



## 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

	<b>Type 8619</b> ▶ multiCELL - Multi-channel and multi-function transmitter/controller
	<b>Type 8611</b> ▶ eCONTROL - Universal controller
	<b>Type 8802</b> ▶ ELEMENT continuous control valve systems - overview
	<b>Type 8644</b> ▶ Remote Process Actuation Control System AirLINE
	<b>Type 8793</b> ▶ 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.

## Table of contents

<b>1. General technical data</b>	<b>3</b>
<hr/>	
<b>2. Product versions</b>	<b>5</b>
2.1. Rod version.....	5
2.2. Cable version with gravity weight .....	5
2.3. Coaxial version .....	6
<b>3. Approvals</b>	<b>7</b>
3.1. Certification ATEX .....	7
<b>4. Materials</b>	<b>7</b>
4.1. Chemical Resistance Chart – Bürkert resistApp.....	7
<b>5. Dimensions</b>	<b>8</b>
5.1. Rod version.....	8
5.2. Cable version with gravity weight .....	9
5.3. Coaxial version .....	10
<b>6. Performance specifications</b>	<b>11</b>
6.1. Measuring range and block distance diagram.....	11
6.2. Measurement deviation diagram .....	12
Rod probe version in water.....	12
Rod probe version in oil.....	12
Cable probe version in water .....	12
Cable probe version in oil .....	13
Coaxial probe version in water .....	13
Coaxial probe version in oil.....	13
6.3. Temperature derating diagram.....	14
<b>7. Product operation</b>	<b>14</b>
7.1. Measuring principle .....	14
7.2. Product operation notes .....	14
Set up with display/configuration module .....	14
Set up with PACTware™/DTM and HART communication.....	15
<b>8. Ordering information</b>	<b>15</b>
8.1. Bürkert eShop – Easy ordering and quick delivery.....	15
8.2. Bürkert product filter.....	15
8.3. Ordering chart.....	16
8.4. Ordering chart accessories.....	17

## 1. General technical data

### Product properties

#### Materials

Please make sure the device materials are compatible with the fluid you are using. Detailed information can be found in chapter [“4.1. Chemical Resistance Chart – Bürkert resistApp”](#) on page 7.

#### Non wetted parts

Housing	Plastic PBT (Polyester), PPS and stainless steel 316L (1.4404)
Cover	PC transparent
Seal between housing and housing cover	EPDM
Cable gland	PA
Blind plug	PA
Ground terminal	Stainless steel 316L

#### Wetted parts

Depending on the device version. Detailed information can be found in chapter [“2. Product versions”](#) on page 5.

Process seal	Klingsil C-4400
Display	LCD in full dot matrix
Power supply cable	<ul style="list-style-type: none"> <li>Cable diameter: 5...9 mm</li> <li>Wire cross-section (spring-loaded terminals): <ul style="list-style-type: none"> <li>Massive wire, stranded wire: 0.2...2.5 mm<sup>2</sup> (AWG 24...14)</li> <li>Stranded wire with end sleeve: 0.2...1.5 mm<sup>2</sup> (AWG 24...16)</li> </ul> </li> </ul>
Weights	Depending on the device version. Detailed information can be found in chapter <a href="#">“2. Product versions”</a> on page 5.
Length	Depending on the device version. Detailed information can be found in chapter <a href="#">“2. Product versions”</a> on page 5.
Measured variable	Level of liquids. For solids applications, please contact your local Bürkert Sales Center.
Blocking distance	Detailed information can be found in chapter <a href="#">“6.1. Measuring range and block distance diagram”</a> on page 11.
Temperature drift	<0.03 %/10K relating to the 16 mA span or max. 0.3 %
Damping (63 % of the input variable)	0...999 s, adjustable

