane keypad and plain-text graphics display or through the user-friendly PC setup program. The display can be read in a vertical or horizontal mounting position. The device can also be supplied without a keyboard/display. In this case, the setup program is required for programming.

Plastic or stainless steel can be chosen as the housing material, depending on the requirement. The separate sensor design is particularly suitable for systems with powerful vibrations and/or powerful heat emissions at the measuring location.

Typical areas of application: Food/beverage and pharmaceutical industries, product separation in the beverage industry, breweries and dairies, bottle cleaning plant, concentration control in electroplating and chemical processing plant, CIP systems, water and wastewater engineering, dosing of chemicals, leakage indication, in heating and cooling plant, and so on.



Block structure



Key features

- Hygienic sensor
- Activation of up to four measuring ranges and temperature coefficients
- Concentration measurement of
 - caustic soda NaOH
 - nitric acid HNO₃
 - a freely definable curve
- Fast-response temperature sensor
- Temperature compensation
 - linear, natural water or specific characteristic (learning function)
- Operation via keypad and LC display or through setup program
- Operator languages: English, French, German, Italian, Dutch, Polish, Portuguese, Russian, Spanish, Swedish
- By using the setup program:
 - user-friendly programming
 - plant documentation

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Functional description

The inductive measurement method permits largely maintenance-free acquisition of the specific conductivity, even in the toughest media conditions. As opposed to the conductive measurement method, problems such as electrode decomposition and polarization do not occur.

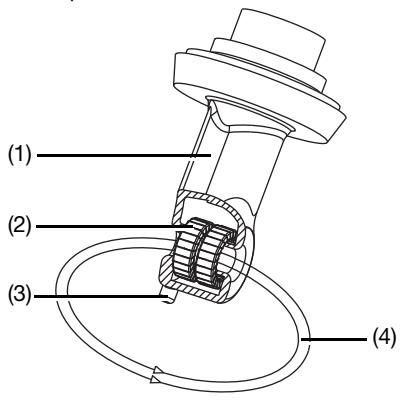
Conductivity is measured by using an inductive probe. A sinusoidal a.c. voltage feeds the transmitting coil. Depending on the conductivity of the liquid to be measured, a current is induced in the receiver coil. This current is proportional to the conductivity of the medium.

Device description

Sensor

The sensor consists of a hermetically sealed body inside which the two measurement coils are arranged. A bore in the sensor enables the medium to flow through. The measurement principle entails an inevitable electrical isolation between the sample medium and the signal output.

The sensor is largely unaffected by temperature and pressure variations.



- (1) Sensor body (PEEK)
- (2) Measuring coils
- (3) Temperature sensor
- (4) Liquid loop

Exposed temperature sensor

The exposed sensor reacts very quickly to changes in temperature. This is particularly important in CIP processes (phase separation).

Parts in contact with the medium

Depending on the sensor version, the following materials come into contact with the sample medium: PEEK, PVDF, EPDM, stainless steels 1.4301 (AISI 304), 1.4305 (AISI 303) and 1.4404 (AISI 316L); see Dimensions.

Temperature compensation

Since conductivity depends to a large extent on the temperature of the medium, it is usually necessary to compensate for the temperature effect.

The device allows both linear and non-linear temperature compensation.

If required, temperature compensation can be switched off, for example, when the temperature conditions on the measurement site are stable or when temperature compensation is carried out in the software, in external evaluation devices (PLC or similar).

Process connections

To cover a wide variety of applications, the device can be supplied with different process connections, see dimensions.

Installation at the measurement point

The operating position is generally unrestricted. However, it is essential to ensure that there is a continuous exchange of the sample medium in the flow channel and that both air bubbles and dry-running are avoided.

Transmitter

The type 202756 transmitter has been designed for use on site. A rugged housing protects the electronics and the electrical connections from corrosive environmental conditions (IP67). A vent screw with a PTFE

membrane prevents condensation.

Operation

The type 202756 can be operated either from the device keys and the graphics LC display and/or through the setup program from a PC or laptop.

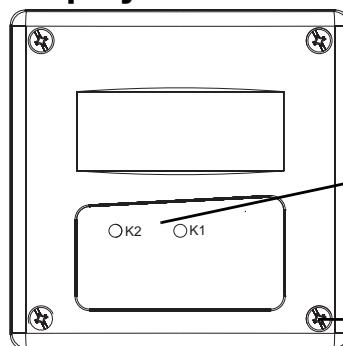
The device can be secured against unauthorized alteration by a password.

Functions of the outputs

Analog outputs

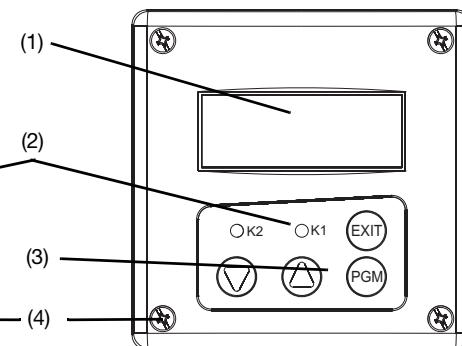
- One analog signal output for conductivity/concentration and temperature respectively.
- The analog output signals are freely scalable (range start and end values).
- The response of the analog outputs to over/underrange or alarm can be programmed.
- Simulation of the signal output:
The analog signal outputs can be freely set in the manual ("Hand") mode.
Application: "Dry-run" start-up of the plant, trouble-shooting, servicing.

Displays and controls



Version without a display

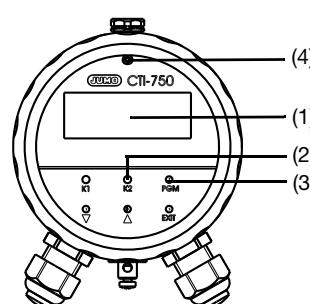
Operation/configuration through the setup program only



Version with a display

Operation/configuration from the keys or through the setup program

Version in stainless steel housing



- (1) Graphics LC display
- (2) LEDs for the switching status indication of the outputs K1 and K2
- (3) Keys
- (4) Captive screw

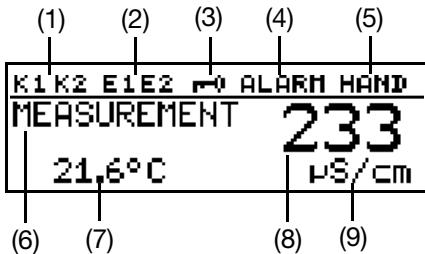
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Graphics display



- (1) Switching output 1 or 2 is active
- (2) Binary input 1 or 2 is operated
- (3) Keypad is inhibited
- (4) Alarm has been activated
- (5) Device is in manual mode
- (6) Device status
- (7) Temperature of medium
- (8) Conductivity measurement
- (9) Unit of conductivity measurement

Switching outputs

The device features two floating switching outputs (solid-state relays) as standard.

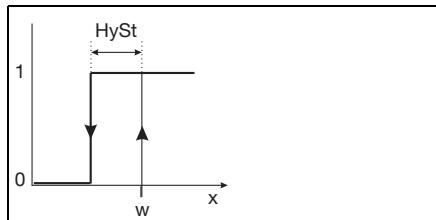
These can be used freely for monitoring the conductivity/concentration or the temperature.

The following functions can be assigned:

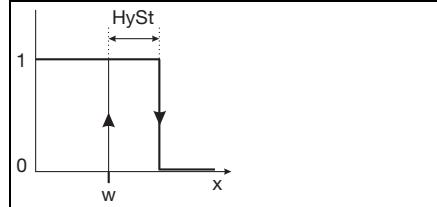
- Limit monitoring (MAX. or MIN. limit comparator) with programmable hysteresis
- Pulse function (the output switches briefly on reaching the switching point, then opens again).
- Pull-in and drop-out delay
- Inverted switching outputs
- Response to overrange/underrange or with activated measuring circuit monitoring (pull-in/drop-out)
- "Calibration timer run down" signal.

Contact functions

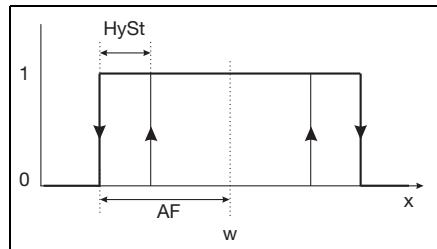
Limit function AF7



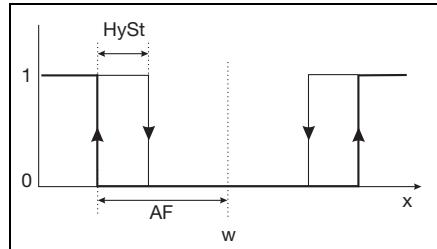
Limit function AF8



Alarm window AF1

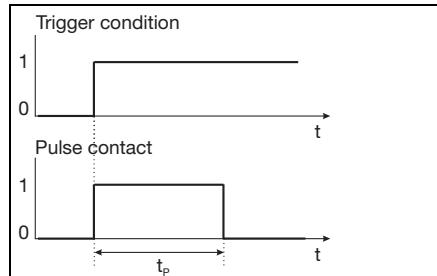


Alarm window AF2



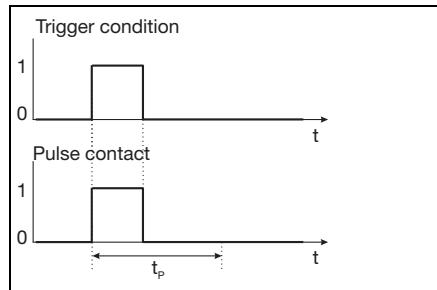
Pulse contact

Trigger conditions longer than pulse duration



Pulse contact

Trigger conditions shorter than pulse duration



Binary inputs

The two binary inputs serve to implement the following functions:

- Key inhibit
- HOLD mode
- 4-fold range changeover
- 4-fold temperature coefficient changeover
- Initiation of dilution function and biocide dosing

Special functions

• The **learning function** for the temperature coefficient enables exact measurement of media with a non-linear characteristic. During a temperature change, the device "learns" the temperature coefficient of the present medium and stores the profile. The stored values then enable the correct indication of the temperature-compensated conductivity.

• **Individual characteristic** for concentration indication. An individual characteristic with 20 interpolation points can be entered through the setup program. This function can be used to generate special characteristics for specific media (e.g. special detergents). This results in correct measurements that contribute to assuring the quality and saving costs.

Dilution control

Various processes that find their application in wet cooling towers are stored as sequence control (biocide dosing and subsequent inhibiting of dilution). Detailed information can be found in the operating manual.

• The **calibration timer** draws your attention to a calibration schedule. This function is activated by entering a number of days, after which recalibration has to be carried out (plant or operator requirement).

