# Level measurement device with guided radar

- Universal level measurement device for liquids
- Liquid interface measurement
- Insensitive to dust and steam
- 4...20 mA/HART, 2 wires
- ATEX/IECEx certifications

Product variants described in the data sheet may differ from the product presentation and description.

## Can be combined with

**Type 8619** ▸
multiCELL – multi-channel/ multi-function transmitter/ controller

**Type 8611** ▸
eCONTROL – Universal controller

**Type 8802** ▸
ELEMENT continuous control valve systems – overview

**Type 8644** ▸
AirLINE SP electropneumatic automation system

**Type 8793** ▸
Digital electropneumatic Process Controller SideCONTROL

## Type description

The Type 8188 is a level measurement device with cable, rod, both interchangeable probe or with coax probe, designed for continuous level measurement.

The unit is suitable for liquids, for industrial use in all areas of process technology. With a measuring range up to 75 m, the 8188 is best suited for tall vessels.

Even process conditions such as strong steam generation, density fluctuations or changes of the dielectric constant do not influence the accuracy of the measurement. Build-up or condensation on the probe or vessel wall do not influence the measuring result.

A liquid interface measurement is also possible with the Type 8188, typically an oil/ water interface.

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Visit product website ▸

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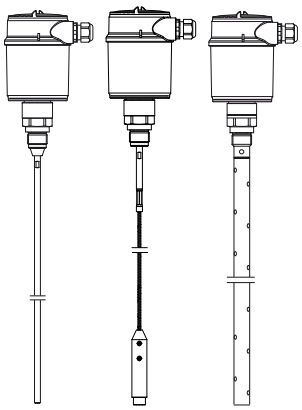
# 1. General technical data

## 1.1. About the device:

The device is available with a rod, cable or coaxial measuring probe. The technical data depends on the variant of the level measurement device with guided radar.



## 1.2. All variants

| | |
|---|---|
| **Product properties** | |
| **Material** | |
| **Make sure the device materials are compatible with the fluid you are using. Further information can be found in chapter "3.1. Bürkert resistApp" on page 7.** | |
| **Non-wetted parts** | |
| Cover | PC transparent |
| Housing | Plastic PBT (Polyester), PPS and stainless steel 316L (1.4404) |
| Grounding terminal and screw | Stainless steel 316L |
| Seal | Between housing and cover: EPDM |
| Cable gland | PA |
| Blind plug | PA |
| **Wetted parts** | |
| Seal | NBR with aramid fibres |
| Dimensions | Further information can be found in chapter "4. Dimensions" on page 8. |
| Measured quantity | Level of liquids.<br>For solids applications, contact your Bürkert sales office. |
| Measuring range | Further information can be found in chapter "5.1. Measuring range and blocking distance diagram" on page 11. |
| Damping (63 % of the input variable) | 0...999 s, adjustable |
| **Product accessories** | |
| Display/configuration module | LCD in full dot matrix<br>Further information can be found in chapter "7.4. Ordering chart accessories" on page 17. |
| **Performance data** | |
| Blocking distance | Further information can be found in chapter "5.1. Measuring range and blocking distance diagram" on page 11. |
| Measuring range resolution | < 1 mm |
| Measurement deviation [1,) 2,)] | According to DIN EN 60770-1: ± 2 mm<br>Further information can be found in chapter "5.2. Measurement deviation diagram" on page 12. |
| Non-repeatability | ≤ ± 1 mm (max.) |
| Measuring cycle time | < 500 ms |
| Step response time [3,)] | ≤ 3 s |
| Temperature drift | • Digital output: ± 3 mm/10 K related to the max. measuring range or max. 10 mm<br>• Current output: < 0.03 %/10K related to the 16 mA span or ≤ 0.3 % |
| Filling/emptying speed | Max. 1 m/min |

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| | |
|---|---|
| **Electrical data** | |
| Operating voltage ($U_n$) | • Without display/configuration module:<br>– 9.6...35 V DC<br>– 9.6...30 V DC (Ex ia instrument)<br>• With display/configuration module:<br>– 16...35 V DC<br>– 16...30 V DC (Ex ia instrument) |
| Power source (not supplied) | Limited power source according to UL/EN 62368-1 standards or limited energy circuit according to UL/EN 61010-1 paragraph 9.4 |
| DC reverse polarity protection | Yes |
| Residual ripple (for DC) | For 9.6 V < $U_n$ < 18 V: ≤ 0.7 $V_{eff}$ (16...400 Hz)<br>For 18 V < $U_n$ < 35 V: ≤ 1.0 $V_{eff}$ (16...400 Hz) |
| Overvoltage category according to IEC 61010-1 | Category III |
| Protection class according to IEC 61010-1 | Class III |
| Starting current | ≤ 3.6 mA, ≤ 10 mA for 5 ms after the switching on |
| Load resistor | ($U_n$ - $U_{min.}$)/0.022 A |
| Output | 4...20 mA/HART |
| Output signal range | 3.8...20.5 mA/HART (default setting) |
| Signal resolution | 0.3 µA |
| Output current | Max. 21.5 mA |
| Fault signal | Current output: last valid measured value, ≥ 21 mA or < 3.6 mA (adjustable) |
| Voltage supply cable | • Cable diameter: 5...9 mm<br>• Wire cross-section (spring-loaded terminals):<br>– Massive wire, stranded wire: 0.2...2.5 mm² (AWG 24...14)<br>– Stranded wire with end sleeve: 0.2...1.5 mm² (AWG 24...16) |
| **Product connections** | |
| Process connection | Thread G or NPT: ¾, 1 |
| Electrical connection | Cable gland M20 × 1.5 |
| **Approvals and conformities** | |
| **Directives** | |
| CE directive | Further information on the CE Directive can be found in chapter "2.3. Standards" on page 6. |
| NAMUR recommendation | • NE21 – Electromagnetic compatibility of equipment<br>• NE43 – Signal level for fault information from measuring transducers<br>• NE53 - Compatibility of field devices and display/adjustment components<br>• NE107 - Self-monitoring and diagnosis of field devices |
| Explosion protection | ATEX/IECEx: EN IEC 60079-0, EN 60079-11, EN 60079-26<br>Further information can be found in chapter "2.4. Explosion protection" on page 7. |
| **Environment and installation** | |
| Ambient temperature | Operation and storage: - 40...+ 80 °C (- 40...+ 176 °F) (with display/configuration module) |
| Temperature derating | Depending on the device variant.<br>Further information can be found in chapter "5.3. Temperature derating diagram" on page 14. |
| Relative air humidity | 20...85 %, without condensation |
| Height above sea level | Max. 2000 m (by default; max. 5000 m with connected overvoltage protection) |
| Degree of protection according to IEC/EN 60529 | IP66/IP67 with cable plug mounted and tightened M20 × 1.5 |
| Pollution degree | Degree 4 (when used with fulfilled housing protection) |