### Electrical data

Operating voltage ( $U_n$ )	9.6...35 V DC or 9.6...30 V DC (Ex ia instrument) filtered and regulated Connection to main supply: permanent (through external SELV and LPS power supply)
Power Source (not supplied)	Limited power source according to UL/EN 60950-1 standards or limited energy circuit according to UL/EN 61010-1 §9.4
Starting current	≤3.6 mA, ≤10 mA for 5 ms after switching on
Output signal	4...20 mA/HART
Signal resolution	0.3 μA
Range of the output signal	3.8...20.5 mA/HART (default setting)
Load resistor (max.)	$(U_n - U_{min})/0.0215$ A
Fault signal	Last valid measured value or ≥21 mA, <3.6 mA (adjustable)
Output current (max.)	21.5 mA
Residual ripple (permissible for DC)	For 12 V < $U_n$ < 18 V: ≤0.7 V <sub>eff</sub> (16...400 Hz) For 18 V < $U_n$ < 35 V: ≤1.0 V <sub>eff</sub> (16...400 Hz)

### Performance data

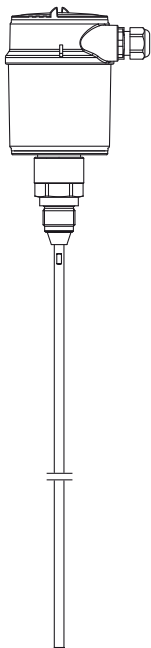
Measuring range	Detailed information can be found in chapter <a href="#">“6.1. Measuring range and block distance diagram”</a> on page 11.
Measurement deviation <sup>1,2)</sup>	According to DIN EN 60770-1: ±2 mm. Detailed information can be found in chapter <a href="#">“6.2. Measurement deviation diagram”</a> on page 12.
Measuring range resolution	<1 mm
Measuring cycle time	<500 ms
Step response time <sup>3)</sup>	≤3 s
Dielectric figure (min.)	Depending on the device version. Detailed information can be found in chapter <a href="#">“2. Product versions”</a> on page 5.
Max. filling/emptying speed	1 m/min
Vibration resistance	Depending on the device version. Detailed information can be found in chapter <a href="#">“2. Product versions”</a> on page 5.

Shock resistance	Depending on the device version. Detailed information can be found in chapter <a href="#">“2. Product versions” on page 5.</a>
Repeatability	≤ ± 1 mm (max.)
<b>Medium data</b>	
Process temperature	Depending on the device version. Detailed information can be found in chapter <a href="#">“2. Product versions” on page 5.</a>
Process pressure	Depending on the device version. Detailed information can be found in chapter <a href="#">“2. Product versions” on page 5.</a>
<b>Approvals and Certificates</b>	
<b>Standards</b>	
Protection class according to IEC/EN 60529	IP66/IP67 with cable plug mounted and tightened M20 x 1.5
Overvoltage category according to IEC 61010-1	Category III
Protection rating according to IEC 61010-1	Class III
<b>Directives</b>	
CE directives	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable)
NAMUR recommendations	NE21 - Electromagnetic compatibility of equipment NE43 - Signal level for fault information from measuring transducers NE53 - Compatibility of field devices and display/adjustment components NE107 - Self-monitoring and diagnosis of field devices
<b>Approvals</b>	
IECex / ATEX	IEC/EN60079-0, IEC/EN60079-11, IEC/EN60079-26. Detailed information can be found in chapter <a href="#">“3.1. Certification ATEX” on page 7.</a>
<b>Product connections</b>	
Process connection	Thread G or NPT - ¾", 1"
Electrical connections	Cable gland M20 x 1.5
<b>Environment and installation</b>	
Ambient temperature	Operation and storage: -40...+80 °C (-40...+176 °F) (with display/configuration module)
Derating temperature	Depending on the device version. Detailed information can be found in chapter <a href="#">“6.3. Temperature derating diagram” on page 14.</a>
Relative air humidity	20...85 %, without condensation
Height above sea level	By default: max. 2000 m With connected overvoltage protection: max. 5000 m
Degree of pollution	Grade 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 via a false signal suppression.
- 3.) Time span, after a sudden change in the measuring distance of max. 0.5 m in liquid applications (max. 2 m with bulk solids applications), until the output signal has assumed for the first time 90 % of the final value (IEC 61298-2).