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Function of the binary inputs

| Setting parameters | | Binary input 1 | Binary input 2 |
|--|------------|---------------------|---------------------|
| Range/temperature coefficient changeover | Range1/TC1 | open | open |
| | Range2/TC2 | closed | open |
| | Range3/TC3 | open | closed |
| | Range4/TC4 | closed | closed |
| Key inhibit | | closed | X |
| Hold function | | X | closed |
| Start dilution function | | close (0 to 1 edge) | open |
| Stop dilution function | | open | close (0 to 1 edge) |

Technical data

Conductivity transmitter

| | |
|--|--|
| A/D converter | |
| Resolution | 15 bits |
| Sampling time | 500 ms = 2 measurements/s |
| Power supply | For SELV and PELV circuit operation only. 19 to 31 V DC (24 V DC nominal) |
| Standard | |
| Residual ripple | <5 % |
| Reverse polarity protection | yes |
| Extra code 844 | AC 24 V ±10 %, 50 bis 60 Hz |
| Power draw | |
| with display | ≤ 3 W |
| without display | ≤ 2,6 W |
| Contact rating of the PhotoMOS® relay | |
| Voltage | ≤ DC 45 V ≤ AC 30 V |
| Current | ≤ 200 mA |
| Electrical connection | |
| 82 | Cable glands/pluggable screw terminals, 2,5 mm ² |
| 83 | M12 plug/socket (instead of cable glands) |
| 84 | Two M16 cable glands and a pluggable screw terminal blanking plug, 2,5 mm ² |
| Display | |
| Basic type 202756/10 | without display |
| Basic type 202756/15 | Backlit graphic LCD; adjustable contrast; dimensions: 62 mm × 23 mm |
| Basic type 202756/16 | Backlit graphic LCD; adjustable contrast; dimensions: 62 mm × 23 mm |
| Permissible ambient temperature | 5 to +50 °C; max. rel. humidity 93 %, no condensation |
| Permissible storage temperature | -20 to +75 °C; max. rel. humidity 93 %, no condensation |
| Protection rating^a | IP67 |
| Electromagnetic compatibility^b | |
| Interference emission | Class B |
| Interference immunity | to industrial requirements |
| Housing | |
| Basic type extensions /10, /15, /20, /25, /60, /65 | PA |
| Basic type extensions /16, /26, /66 | Stainless steel 1.4305 (AISI 303) |
| Weight^c | approx. 0,3 to 2,4 kg |

^a DIN EN 60529

^b DIN EN 61326

^c Dependent on version and process connection

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Measuring ranges

There is a choice of four different measuring ranges. Any one of these ranges can be activated by an external switch or by a PLC.

Note: The overall accuracy is composed of transmitter accuracy + sensor accuracy.

| Transmitter measuring ranges ^a | Accuracy (as % of measuring range span) |
|---|--|
| 0 to 500 µS/cm | |
| 0 to 1000 µS/cm | |
| 0 to 2000 µS/cm | |
| 0 to 5000 µS/cm | |
| 0 to 10 mS/cm | |
| 0 to 20 mS/cm | |
| 0 to 50 mS/cm | ≤ 0,5 % |
| 0 to 100 mS/cm | |
| 0 to 200 mS/cm | |
| 0 to 500 mS/cm | |
| 0 to 1000 mS/cm | |
| 0 to 2000 mS/cm ^b | |
| Concentration measurement | implemented in the device software |
| NaOH (caustic soda) | 0 to 15 % by weight or 25 to 50 % by weight (0 to 90 °C) |
| HNO ₃ (nitric acid) | 0 to 25 % by weight or 36 to 82 % by weight (0 to 80 °C) |
| Customer-specific concentration curve | freely programmable via the setup program (see "Special functions") |
| Calibration timer | 0 to 999 days (0 = OFF) |
| Output signal conductivity and concentration^c | 0 to 10 V or 10 to 0 V 2 to 10 V or 10 to 2 V 0 to 20 mA or 20 to 0 mA 4 to 20 mA or 20 to 4 mA |
| Burden | |
| at current output | ≤ 500 Ω |
| at voltage output | ≥ 2k Ω |
| Ambient temperature effect | ≤ 0,1 %/K |
| Analog output at "Alarm" | |
| Low | 0 mA/0 V/3.4 mA/1.4 V or a fixed value |
| High | 22.0 mA/0.7 V or a fixed value |

^a Usual application range from approx. 100 µS/cm.

^b Not temperature compensated.

^c The output signal is freely scalable.

Temperature transmitters

| | |
|--|--|
| Temperature acquisition^a | Manually, -20.0 to 25.0 to 150 °C or °F, or automatically |
| Measuring range | -20 - 150 °C or °F |
| Characteristic | linear |
| Accuracy | ≤ 0.5 % of the measuring range |
| Ambient temperature effect | ≤ 0.1 %/K |
| Output signal | 0 - 10 V or 10 - 0 V 2 - 10 V or 10 - 2 V 0 - 20 mA or 20 - 0 mA 4 - 20 mA or 20 - 4 mA The output signal is freely scalable in the -20 to +200°C range. |
| Burden | |
| at current output | ≤ 500 Ω |
| at voltage output | ≥ 2k Ω |
| Analog output at "Alarm" | |
| Low | 0 mA/0 V/3.4 mA/1.4 V or a fixed value |
| High | 22.0 mA/10.7 V or a fixed value |

^a Take the permissible sample medium temperature into consideration!

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Temperature compensation

| | |
|--------------------------------|---|
| Reference temperature | 15 to 30 °C, adjustable |
| Temperature coefficient | 5.5 %/°C, adjustable |
| Compensation range | -20 to 150 °C |
| Function | linear or natural water (EN 27888) or non-linear (learning function, see Special functions) |

Inductive conductivity sensor

| | |
|---|--|
| Measuring range^a | Accuracy (as % of measuring range span) |
| 0 - 500 µS/cm | ≤ 1 % |
| 0 - 1000 µS/cm | ≤ 1 % |
| 0 - 2000 µS/cm | ≤ 0,5 % |
| 0 - 5000 µS/cm | ≤ 0,5 % |
| 0 - 10 mS/cm | ≤ 0,5 % |
| 0 - 20 mS/cm | ≤ 0,5 % |
| 0 - 50 mS/cm | ≤ 0,5 % |
| 0 - 100 mS/cm | ≤ 0,5 % |
| 0 - 200 mS/cm | ≤ 0,5 % |
| 0 - 500 mS/cm | ≤ 0,5 % |
| 0 - 1000 mS/cm | ≤ 1 % |
| 0 - 2000 mS/cm ^b | ≤ 1 % |
| Material | |
| for extra code 767 | PEEK |
| for extra code 768 | PVDF |
| Permissible sample medium temperatures^c | -10 - +120 °C, briefly +140 °C (sterilization) |
| Pressure | max. 10 bar |

^a Usual application range from approx. 100 µS/cm.

^b Not temperature compensated

^c **Note:** The temperature, pressure and sample medium affect the service life of the sensor!

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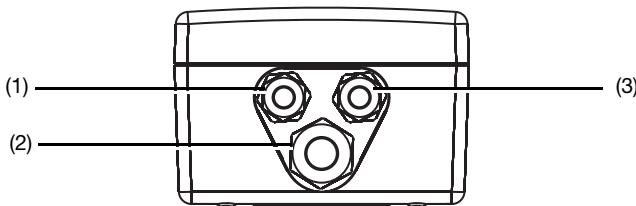
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Electrical connection

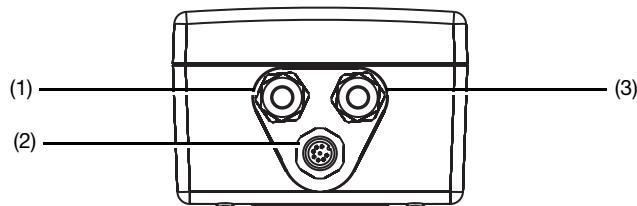
Transmitter with electrical connection 82 (cable glands)

Head transmitter

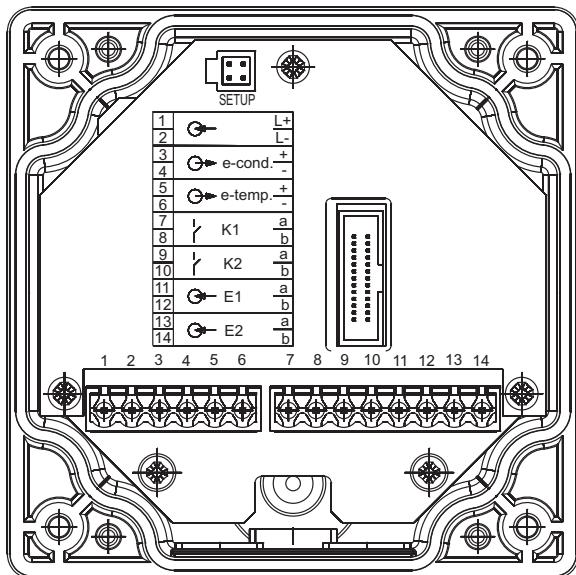


- (1) Power supply and actual value output (conductivity/concentration and temperature)
M12 cable gland (PA)
- (2) Switching outputs
M16 cable gland (PA)
- (3) Binary input
M12 cable gland (PA)

Transmitter with separate sensor



- (1) Power supply and actual value output (conductivity/concentration and temperature)
M12 cable gland (PA)
- (2) Separate sensor
M12 flush-type connector
- (3) Binary input and switching outputs
M12 cable gland (PA)



| | Terminal assignment | | Symbol |
|---|---------------------|-----|--------|
| Supply | | | |
| Supply (with reverse-polarity protection) | 1 | L + | L+ |
| | 2 | L - | 1 |
| | | | 2 |

| Outputs | | | |
|--|---|---|---|
| Analog signal output: conductivity/concentration (electrically isolated) | 3 | + | 3 |
| | 4 | - | 4 |
| | | | + |
| | | | - |
| Analog signal output: temperature (electrically isolated) | 5 | + | 5 |
| | 6 | - | 6 |
| | | | + |
| | | | - |

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| | Terminal assignment | | Symbol |
|--------------------------------------|---------------------|--|--------|
| PhotoMOS®-Relay K1 (floating, no) | 7 8 | | |
| PhotoMOS®-Relay K2 (floating, no) | 9 10 | | |

| Binary inputs | Terminal assignment | |
|-----------------|---------------------|--|
| Binary input E1 | 11 12 | |
| Binary input E2 | 13 14 | |