1.) Depending on the mounting conditions, deviations can occur which can be rectified by adapting the adjustment or changing the measured value offset in the DTM service mode.
2.) The blocking distances can be optimized by a false signal suppression.
3.) Time span a sudden measuring distance change by max. 0.5 m in liquid applications, until the output signal signal has taken for the first time 90 % of the final value (IEC 61298-2).

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## 1.3. Variant with rod probe

| Product properties | |
|---|---|
| **Material** | |
| **Wetted parts** | |
| Process connection | • Stainless steel 316L (1.4404 or 1.4435) and PPS (variant up to 6 bar)<br>• Stainless steel 316L (1.4404 or 1.4435) and PEEK (variant up to 40 bar) |
| Probe | Rod-Ø 8 mm in stainless steel 316L (1.4404 or 1.4435) |
| Seal | Process seal on the instrument side (rod lead-through) in EPDM |
| Weight | Housing: 890 g<br>Rod-Ø 8 mm: approx. 400 g/m |
| Probe length | 0.3...6 m (lateral load: 10 Nm) |
| **Medium data** | |
| Process temperature | • - 40...+ 80 °C (- 40...+ 176 °F) (for variant up to 6 bar)<br>• - 40...+ 150 °C (- 40...+ 302 °F) (for variant up to 40 bar) |
| Process pressure | • - 1...+ 6 bar (- 100...+ 600 kPa/- 14.5...+ 87 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PPS)<br>• - 1...+ 40 bar (- 100...+ 4000 kPa/- 14.5...+ 580 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PEEK) |
| Dielectric constant | $\varepsilon_r > 1.6$ |

## 1.4. Variant with cable variant and gravity weight

| Product properties | |
|---|---|
| **Material** | |
| **Wetted parts** | |
| Process connection | • Stainless steel 316L (1.4404 or 1.4435) and PPS (variant up to 6 bar)<br>• Stainless steel 316L (1.4404 or 1.4435) and PEEK (variant up to 40 bar) |
| Inner conductor | Up to separation cable: stainless steel 316L (1.4404 or 1.4435) |
| Probe | Cable-Ø 4 mm with gravity weight in stainless steel 316L (1.4404 or 1.4435) |
| Seal | Process seal on the instrument side (cable lead-through) in EPDM |
| Weight | • Housing: 890 g<br>• Cable-Ø 4 mm: approx. 60 g/m<br>• Gravity weight: approx. 200 g |
| Probe length | 0.5...75 m (max. tensile load: 2.5 KN) |
| **Medium data** | |
| Process temperature | • - 40...+ 80 °C (- 40...+ 176 °F) (for variant up to 6 bar)<br>• - 40...+ 150 °C (- 40...+ 302 °F) (for variant up to 40 bar) |
| Process pressure | • - 1...+ 6 bar (- 100...+ 600 kPa/- 14.5...+ 87 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PPS)<br>• - 1...+ 40 bar (- 100...+ 4000 kPa/- 14.5...+ 580 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PEEK) |
| Dielectric constant | $\varepsilon_r > 1.6$ |

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### 1.5. Variant with coaxial probe

| Product properties | |
|---|---|
| **Material** | |
| **Wetted parts** | |
| Process connection | Stainless steel 316L (1.4404 or 1.4435) and PEEK |
| Inner conductor | Up to separation rod: stainless steel 316L (1.4404 or 1.4435) |
| Probe | Coaxial-Ø 21.3 mm (tube) in stainless steel 316L (1.4404 or 1.4435) |
| Seal | Process seal on the instrument side (rod lead-through) in EPDM |
| Weight | • Housing: 890 g<br>• Coaxial-Ø 21.3 mm: approx. 1110 g/m |
| Probe length | 0.3...6 m (lateral load: 60 Nm) |
| **Medium data** | |
| Process temperature | - 40...+ 150 °C (- 40...+ 302 °F) |
| Process pressure | - 1...+ 40 bar (- 100...+ 4000 kPa/- 14.5...+ 580 psig) |
| Dynamic viscosity η | 0.1...500 mPa s (requirement: with density 1) |
| Dielectric constant | $\varepsilon_r > 1.4$ |