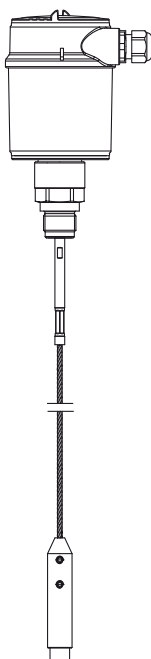
## 2. Product versions

### 2.1. Rod version



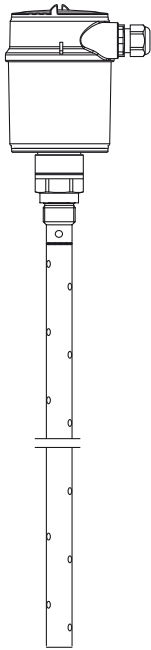
Product details	
Materials	Wetted parts: <ul style="list-style-type: none"> <li>• Process connection in:               <ul style="list-style-type: none"> <li>– stainless steel 316L (1.4404 or 1.4435) and PPS (version up to 6 bar)</li> <li>– stainless steel 316L (1.4404 or 1.4435) and PEEK (version up to 40 bar)</li> </ul> </li> <li>• Process seal on the instrument side (rod lead-through) in EPDM</li> <li>• Rod-Ø 8 mm in stainless steel 316L (1.4404 or 1.4435)</li> </ul>
Weights	<ul style="list-style-type: none"> <li>• Housing: 890 g</li> <li>• Rod-Ø 8 mm: approx. 400 g/m</li> </ul>
Probe length	0.3...6 m (lateral load: 10 Nm)
Dielectric figure (min.)	$\epsilon_r > 1.6$
Vibration resistance	<ul style="list-style-type: none"> <li>• Housing: 4 g with 5...200 Hz according to EN 60068-2-6 (vibration at resonance)</li> <li>• Measuring probe: 1 g with 5...200 Hz according to EN 60068-2-6 (vibration at resonance) with tube length 50 cm</li> </ul>
Shock resistance	<ul style="list-style-type: none"> <li>• Housing: 100 g, 6 ms according to EN 60068-2-27 (mechanical shock)</li> <li>• Measuring probe: 25 g, 6 ms according to EN 60068-2-27 (mechanical shock) with tube length 50 cm</li> </ul>
Process temperature	<ul style="list-style-type: none"> <li>• -40...+80 °C (-40...+176 °F) (for version up to 6 bar)</li> <li>• -40...+150 °C (-40...+302 °F) (for version up to 40 bar)</li> </ul>
Process pressure	<ul style="list-style-type: none"> <li>• -1...+6 bar (-100...+600 kPa/-14.5...+87 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PPS)</li> <li>• -1...+40 bar (-100...+4000 kPa/-14.5...+580 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PEEK)</li> </ul>

### 2.2. Cable version with gravity weight



Product details	
Materials	Wetted parts: <ul style="list-style-type: none"> <li>• Process connection in:               <ul style="list-style-type: none"> <li>– stainless steel 316L (1.4404 or 1.4435) and PPS GF40 (version up to 6 bar)</li> <li>– stainless steel 316L (1.4404 or 1.4435) and PEEK (version up to 40 bar)</li> </ul> </li> <li>• Inner conductor (up to separation cable) in stainless steel 316L (1.4404 or 1.4435)</li> <li>• Process seal on the instrument side (cable lead-through) in EPDM</li> <li>• Cable-Ø 4 mm with gravity weight in stainless steel 316L (1.4404 or 1.4435)</li> </ul>
Weights	<ul style="list-style-type: none"> <li>• Housing: 890 g</li> <li>• Cable-Ø 4 mm: approx. 60 g/m</li> <li>• Gravity weight: approx. 200 g</li> </ul>
Probe length	0.5...75 m (max. tensile load: 2.5 kN)
Dielectric figure (min.)	$\epsilon_r > 1.6$
Process temperature	<ul style="list-style-type: none"> <li>• -40...+80 °C (-40...+176 °F) (for version up to 6 bar)</li> <li>• -40...+150 °C (-40...+302 °F) (for version up to 40 bar)</li> </ul>
Process pressure	<ul style="list-style-type: none"> <li>• -1...+6 bar (-100...+600 kPa/-14.5...+87 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PPS)</li> <li>• -1...+40 bar (-100...+4000 kPa/-14.5...+580 psig) (for process connection in stainless steel 316L (1.4404 or 1.4435) and PEEK)</li> </ul>