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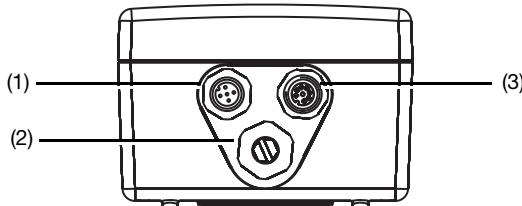
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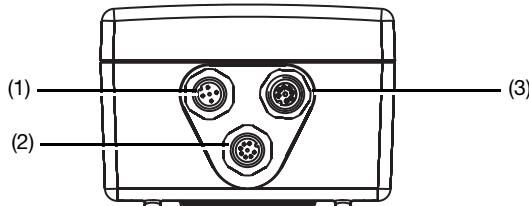
Transmitter with electrical connection 83 (M12 connectors)

Head transmitter



- (1) **Connector I**
Power supply and
actual value output for conductivity/concentration
M12 flush-type connector, 5-pin
- (2) Blanking plug
- (3) **Connector II**
Actual value output for temperature, and binary input and
switching outputs
M12 flush-type connector, 8-pin

Transmitter with separate sensor



- (1) **Connector I**
Power supply and
actual value output for conductivity/concentration
M12 flush-type connector, 5-pin
- (2) **Connector III**
Inductive conductivity sensor
M12 flush-type connector, 8-pin
- (3) **Connector II**
Actual value output for temperature, and binary input and
switching outputs
M12 flush-type connector, 8-pin

| Supply | Connector | Assignment | Symbol |
|--|-----------|------------|--------|
| Supply (with reverse-polarity protection) | I | L+ L- | |

| Outputs | | | |
|--|----|--|--|
| Analog signal output: conductivity/concentration (electrically isolated) | I | | |
| Analog signal output: temperature (electrically isolated) | II | | |
| PhotoMOS®-Relay K1 (floating, no) | II | | |
| PhotoMOS®-Relay K2 (floating, no) | II | | |

| Binary inputs | | | |
|-----------------|---------|--|--|
| Binary input E1 | I II | | |
| Binary input E2 | I II | | |

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 E-mail: mail@jumo.net
 Internet: www.jumo.net

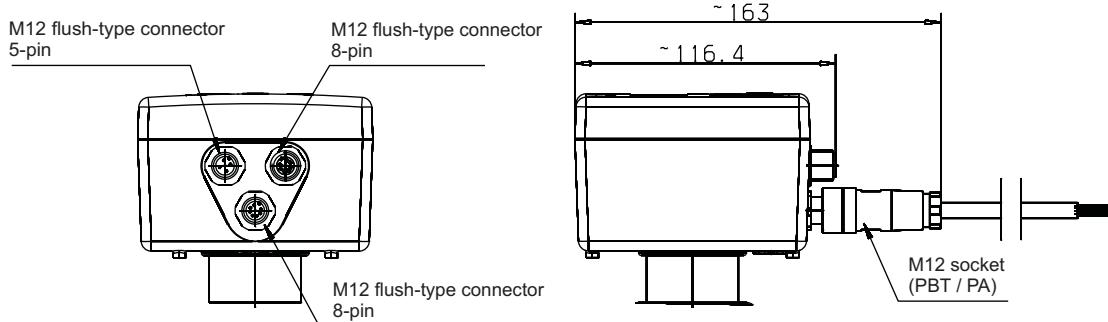
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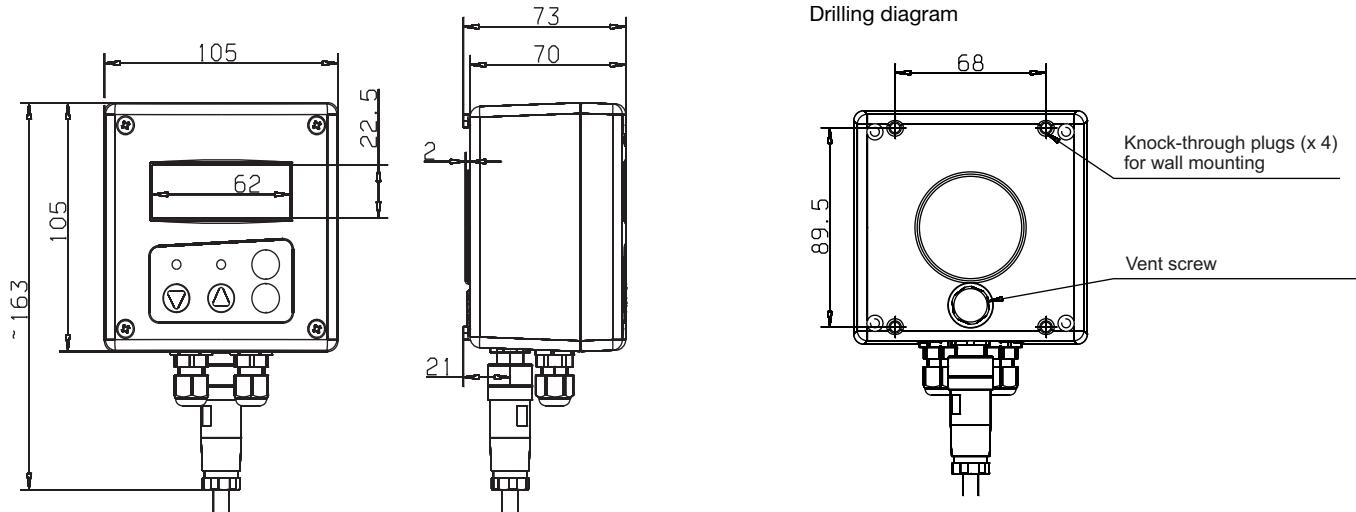


Dimensions

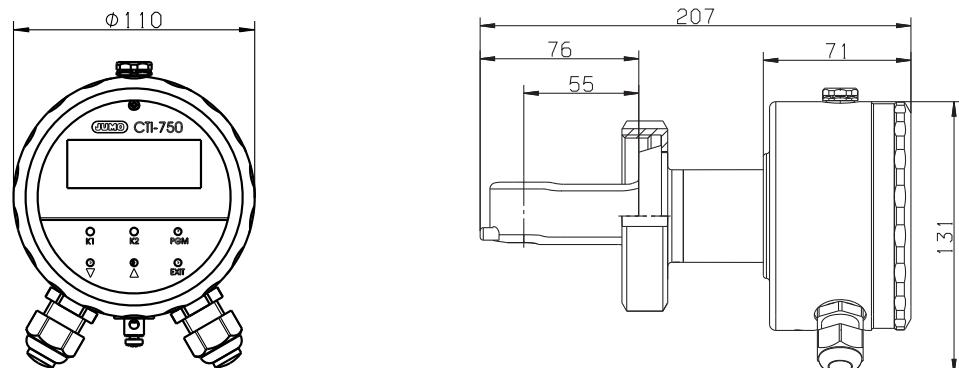
**Operating unit of transmitter (head transmitter in plastic housing)
 with basic type extension 10 or 15 and electrical connection 83**



**Operating unit of transmitter (transmitter with separate sensor, in plastic housing)
 with basic type extension 20 or 25 and electrical connection 82**



**Operating unit of transmitter (head transmitter in stainless steel housing)
 with basic type extension 16 and electrical connection 84**



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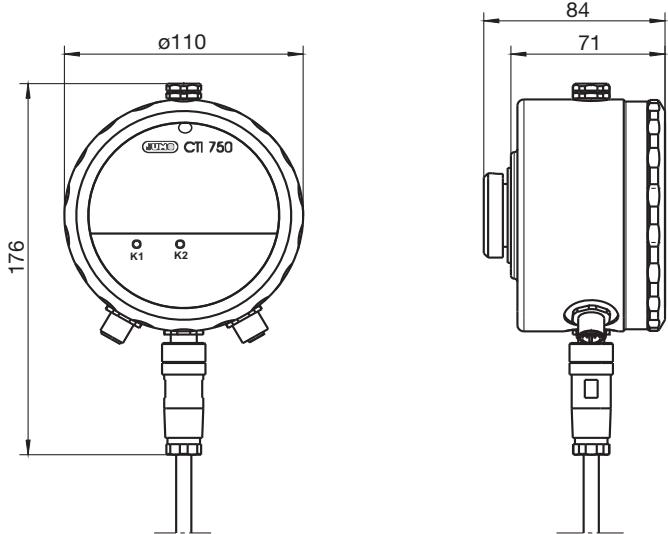
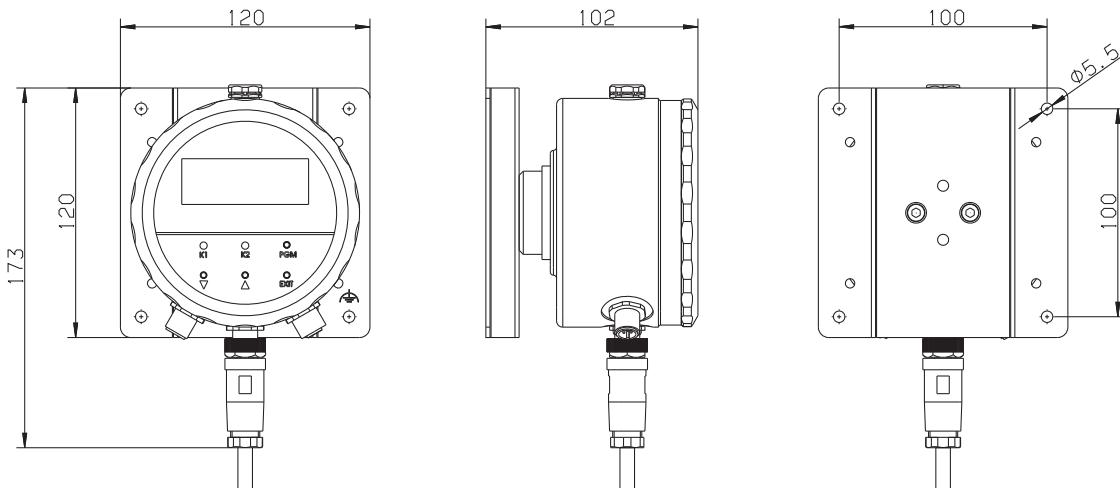
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**Operating unit of transmitter (transmitter with separate sensor, in stainless steel housing)
with basic type extension 26 or 66 and electrical connection 83****Wall mounting**