## 2. Approvals and conformities

### 2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

### 2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

### 2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

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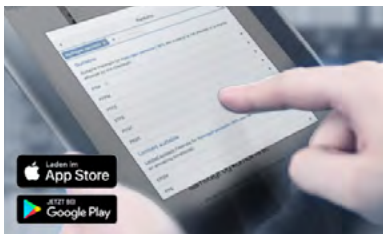
## 2.4. Explosion protection

**Note:**
Devices with Ex certification have different technical data, see **Supplement ATEX/IECEx Type 8188** ▶ under “User manuals”.

| Approval | Description |
|---|---|
| | **Optional: Explosion protection**<br>Ex marking of the components according to:<br><br>**ATEX:**<br>TÜV 19 ATEX 260229X<br>• II 1G Ex ia IIC T6...T1 Ga resp.<br>• II 1/2G Ex ia IIC T6...T1 Ga/Gb resp.<br>• II 2G Ex ia IIC T6...T1 Gb<br><br>**IECEx:**<br>IECEx TUN 19.0021X<br>• Ex ia IIC T6...T1 Ga resp.<br>• Ex ia IIC T6...T1 Ga/Gb resp.<br>• Ex ia IIC T6...T1 Gb<br><br>Measures for compliance with ATEX/IECEx requirements: see **Additional manual/Supplement ATEX/IECEx Type 8188** ▶ under “User manuals”.<br>The Ex. certification is only valid if the Bürkert device is used as described in the additional manual/supplement. Any unauthorized modifications made to the device will invalidate the Ex certification. |

# 3. Materials

## 3.1. Bürkert resistApp




**Bürkert resistApp – Chemical resistance chart**

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

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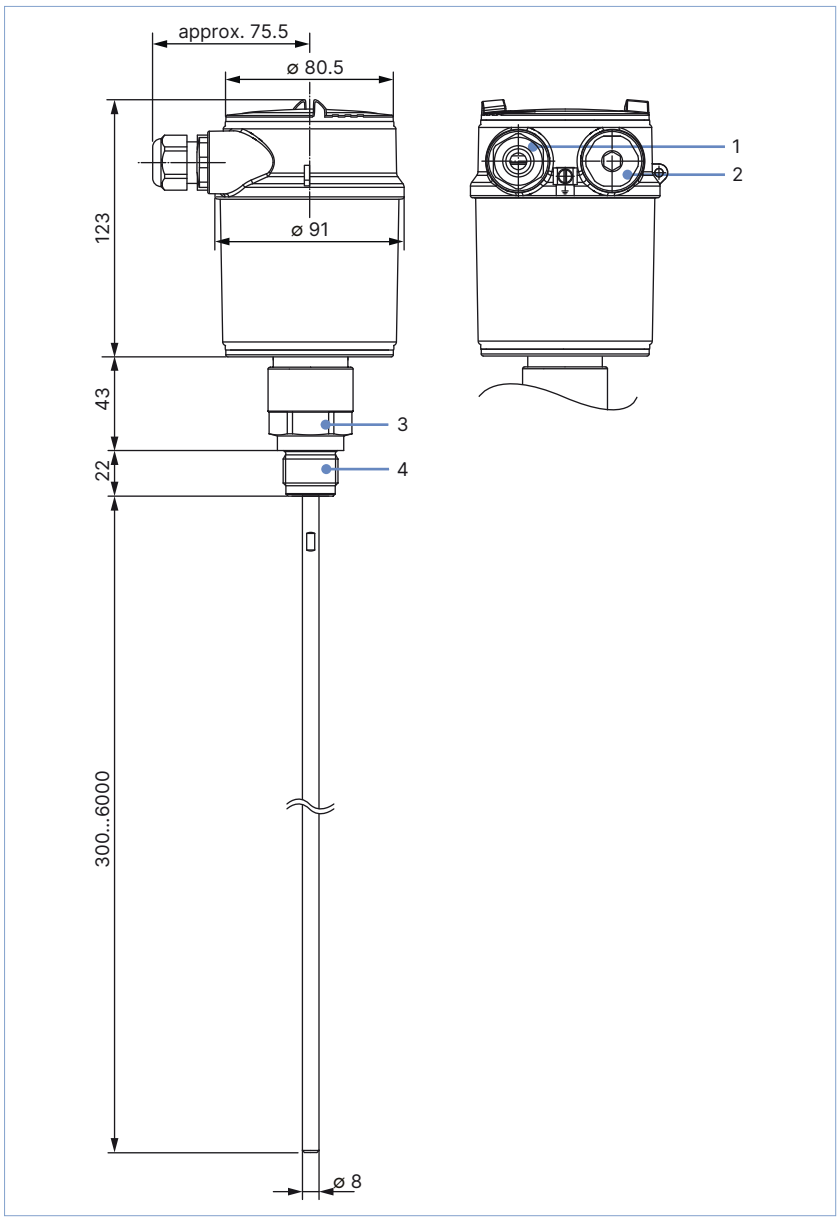
# 4. Dimensions

## 4.1. Variant with rod probe

**Note:**
Dimensions in mm, unless otherwise stated




| No. | Element |
|---|---|
| 1 | Cable gland M20 × 1.5 |
| 2 | Blind plug M20 × 1.5 |
| 3 | AF36 for G or NPT ¾<br>AF41 for G or NPT 1 |
| 4 | G or NPT ¾<br>G or NPT 1 |