## 2.3. Coaxial version





Product details	
Materials	Wetted parts: <ul style="list-style-type: none"> <li>• Process connection in stainless steel 316L (1.4404 or 1.4435) and PEEK</li> <li>• Inner conductor (up to separation cable) in stainless steel 316L (1.4404 or 1.4435)</li> <li>• Process seal on the instrument side (rod lead-through) in EPDM</li> <li>• Coaxial-Ø 21.3 mm (tube) in stainless steel 316L (1.4404 or 1.4435)</li> </ul>
Weights	<ul style="list-style-type: none"> <li>• Housing: 890 g</li> <li>• Coaxial-Ø 21.3 mm: approx. 1110 g/m</li> </ul>
Probe length	0.3...6 m (lateral load: 60 Nm)
Dielectric figure (min.)	$\epsilon_r > 1.4$
Viscosity - dynamic	0.1...500 mPa s (requirement: with density 1)
Vibration resistance	<ul style="list-style-type: none"> <li>• Housing: 4 g with 5...200 Hz according to EN 60068-2-6 (vibration at resonance)</li> <li>• Measuring probe: 1 g with 5...200 Hz according to EN 60068-2-6 (vibration at resonance) with tube length 50 cm</li> </ul>
Shock resistance	<ul style="list-style-type: none"> <li>• Housing: 100 g, 6 ms according to EN 60068-2-27 (mechanical shock)</li> <li>• Measuring probe: 25 g, 6 ms according to EN 60068-2-27 (mechanical shock) with tube length 50 cm</li> </ul>
Process temperature	-40...+150 °C (-40...+302 °F)
Process pressure	-1...+40 bar (-100...+4000 kPa/-14.5...+580 psig)

### 3. Approvals

#### 3.1. Certification ATEX

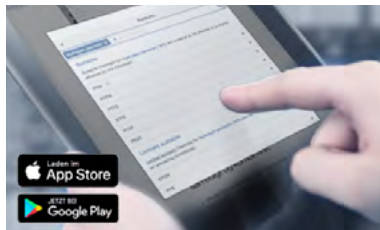
**Note:**

Devices with Ex or IEC certification have different technical data.

Certificate	Description	
	<b>TÜV 14 ATEX 7490 X</b> <b>Specifications Ex</b> Ex Protection Categories 1G, 1/2G or 2G Ex Certification EEx ia IIC T6 <b>Conformity specifications</b> Operating voltage Ui 30 V Short circuit rating Ii 131 mA Power limitation Pi 983 mW Ambient temperature -50...+46 °C (-58...+114.8 °F) (dependent on categories) Internal capacity Ci negligible Internal inductivity Li ≤5 µH	
		<b>IECEx TUR 14.0014 X</b> <b>Specifications Ex</b> Ex Protection Categories 1G, 1/2G or 2G Ex Certification EEx ia IIC T6 <b>Conformity specifications</b> Operating voltage Ui 30 V Short circuit rating Ii 131 mA Power limitation Pi 983 mW Ambient temperature -50...+46 °C (-58...+114.8 °F) (dependent on categories) Internal capacity Ci negligible Internal inductivity Li ≤5 µH