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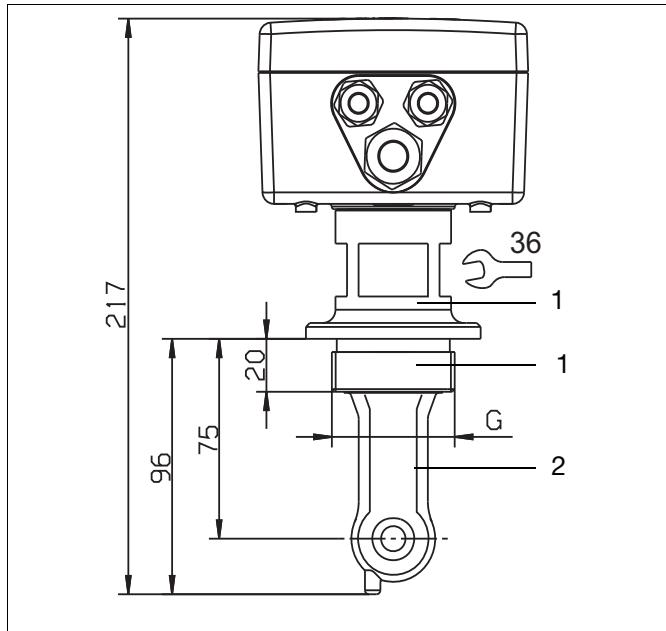
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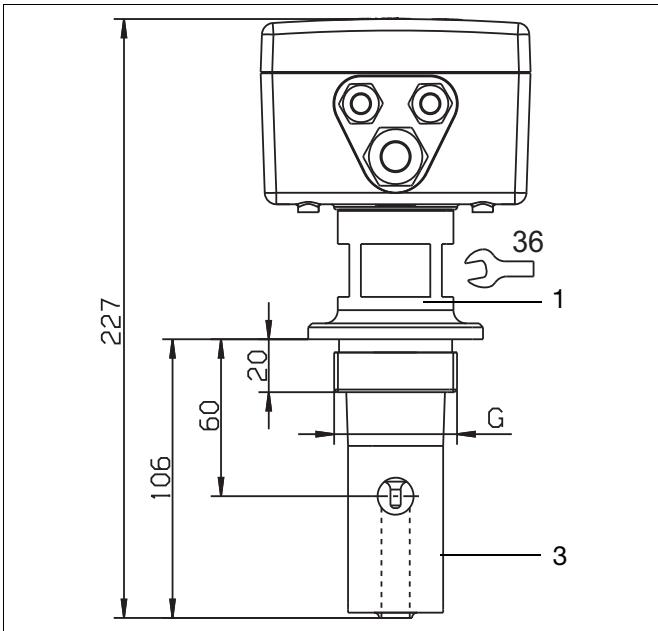


Dimensions/Process connections

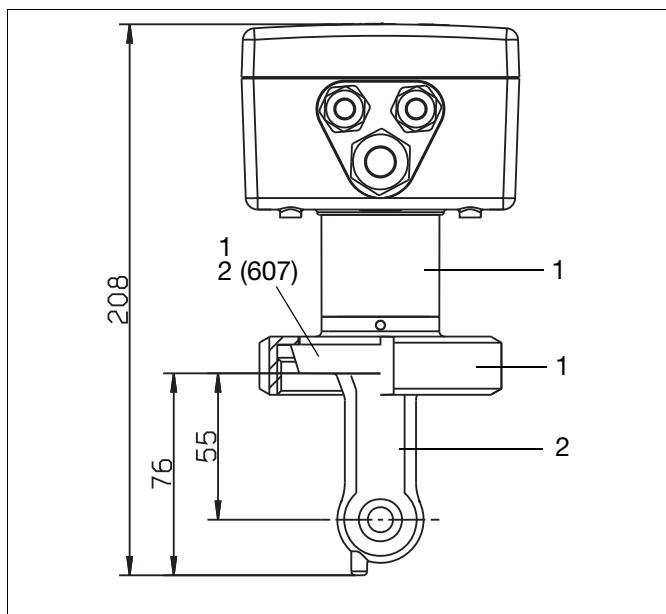
Head transmitter



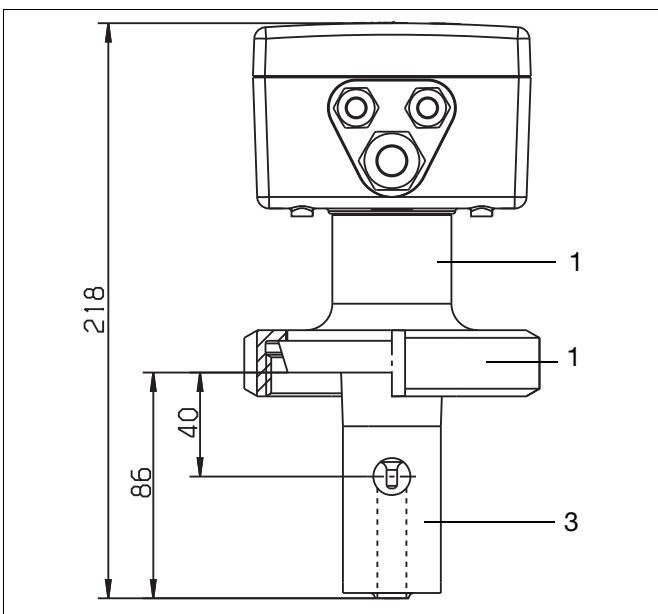
Version with process connection
 108 = screw-in thread G 1 1/2 A
 110 = screw-in thread G 2 A
 and extra code 767



Version with process connection
 107 = screw-in thread G 1 1/4 A
 108 = screw-in thread G 1 1/2 A
 110 = screw-in thread G 2 A
 and extra code 768



Version with process connection
 607 = MK DN 50
 608 = MK DN 65
 609 = MK DN 80
 and extra code 767



Version with process connection
 606 = MK DN 40
 607 = MK DN 50
 608 = MK DN 65
 609 = MK DN 80
 and extra code 768

1 = 1.4301

2 = PEEK

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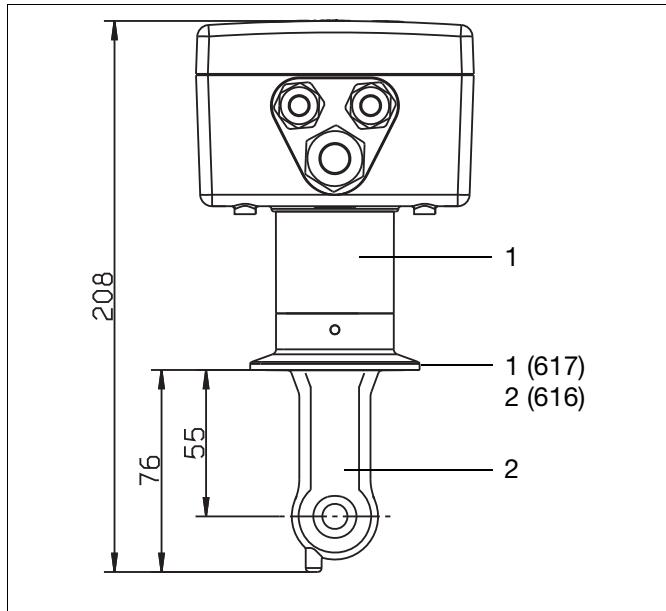
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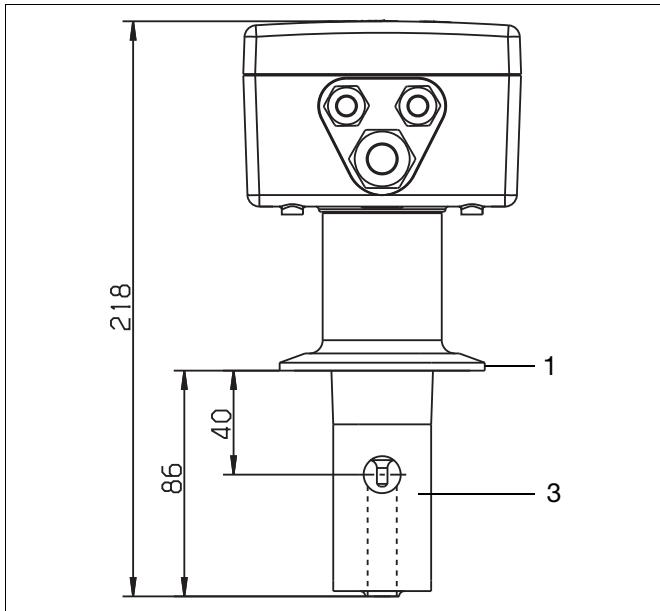
Version with process connection

616 = Clamp 2"

617 = Clamp 2 1/2"

and extra code 767 and 941

(retaining clip not included in delivery)

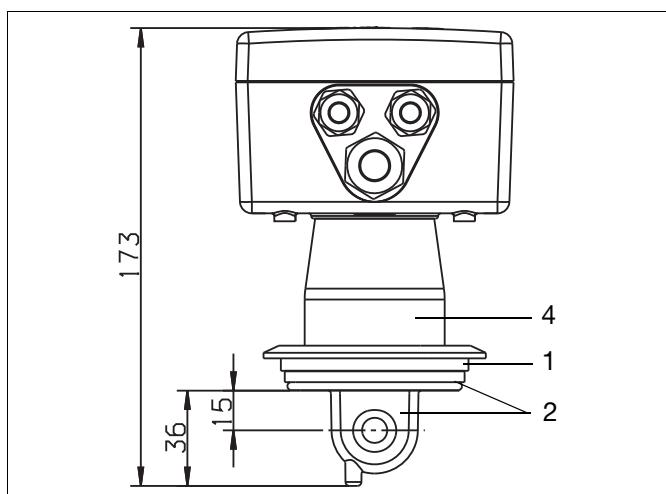


Version with process connection

617 = Clamp 2 1/2"

and extra code 768

(retaining clip not included in delivery)