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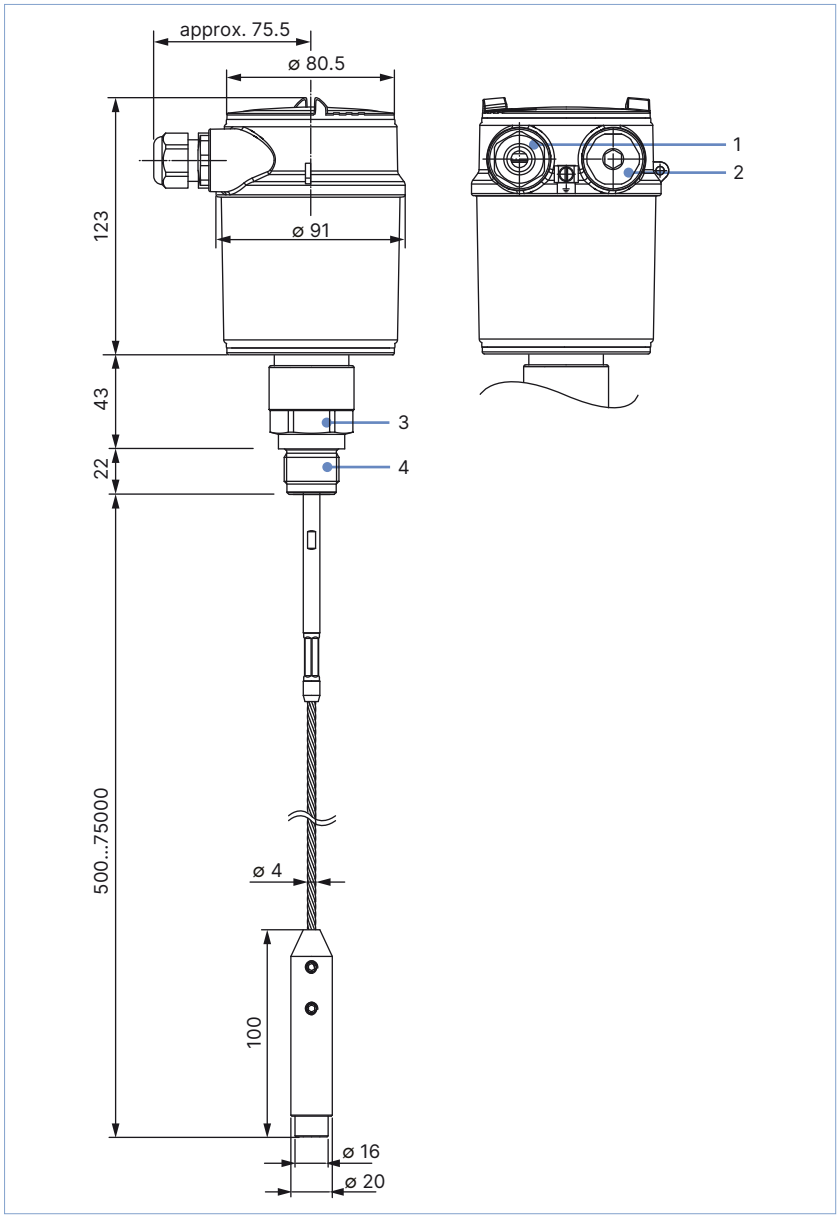
## 4.2. Variant with cable probe and gravity weight

**Note:**
Dimensions in mm, unless otherwise stated




| No. | Element |
|---|---|
| 1 | Cable gland M20 × 1.5 |
| 2 | Blind plug M20 × 1.5 |
| 3 | AF36 for G or NPT ¾<br>AF41 for G or NPT 1 |
| 4 | G or NPT ¾<br>G or NPT 1 |

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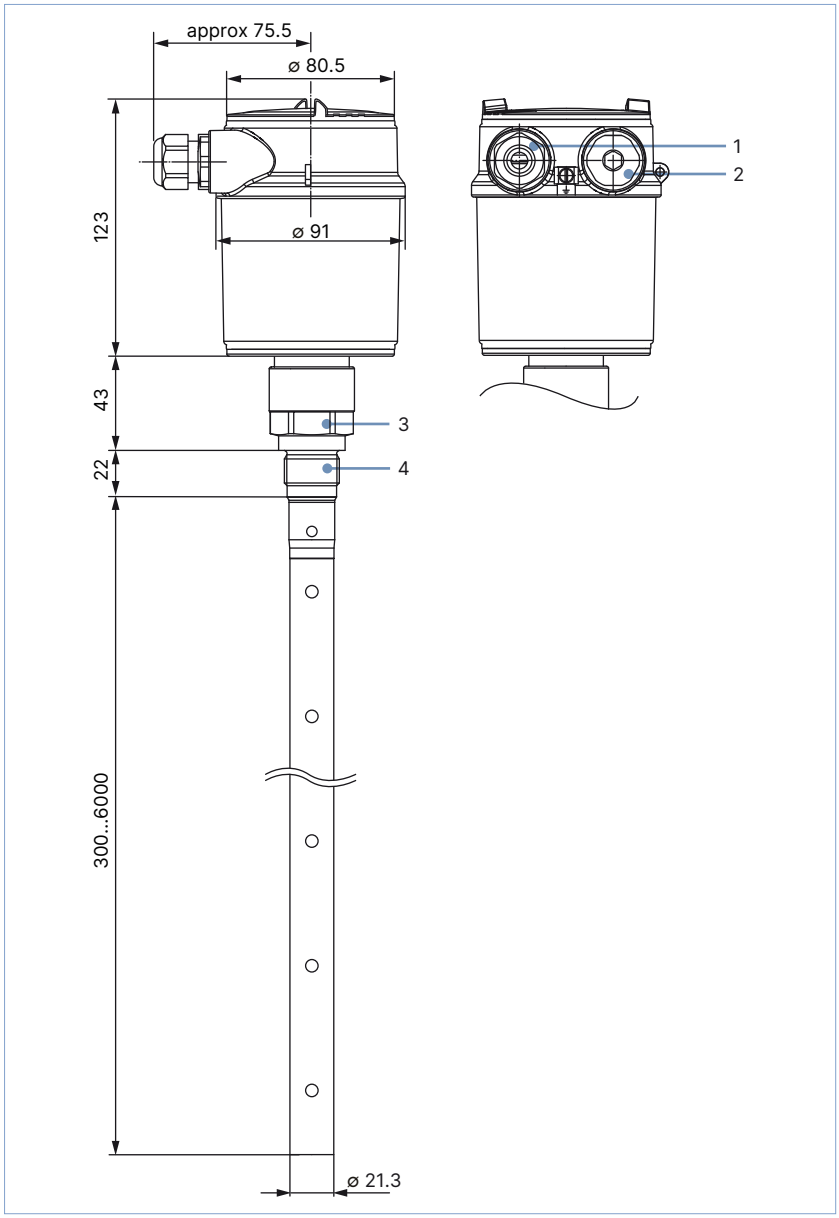
## 4.3. Variant with coaxial probe