### 4. Materials

#### 4.1. Chemical Resistance Chart – 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.

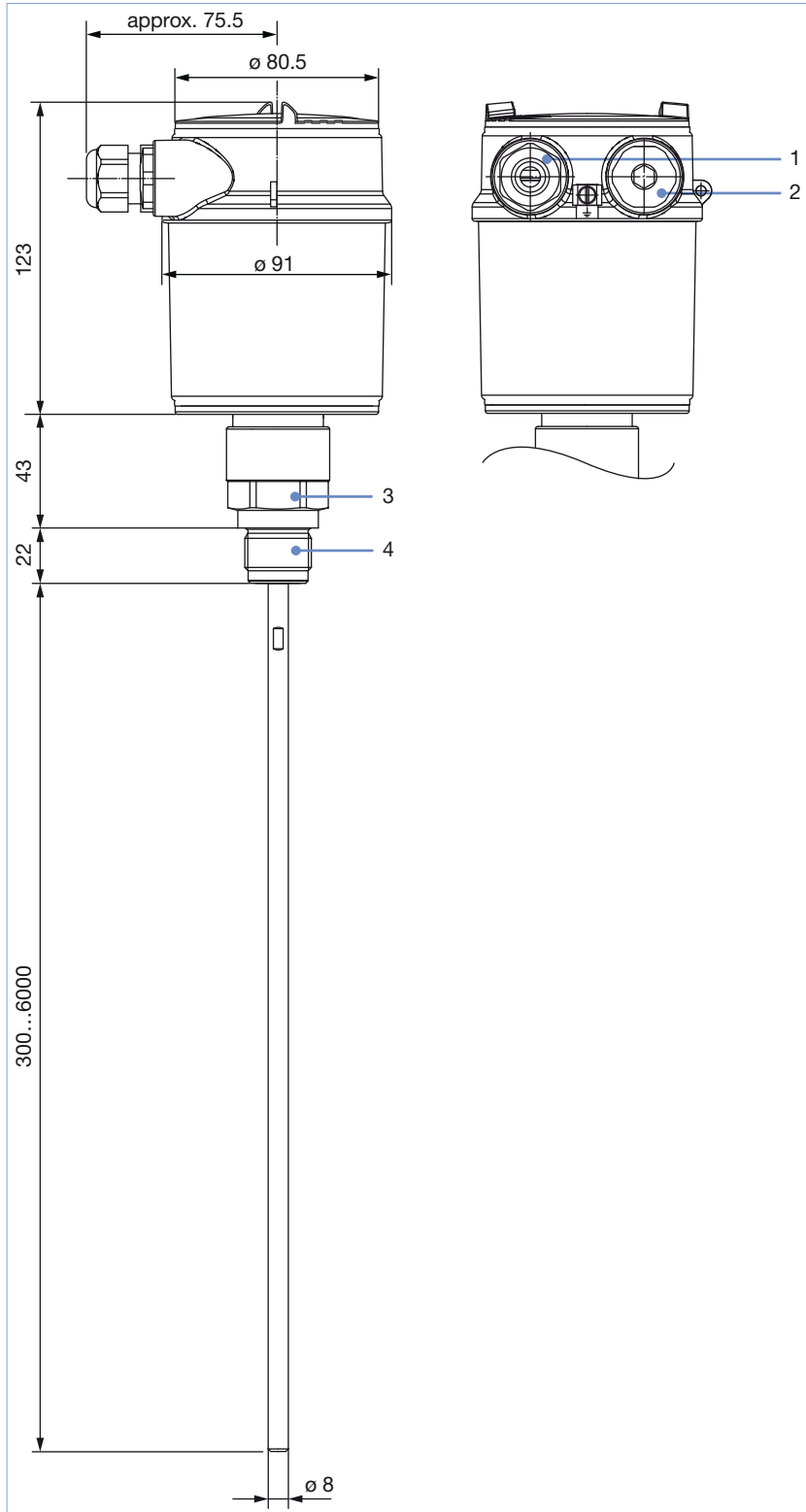
[Start Chemical Resistance Check](#)