Version with process connection

686 = VARIVENT® DN 50/40

and extra code 767 and 941

1 = 1.4301

2 = PEEK

3 = PVDF

4= PPS GF 40

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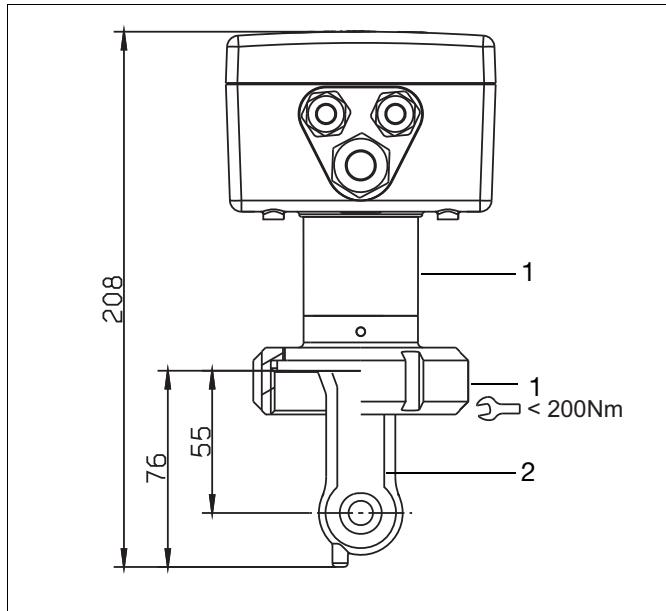
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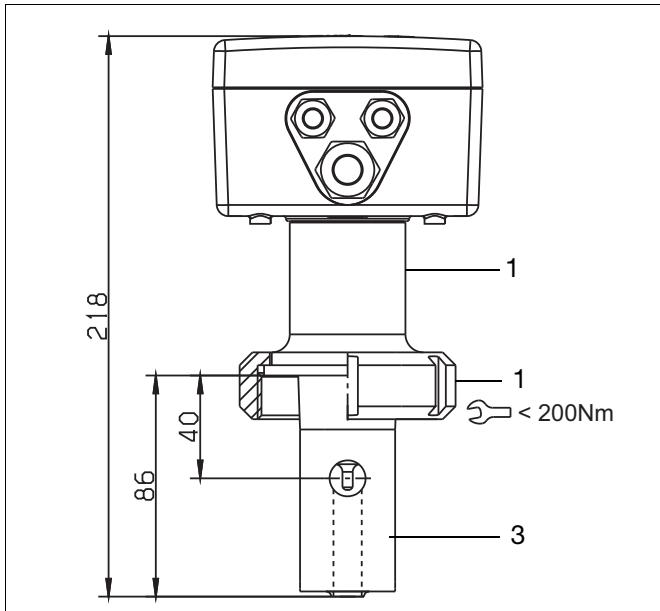
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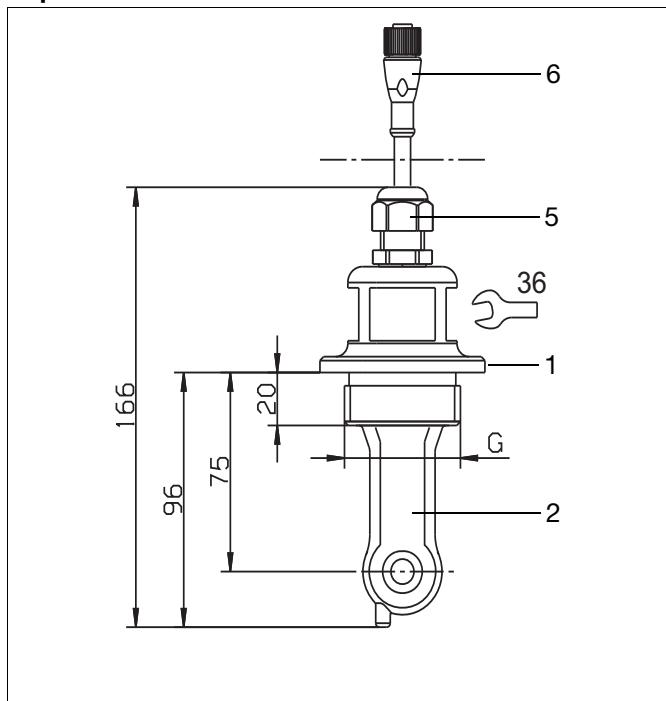
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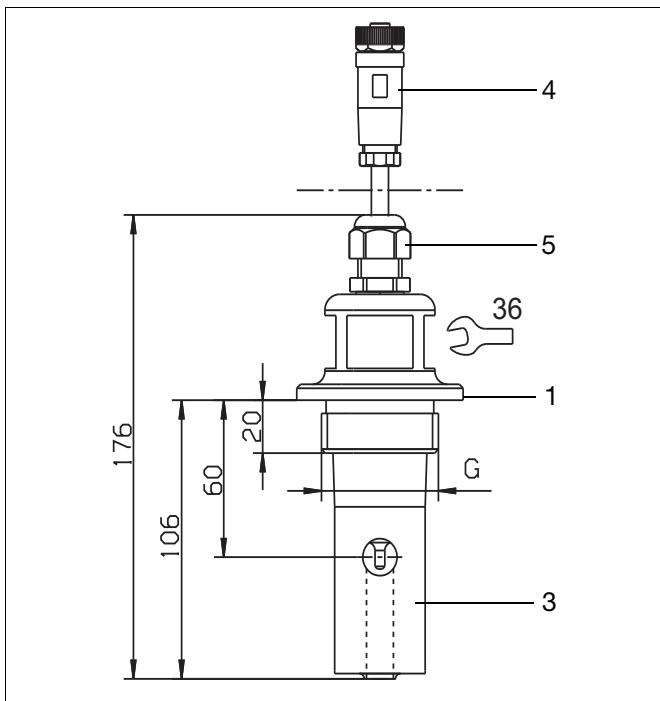
Version with process connection
690 = SMS 2" ($\odot < 200\text{Nm}$)
and extra code 767 and 941



Version with process connection
690 = SMS 2" ($\odot < 200\text{Nm}$)
and extra code 768

Separate sensor

Version with process connection
108 = screw-in thread G 1 1/2 A
110 = screw-in thread G 2 A
and extra code 767



Version with process connection
107 = screw-in thread G 1 1/4 A
108 = screw-in thread G 1 1/2 A
110 = screw-in thread G 2 A
and extra code 768

1 = 1.4301

2 = PEEK

3 = PVDF

4 = PBT

5 = PA

6 = TPU

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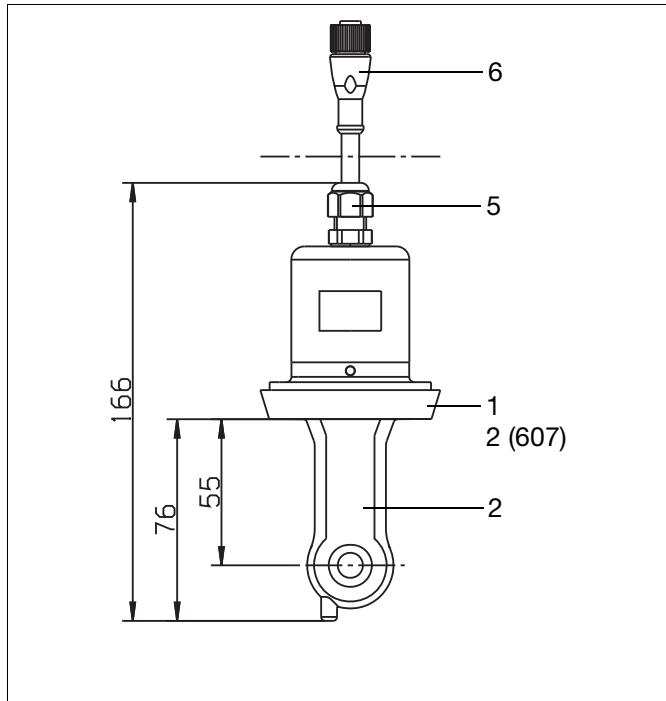
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Split version with process connection
607 = MK DN 50
608 = MK DN 65
609 = MK DN 80
and extra code 767
(retaining clip not included in delivery)

1 = 1.4301

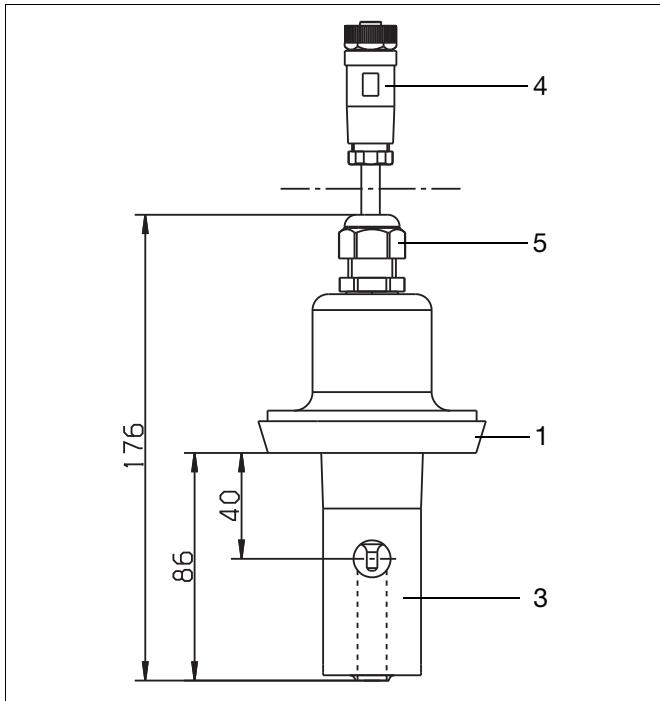
2 = PEEK

3 = PVDF

4 = PBT

5 = PA

6 = TPU



Split version with process connection
606 = MK DN40
607 = MK DN50
608 = MK DN65
609 = MK DN80
and extra code 768
(retaining clip not included in delivery)

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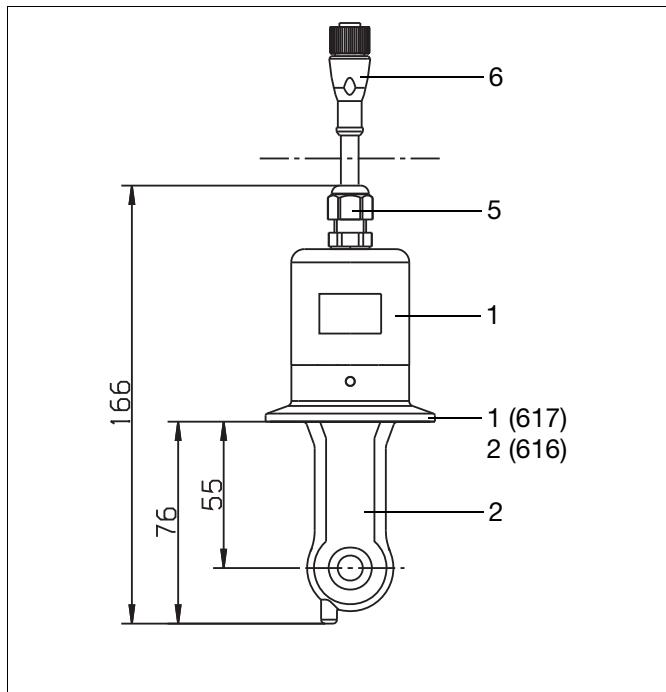
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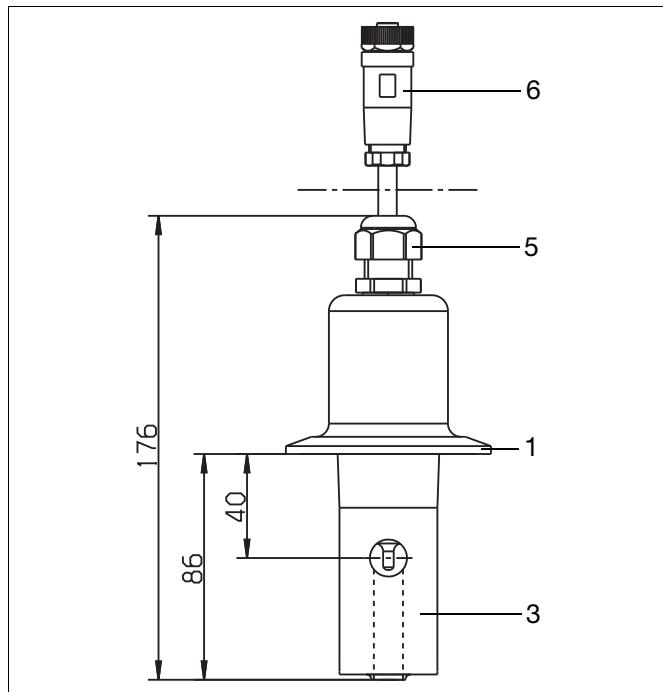
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Split version with process connection
616 = Clamp 2"
617 = Clamp 2 1/2"
and extra code 768
(retaining clip not included in delivery)