**Note:**
Dimensions in mm, unless otherwise stated




| No. | Element |
|---|---|
| 1 | Cable gland M20 × 1.5 |
| 2 | Blind plug M20 × 1.5 |
| 3 | AF36 for G or NPT ¾<br>AF41 for G or NPT 1 |
| 4 | G or NPT ¾<br>G or NPT 1 |

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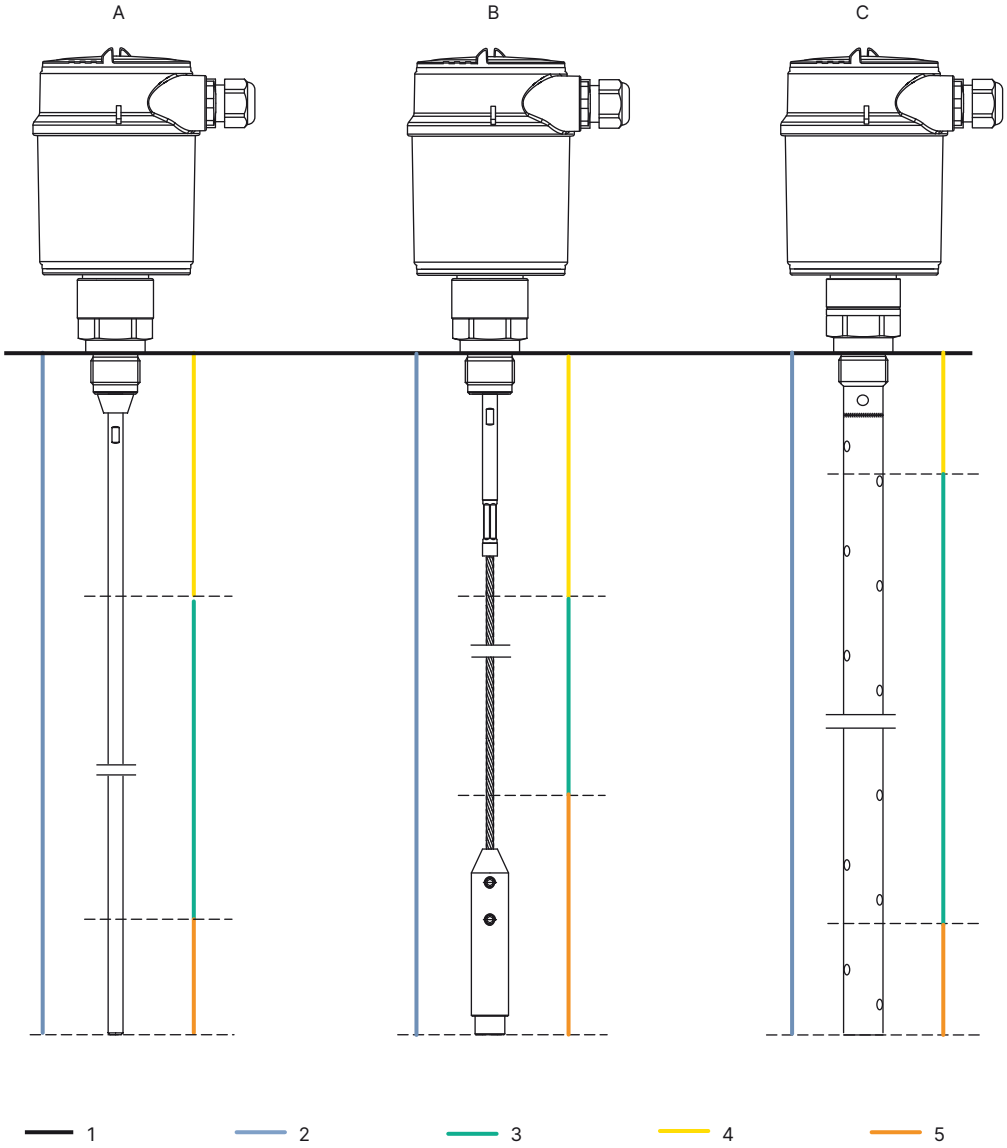
# 5. Performance specifications