## 5. Dimensions

### 5.1. Rod version

**Note:**

Specifications in mm



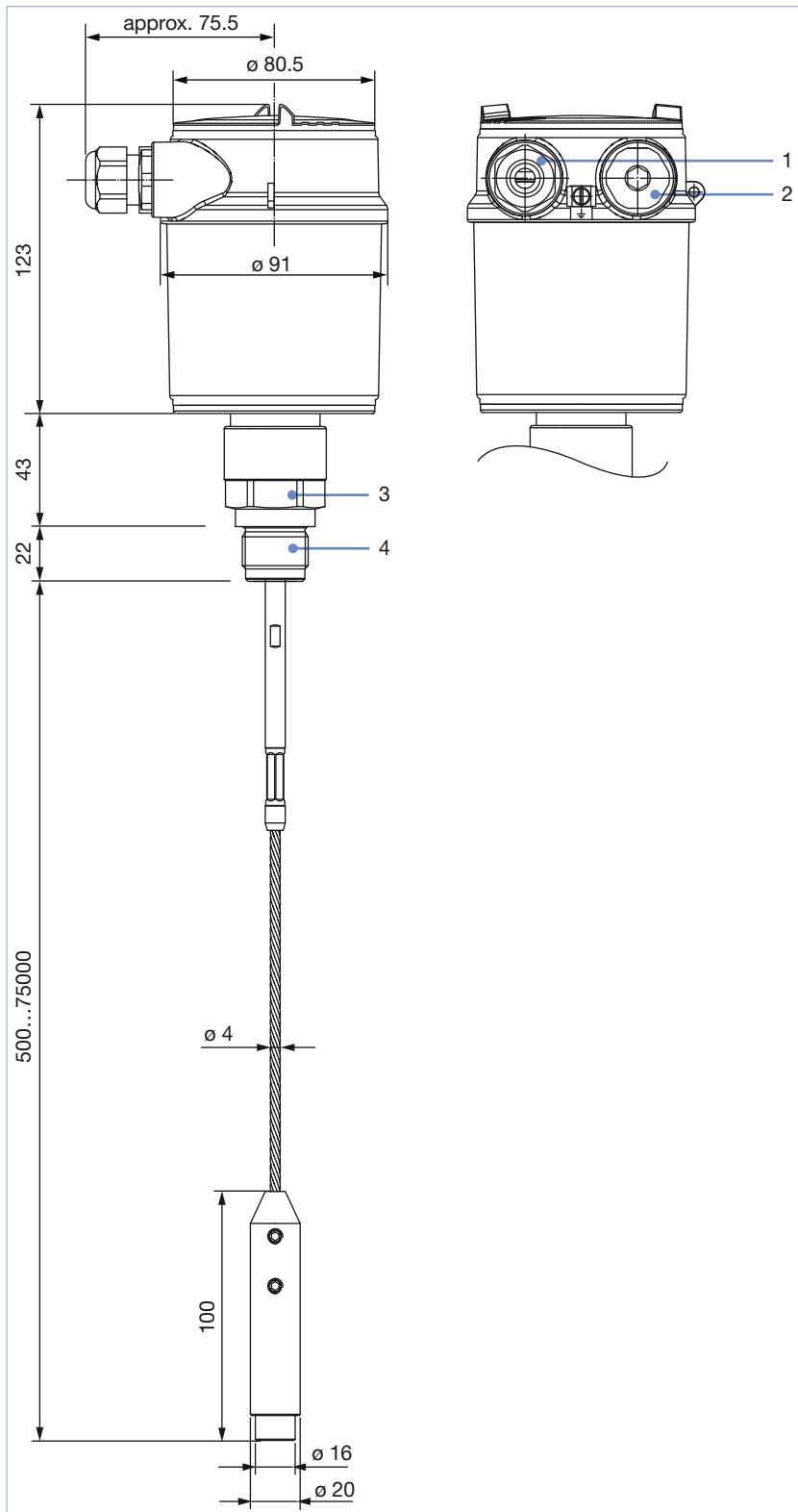
No.	Element
1	Cable gland M20 × 1.5
2	Blind plug M20 × 1.5
3	A/F36 for G or NPT ¾ A/F41 for G or NPT 1
4	G or NPT ¾ G or NPT ¾



5.2. Cable version with gravity weight

Note:

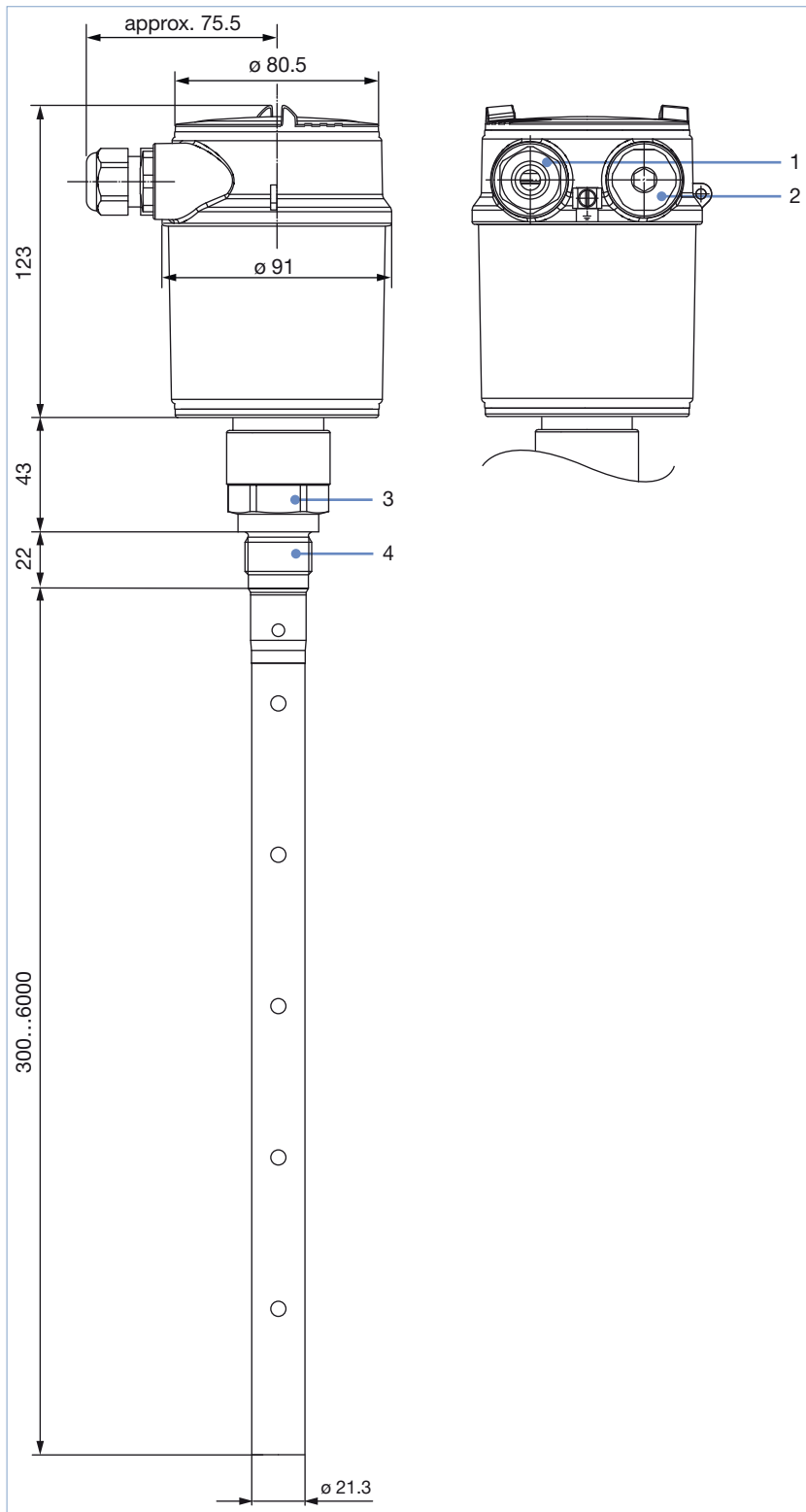
Specifications in mm



No.	Element
1	Cable gland M20 × 1.5
2	Blind plug M20 × 1.5
3	A/F36 for G or NPT ¾ A/F41 for G or NPT 1
4	G or NPT ¾ G or NPT ¾