Split version with process connection
617 = Clamp 2 1/2"
and extra code 768
(retaining clip not included in delivery)

1 = 1.4301

2 = PEEK

3 = PVDF

4 = PBT

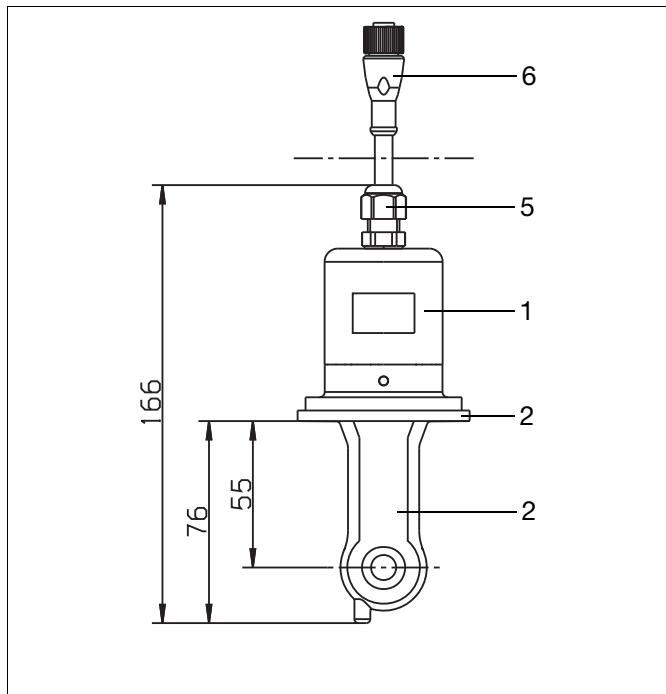
5 = PA

6 = TPU

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Split version with process connection
 690 = SMS 2"
 and extra code 767
(Union nut (\odot) < 200Nm) not included in delivery)

1 = 1.4301

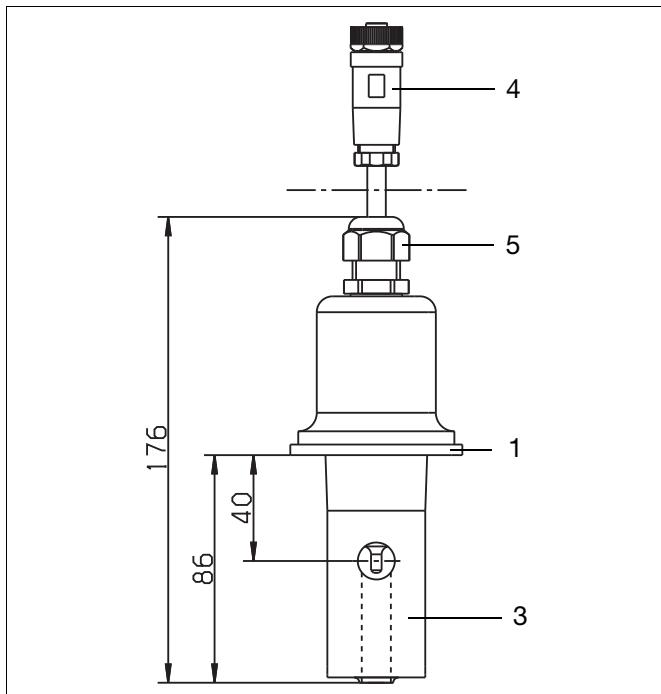
2 = PEEK

3 = PVDF

4 = PBT

5 = PA

6 = TPU



Split version with process connection
 690 = SMS 2"
 and extra code 768
(Union nut (\odot) < 200Nm) not included in delivery)

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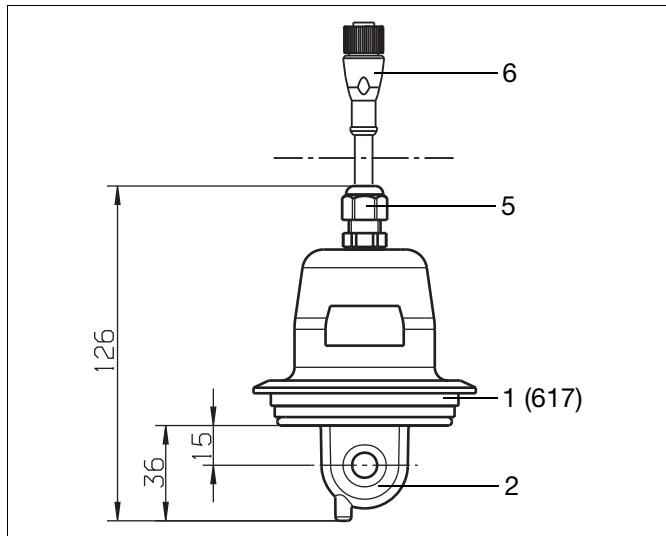
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JUMO**Varivent®**

Split version with process connection

686 = VARIVENT® DN 50/40

and extra code 767 and 941

(retaining clip not included in delivery)

1 = 1.4301

2 = PEEK

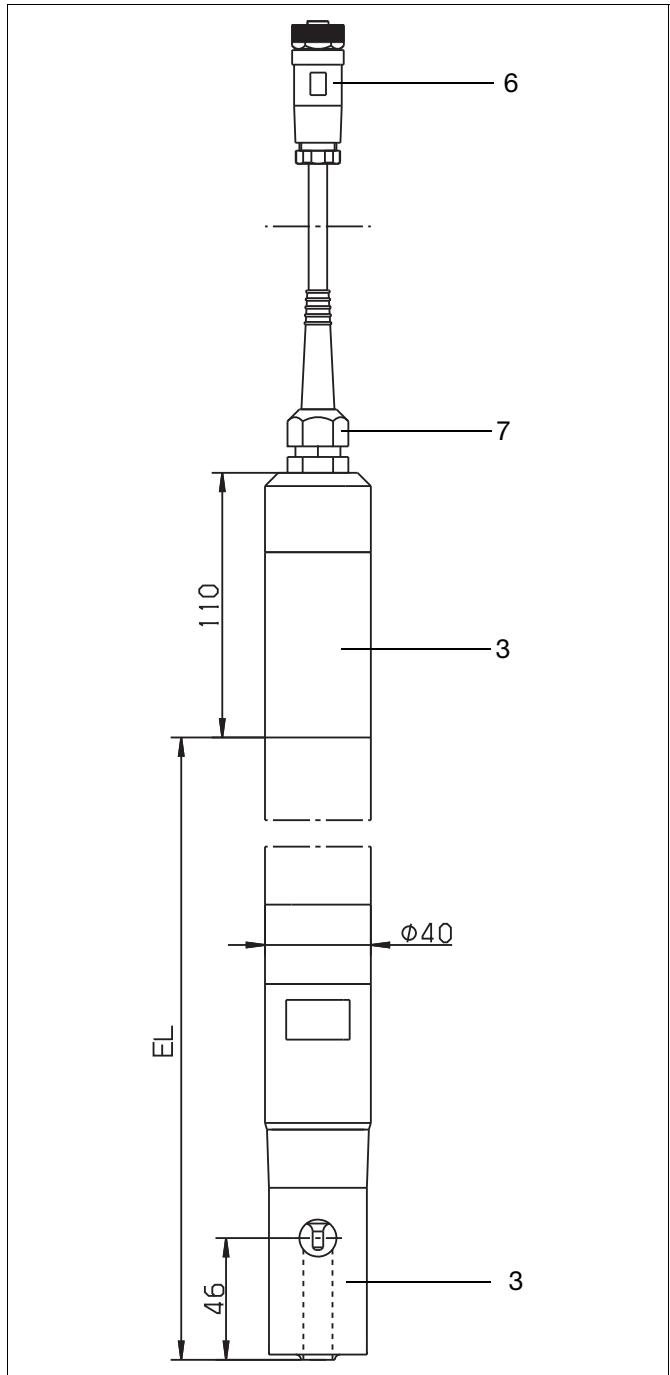
5 = PA

6 = TPU

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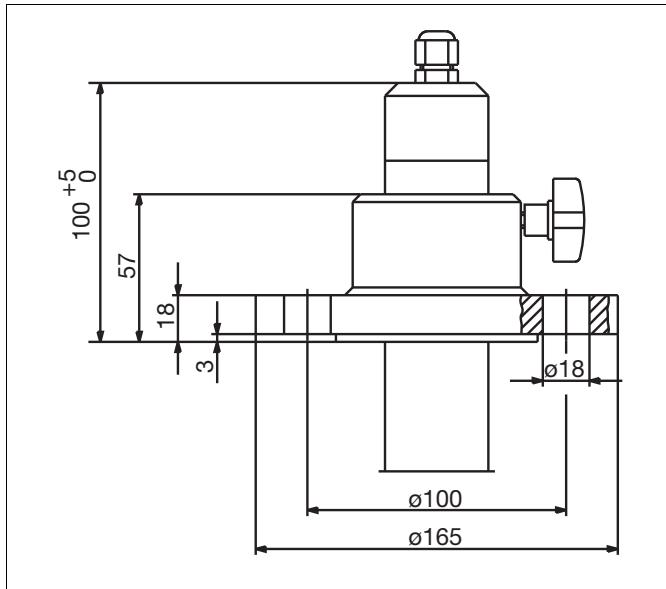