## 5.1. Measuring range and blocking distance diagram



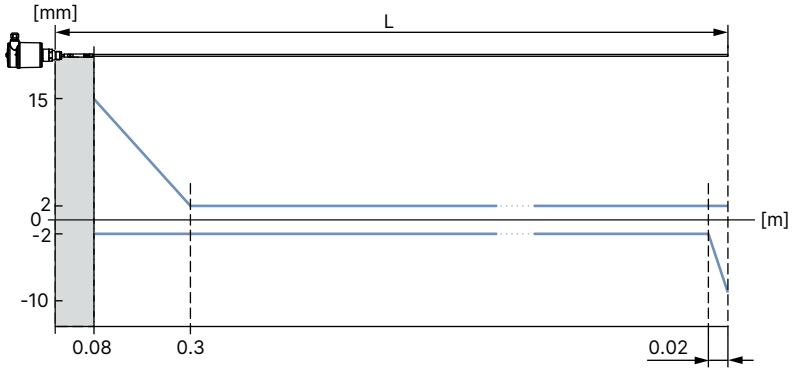

| Range length | | | | |
|---|---|---|---|---|
| **No.** | **Description** | **A: rod variant** | **B: cable variant** | **C: coaxial variant** |
| **1** | Reference plane | – | – | – |
| **2** | Measuring probe length | 0.3...6 m | 0.5...75 m | 0.3...6 m |
| **3** | Measurement range | In water: 0.08...6 m<br>In oil: 0.15...5.95 m | In water: 0.08...75 m<br>In oil: 0.15...74.85 m | In water: 0.03...6 m<br>In oil: 0.10...5.95 m |
| **4** | Upper blocking distance | In water: 0.08 m<br>In oil: 0.15 m | In water: 0.08 m<br>In oil: 0.15 m | In water: 0.03 m<br>In oil: 0.10 m |
| **5** | Lower blocking distance | In water: 0 m<br>In oil: 0.05 m | In water: 0 m<br>In oil: 0.15 m | In water: 0 m<br>In oil: 0.05 m |

## 5.2. Measurement deviation diagram

**Variant with rod probe in water**

**Note:**

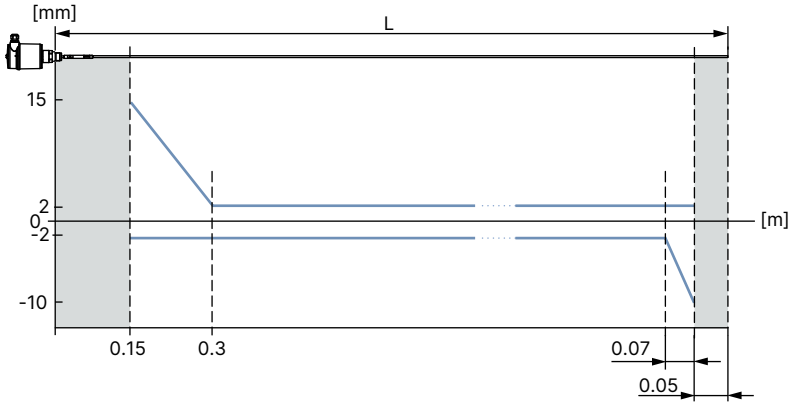
- The blocking distance is indicated by the grey area in the diagram. No measurement is possible in this area.
- The length L represents the length of the probe.




**Variant with rod probe in oil**

**Note:**

- The blocking distance is indicated by the grey area in the diagram. No measurement is possible in this area.
- The length L represents the length of the probe.

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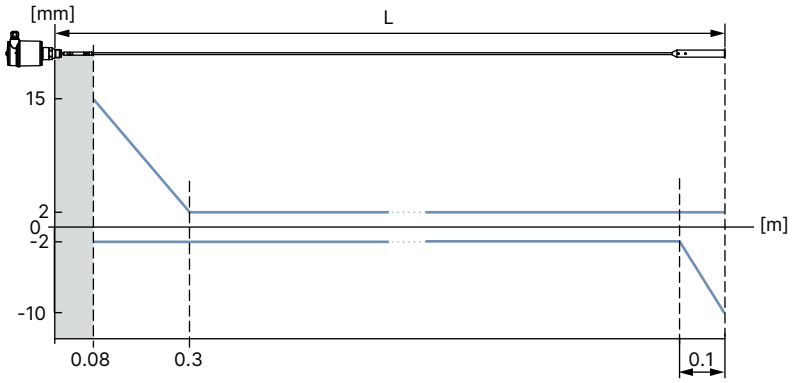
### Variant with cable probe in water

**Note:**

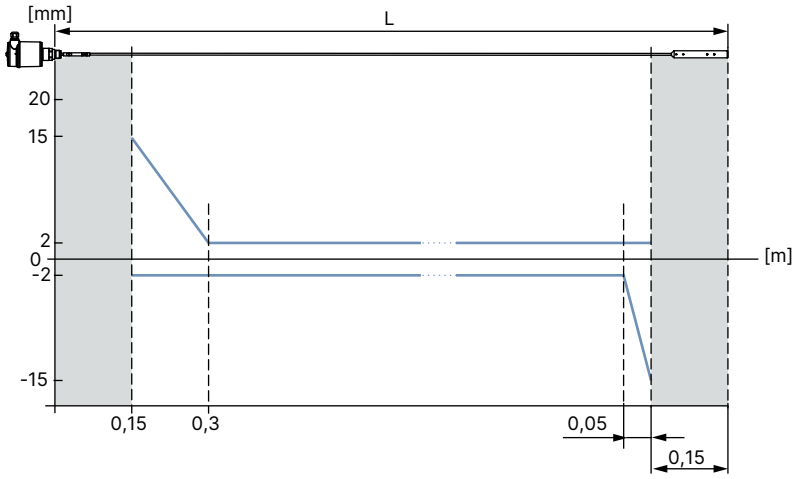
- The blocking distance is indicated by the grey area in the diagram. No measurement is possible in this area.
- The length L represents the length of the probe.