Split version with process connection 706
 immersion model
 (pipe clips included in delivery)

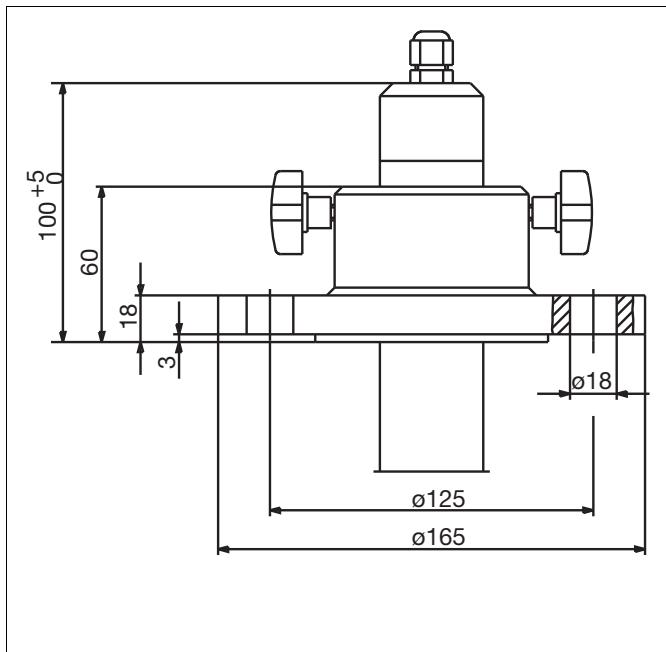
3 = PVDF

6 = PBT

7 = brass nickel plated EPDM



Optional accessory
 DN 32 Flange
 Part no. 00083375



Optional accessory
 DN 50 Flange
 Part no. 00083376

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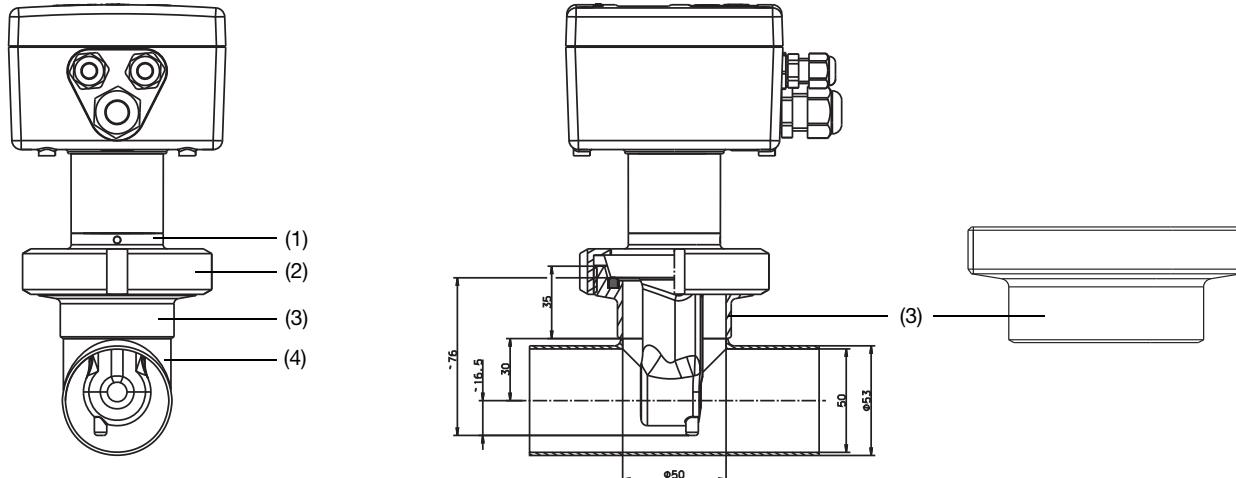
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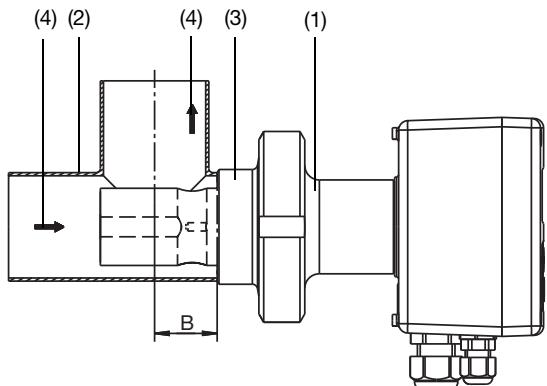


Mounting examples

Threaded pipe adapter



- (1) Process connection 607, screwed pipe fitting DN 50, DIN 11851 (MK DN 50, milk cone), PEEK
- (2) Ring nut DN 50, 1.4301
- (3) Weld-on threaded pipe adaptor DN 50, DIN 11851, 1.4404 (matching part for process connection 607)
- (4) Tee DIN 11852, short, DN50, 1.4301 (to be provided by the plant operator; **not** supplied by JUMO)



- (1) Process connection 607, screwed pipe fitting DN 50, DIN 11851 (MK DN 50, milk cone), 1.4301
- (2) Tee DIN 11852, SSS DN50, 1.4301, Dim. B shortened to 30 mm (to be provided by the plant operator; **not** supplied by JUMO)
- (3) Weld-on threaded pipe adaptor DN 50, DIN 11851, 1.4404 (matching part for process connection 607)
- (4) Flow direction

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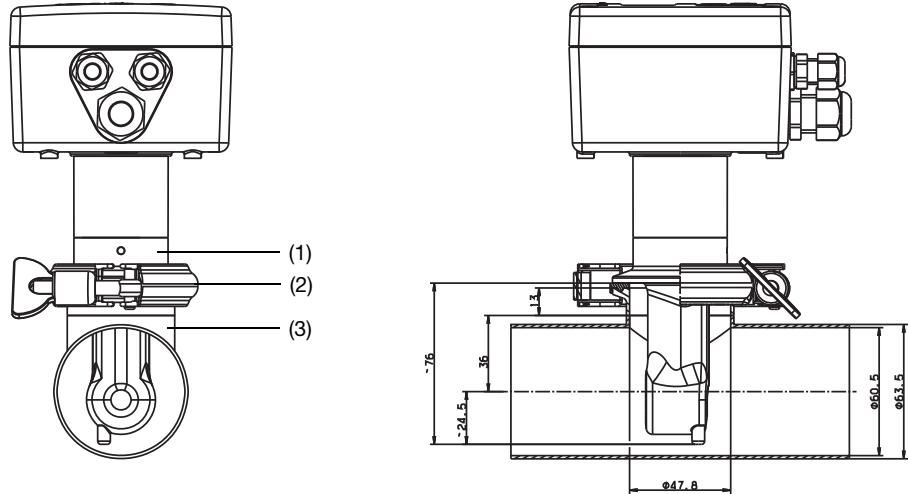
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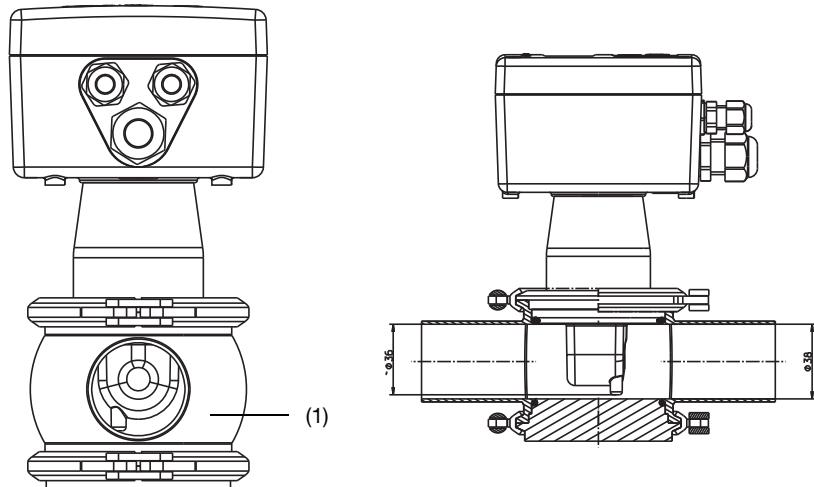
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JUMO**Clamp**

- (1) Process connection 617, Clamp 2 1/2", PEEK
(2) Clamping ring, 1.4301,
(3) Tee, short, 2.5" to 2" similar to DIN 11852, and 2" clamp adapter, 1.430 (to be provided by the plant operator; **not supplied by JUMO**)

Varivent®

- (1) Tee, VARIVENT®, DN 50, 1.4404 (to be provided by the plant operator; **not supplied by JUMO**)

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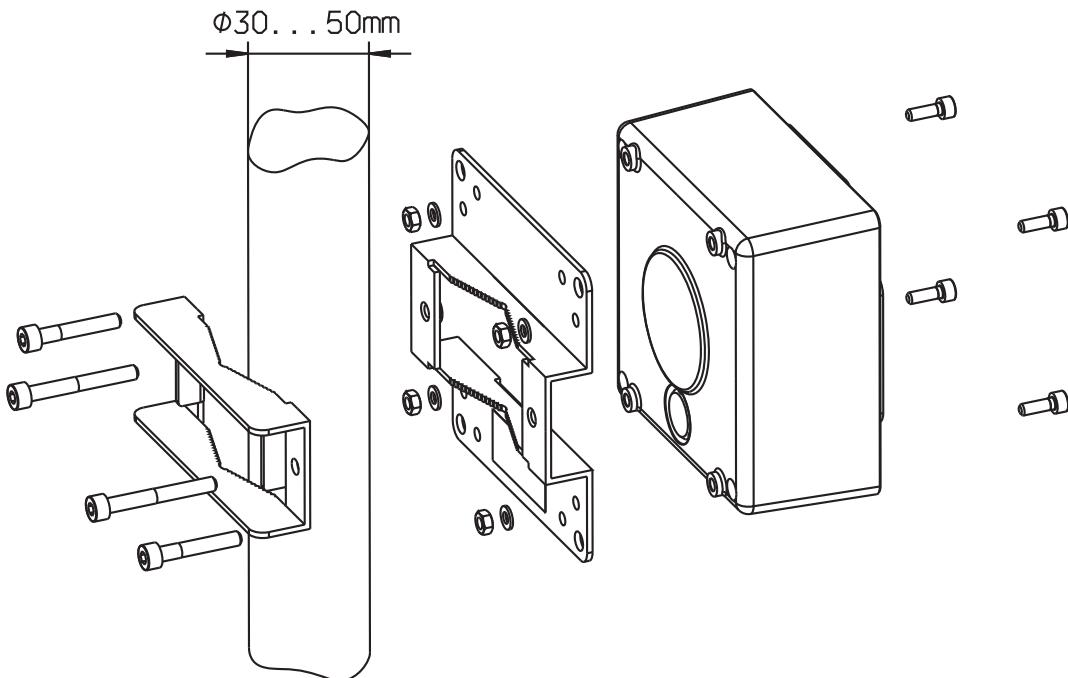
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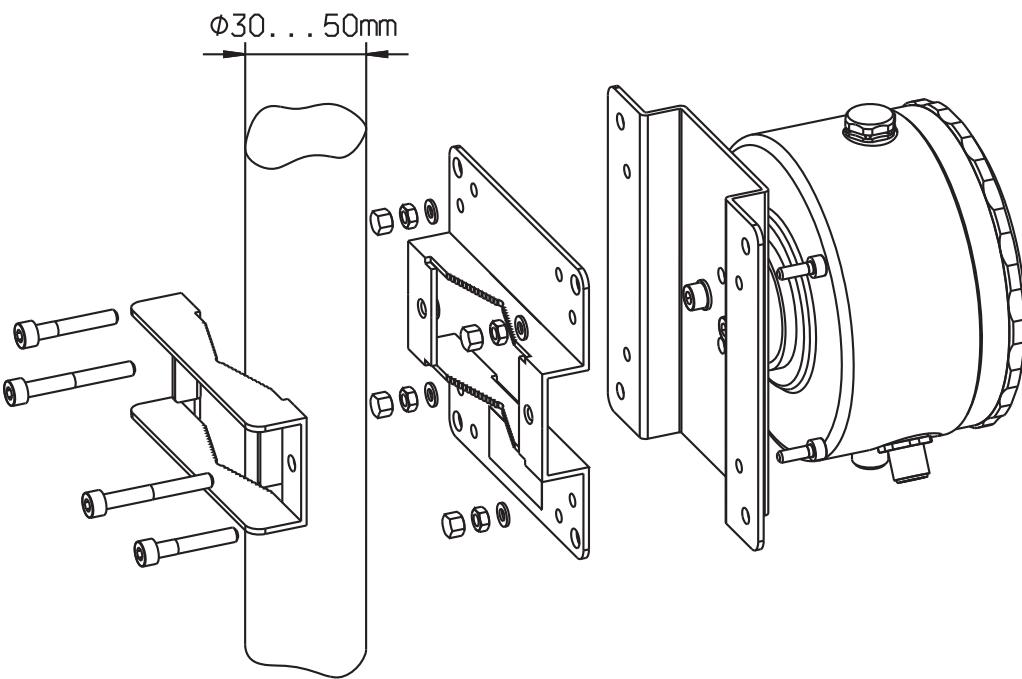
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JUMO**Kit for pipe mounting**

for type 202756, part no. 00515128



for type 202756, part no. 00515128



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Order details

JUMO CTI-750 as "Head transmitter"

| | (1) Basic type |
|-----------|---|
| 202756/10 | JUMO CTI-750 - Head transmitter in plastic housing, without display/keypad ^a |
| 202756/15 | JUMO CTI-750 - Head transmitter in plastic housing, with display/keypad |
| 202756/16 | JUMO CTI-750 - Head transmitter in stainless steel housing, with display/keypad |
| | (2) Process connection |
| 108 | Screw connection G 1 ½ A |
| 110 | Screw connection G 2 A |
| 607 | Taper socket with union nut DN 50 DIN 11851 (dairy pipe fitting) |
| 608 | Taper socket with union nut DN 65 DIN 11851 (dairy pipe fitting) |
| 609 | Taper socket with union nut DN 80 DIN 11851 (dairy pipe fitting) |
| 617 | Clamping socket (Clamp) 2 ½" ^b , similar to DIN 32676 |
| 686 | VARIVENT® connection DN 50/40 ^{b, c, d} |
| 690 | SMS DN 2" |
| | (3) Insertion length |
| 0000 | See "Dimensions for head transmitter" |
| | (4) Electrical connection |
| 82 | Cable glands ^e |
| 83 | M12 plug/socket connectors (instead of the cable glands) ^f |
| 84 | Two M16 cable glands and one blanking plug ^g |
| | (5) Extra code |
| 268 | Internal temperature sensor |
| 767 | Sensor material PEEK ^h |
| 768 | Sensor material PVDF ⁱ |
| 844 | Supply voltage 24 V AC |
| 941 | Hygienic design |

^a The PC setup program is required for programming the device, see accessories.

^b Mounting items (mounting brackets) not included in delivery.

^c Only in conjunction with extra code 767 (sensor material PEEK).

^d Hygienic process connection.

^e Not for basic type 202756/16.

^f If required, order 1 set M12 plug/socket connectors, part no. 00529482.

^g Standard on basic type extension 16.

^h Temperature sensor always internal.

ⁱ Not in combination with extra code 941.

| | (1) | (2) | (3) | (4) | (5) | |
|----------------------|------------|------------|------------|------------|------------|----------------------|
| Order code | | | | | | / , ... ^a |
| Order example | 202756/10 | - 607 | - 0000 | - 82 | - 767 | |

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

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CTI-750 as "Transmitter with separate sensor"

| | (1) Basic type |
|-----------|--|
| 202756/20 | JUMO CTI-750 Transmitter in plastic housing, without display/keypad (without sensor) ^{a, b} |
| 202756/25 | TJUMO CTI-750 transmitter in plastic housing, with display/keypad (without sensor) ^b |
| 202756/26 | JUMO CTI-750 transmitter in stainless steel housing, with display/keypad (without sensor) ^b |
| 202756/60 | JUMO CTI-750 transmitter in plastic housing, without display/keypad (with sensor) cable length 10 m ^a |
| 202756/65 | JUMO CTI-750 transmitter in plastic housing, with display/keypad (with sensor) cable length 10 m |
| 202756/66 | JUMO CTI-750 transmitter in stainless steel housing, with display/keypad (with sensor) cable length 10 m |
| 202756/80 | JUMO CTI-750 replacement sensor with 10 m cable for transmitter in plastic housing (without transmitter) ^{b, c} |
| 202756/85 | JUMO CTI-750 replacement sensor with 10 m cable for transmitter in stainless steel housing (without transmitter) ^{b, c} |
| | (2) Process connection |
| 000 | Without process connection |
| 108 | Screw connection G 1 1/2 A |
| 110 | Screw connection G 2 A |
| 607 | Taper socket with union nut DN 50 DIN 11851 (dairy pipe fitting) |
| 608 | Taper socket with union nut DN 65 DIN 11851 (dairy pipe fitting) |
| 609 | Taper socket with union nut DN 80 DIN 11851 (dairy pipe fitting) |
| 617 | Clamping socket (Clamp) 2 1/2" ^c , similar to DIN 32676 |
| 686 | VARIVENT® connection DN 50/40 ^{c, d, e} |
| 690 | SMS DN 2" |
| 706 | Immersion model ^f |
| | (3) Insertion length (see "Dimensions for separate sensor")^f |
| 0000 | Not available |
| 0500 | 500 mm |
| 1000 | 1000 mm |
| 1500 | 1500 mm |
| 2000 | 2000 mm |
| xxxx | Special length (in 250 mm increments, e.g. 0250, 0750, 1250, 1750) |
| | (4) Electrical connection |
| 21 | Fixed cable with M12 socket connector on separate sensor ^g |
| 82 | Cable glands on the operating unit |
| 83 | M12 plug/socket connectors on operating unit |
| | (5) Extra code |
| 000 | No extra code |
| 268 | Internal temperature sensor |
| 767 | Sensor material PEEK ^h |
| 768 | Sensor material PVDF ⁱ |
| 844 | Supply voltage 24 V AC |
| 941 | Hygienic design |

^a The PC setup program is required for programming the device, see accessories.

^b A calibration kit is absolutely essential for commissioning. If not available, please include in your order (see accessories).

^c Mounting items (mounting brackets) not included in delivery.

^d Only in conjunction with extra code 767 (sensor material PEEK).

^e Hygienic process connection.

^f Only in conjunction with extra code 768 (cell material PVDF).

^g Only for basic types 202756/80 and /85.

^h Temperature sensor always internal.

ⁱ Not in combination with extra code 941.

| | | | | | | | | | | |
|----------------------|------------|---|------------|---|------------|---|------------|---|------------|-----|
| Order code | (1) | - | (2) | - | (3) | - | (4) | / | (5) | ... |
| Order example | 202756/65 | - | 607 | - | 0000 | - | 82 | / | 000 | |

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

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Stock items

(shipment: 3 working days after receipt of order)

| Type | Part No. |
|-------------------------------|----------|
| 202756/10-607-0000-82/767/941 | 00553551 |
| 202756/15-607-0000-82/767/941 | 00544540 |
| 202756/15-607-0000-82/768 | 00470099 |
| 202756/15-617-0000-82/767/941 | 00551874 |
| 202756/65-607-0000-82/767/941 | 00547023 |

Accessories

| Type | Part No. |
|---|----------|
| Flange DN 32, material: PP | 00083375 |
| Flange DN 50, material: PP | 00083376 |
| Weld-on threaded adapter DN 50, DIN 11851 | 00085020 |
| Ring nut DN 50, DIN 11851 | 00343368 |
| Ring nut SMS DN 2“, Mutter | 00345162 |
| M12 plug connector, 8-pole, straight, for assembly by user | 00444307 |
| M12 socket connector, 8-pole, straight, for assembly by user | 00486503 |
| M12 socket connector, 8-pole, straight, for assembly by user | 00444312 |
| M12 socket connector, 5-pole, straight, for assembly by user | 00444313 |
| Connector set (TN 00444307 and TN 00444313) for 202755/202756 (PG209791) | 00529482 |
| Cover with LC-display and keyboard CTI-500/750 | 00443725 |
| Cover with LC-display and keyboard for VA-version | 00525488 |
| DIN rail mounting set | 00459903 |
| Pipe installation kit for CTI-750 | 00515128 |
| Switching mode power supply, type PS5R-A24 for DIN rail mounting; Input voltage 100 ... 240 V AC | 00374661 |
| Adjustment set (for calibrating a replacement transmitter) | 00459436 |
| PC interface (USB/TTL), 2 adapter setup cable | 00456352 |
| Concentration curve for CTI-750 for input via setup software | 00592816 |
| Holder for wall mounting for CTI-750 in stainless steel housing | 00477194 |

Software

| Type | Part No. |
|---------------|----------|
| Setup CTI-750 | 00454710 |