### Variant with cable probe in oil

**Note:**

- The blocking distance is indicated by the grey area in the diagram. No measurement is possible in this area.
- The length L represents the length of the probe.

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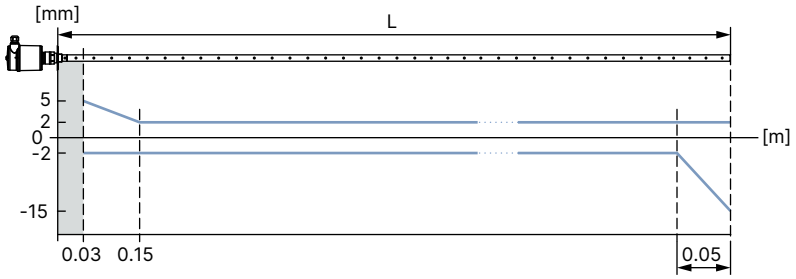
### Variant with coaxial probe in water

**Note:**

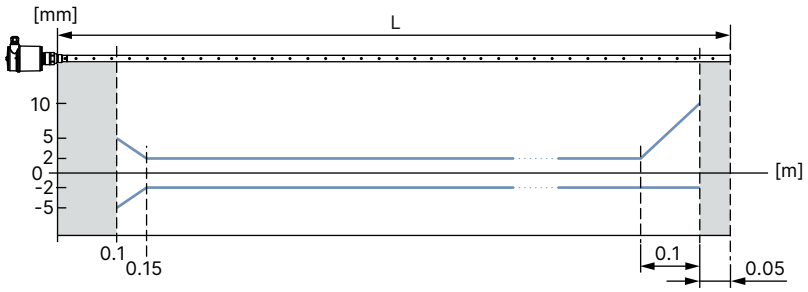
- The blocking distance is indicated by the grey area in the diagram. No measurement is possible in this area.
- The length L represents the length of the probe.



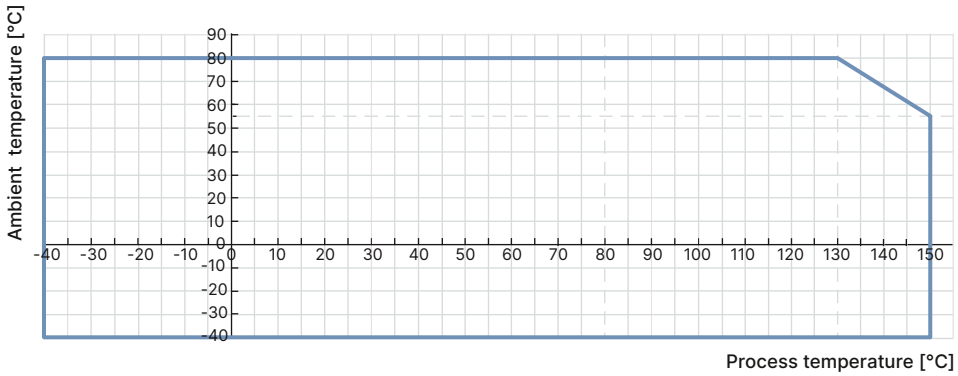

### Variant with coaxial probe in oil

**Note:**

- The blocking distance is indicated by the grey area in the diagram. No measurement is possible in this area.
- The length L represents the length of the probe.




## 5.3. Temperature derating diagram

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# 6. Product operation

## 6.1. Measuring principle

High frequency microwave pulses are guided along a steel cable, a rod or a coaxial cable. When they reach the product surface, the microwave pulses are reflected and received by the processing electronics. The running time is evaluated by the instrument and outputted as distance. Time consuming adjustment with medium is not necessary. The instruments are pre-set to the ordered probe length.
The shortenable cable, rod and coaxial variants can be adapted individually to the local requirements.

## 6.2. Product operation notes

The measuring device can be adjusted with:

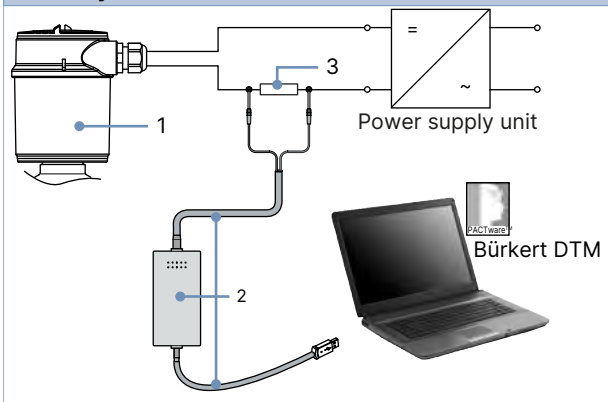
- The display/configuration module
- The suitable Bürkert DTM in conjunction with a software according to the FDT/DTM standard, e.g. PACTware™ and PC
- With a HART handheld

The entered parameters are generally saved in the measuring device Type 8188. Optionally, parameters may also be uploaded and downloaded with the display/configuration module or saved in a file by using PACTware™/Type 8188-DTM.

**Set up with display/configuration module**

| Display/configuration module | Description |
|---|---|
| | The display/configuration module can be inserted into the measuring device and removed again at any time. It is not necessary to interrupt the power supply. The measuring device is adjusted via the four keys of the display/configuration module. |

**Set up with PACTware™/DTM and HART communication**

| Assembly | Description |
|---|---|
|  | The measuring device can be operated thanks to PACTware™, via HART communication. An interface adapter is necessary for the adjustment with PACTware™. For the setup of the Type 8188, the DTM in the actual version must be used. The basic version of DTM incl. PACTware™ is available as a free-of-charge download from the internet at **www.burkert.com** ▶.<br><br>**Connecting the PC via HART**<br><br>**No. / Description**<br>**1** Measuring device Type 8188<br>**2** HART-USB Modem<br>**3** Resistance 250 Ω<br><br>Necessary components:<br>• Measuring device Type 8188<br>• PC with PACTware™ and suitable Bürkert DTM<br>• HART-USB Modem<br>• Resistance approx. 250 Ω<br>• Power supply unit |

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# 7. Ordering information

## 7.1. Bürkert eShop

**Bürkert eShop – Easy ordering and quick delivery**

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

## 7.2. Bürkert product filter

**Bürkert product filter – Get quickly to the right product**

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

## 7.3. Ordering chart

**Note:**
The following variants are supplied with display/configuration module.

| Description | Operating voltage | Sensor variant | Probe length | Output | Electrical connection | Article no. |
|---|---|---|---|---|---|---|
| **Standard variant** | | | | | | |
| G ¾ mounting thread, PN 6, temp. max. 80 °C | 16...35 V DC | Rod | 1 m | 4...20 mA/HART (2 wires) | Cable gland M20 × 1.5 | 565800 |
| | | | 2 m | | | 565804 |
| | | Cable | 5 m | | | 565812 |
| | | | 10 m | | | 565816 |
| | | Coaxial | 1 m | | | 565823 |
| | | | 2 m | | | 565824 |
| G 1 mounting thread, PN 40, temp. max. 150 °C | | Rod | 1 m | | | 565802 |
| | | | 2 m | | | 565806 |
| | | Cable | 5 m | | | 565814 |
| | | | 10 m | | | 565818 |
| | | Coaxial | 1 m | | | 565825 |
| | | | 2 m | | | 565826 |
| NPT ¾ mounting thread, PN 6, temp. max. 80 °C | | Rod | 1 m | | | 565801 |
| | | | 2 m | | | 565805 |
| | | Cable | 5 m | | | 565813 |
| | | | 10 m | | | 565817 |
| | | Coaxial | 1 m | | | 565827 |
| | | | 2 m | | | 565828 |
| NPT 1 mounting thread, PN 40, temp. max. 150 °C | | Rod | 1 m | | | 565803 |
| | | | 2 m | | | 565807 |
| | | Cable | 5 m | | | 565815 |
| | | | 10 m | | | 565819 |
| | | Coaxial | 1 m | | | 565829 |
| | | | 2 m | | | 565830 |

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| Description | Operating voltage | Sensor variant | Probe length | Output | Electrical connection | Article no. |
|---|---|---|---|---|---|---|
| **Ex variant - ATEX certification** | | | | | | |
| G ¾ mounting thread, PN 6, temp. max. 80 °C | 16...30 V DC | Rod | 1 m | 4...20 mA/HART (2 wires) | Cable gland M20 × 1.5 | 565808 |
| | | | 2 m | | | 565810 |
| | | Cable | 5 m | | | 565820 |
| | | Coaxial | 1 m | | | 565831 |
| | | | 2 m | | | 565832 |
| G 1 mounting thread, PN 40, temp. max. 150 °C | 16...30 V DC | Rod | 1 m | | | 565809 |
| | | | 2 m | | | 565811 |
| | | Cable | 5 m | | | 565821 |
| | | Coaxial | 1 m | | | 565833 |
| | | | 2 m | | | 565834 |
| **Ex variant - IECex certification** | | | | | | |
| NPT ¾ mounting thread, PN 6, temp. max. 80 °C | 16...30 V DC | Rod | 1 m | 4...20 mA/HART (2 wires) | Cable gland M20 × 1.5 | 565839 |
| | | | 2 m | | | 565840 |
| | | Cable | 5 m | | | 565841 |
| | | Coaxial | 1 m | | | 565835 |
| | | | 2 m | | | 565836 |
| NPT 1 mounting thread, PN 40, temp. max. 150 °C | 16...30 V DC | Rod | 1 m | | | 565842 |
| | | | 2 m | | | 565843 |
| | | Cable | 5 m | | | 565844 |
| | | Coaxial | 1 m | | | 565837 |
| | | | 2 m | | | 565838 |

**Further variants on request**

| | |
|---|---|
| **Material**<br>• FFKM<br>• Alloy C22 (2.4602) | **Temperature**<br>- 40...+ 200 °C |
| **Process connection**<br>• Thread G or NPT ½ (PN 40 ,150 °C), 1½<br>• Flange DN 25, DN 40, DN 50, DN 80, DN 100, DN 150<br>• Flange 1", 1 ½", 2", 3", 4", 6" | **Additional**<br>With display |

## 7.4. Ordering chart accessories

| Description | Article no. |
|---|---|
| Set with two adapters M20 × 1.5 /NPT ½, two neoprene flat seals for cable gland or plug and two screw plugs M20 × 1.5 | 551782 |
| Hart-USB Modem | 560177 |
| Set with a display/configuration module, a transparent cover and a sealing ring | 559279 |
| Set with a transparent cover and a sealing ring | 561006 |

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