5.3. Coaxial version

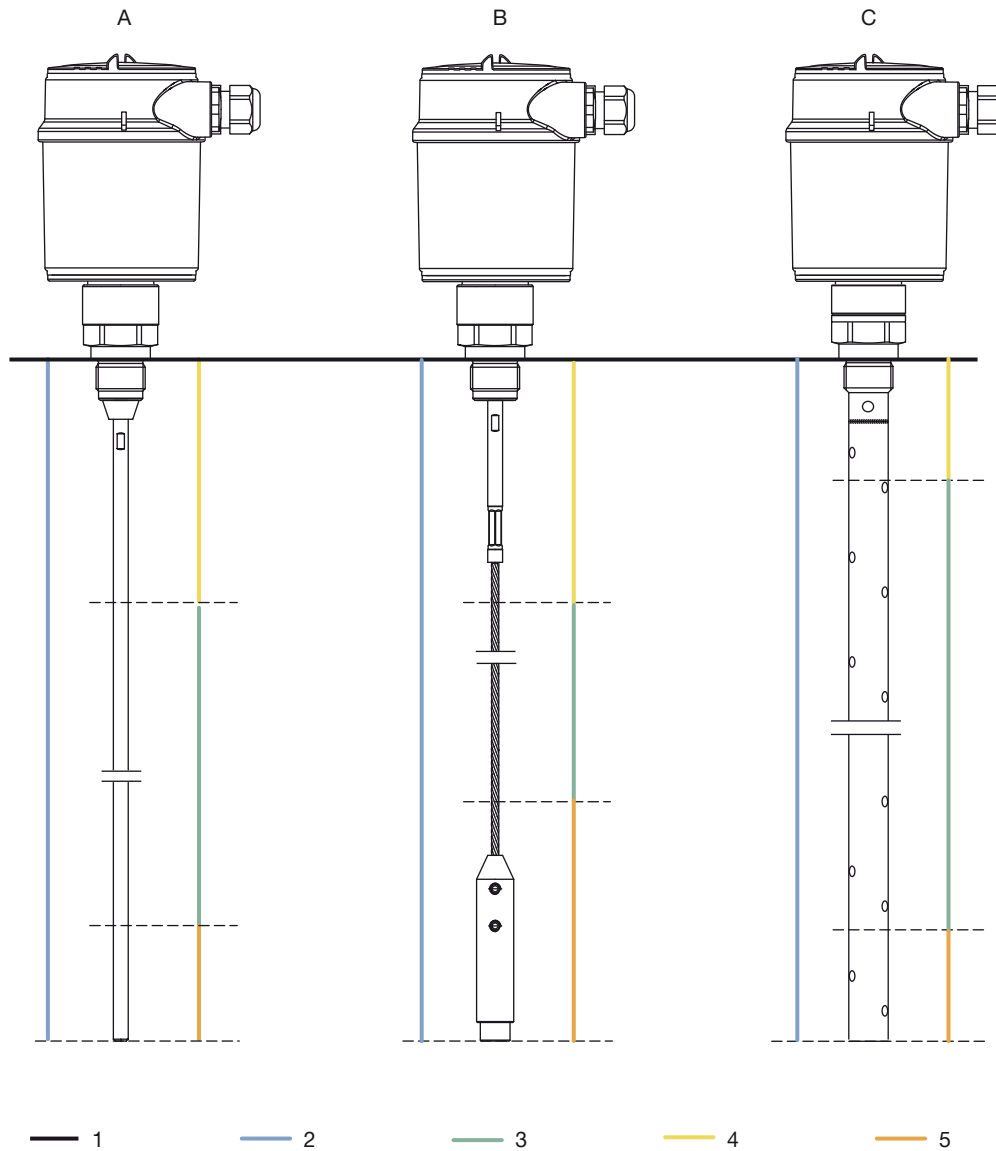
**Note:**  
Specifications in mm



No.	Element
1	Cable gland M20 x 1.5
2	Blind plug M20 x 1.5
3	A/F36 for G or NPT ¼ A/F41 for G or NPT 1
4	G or NPT ¼ G or NPT ¼

## 6. Performance specifications

### 6.1. Measuring range and block distance diagram



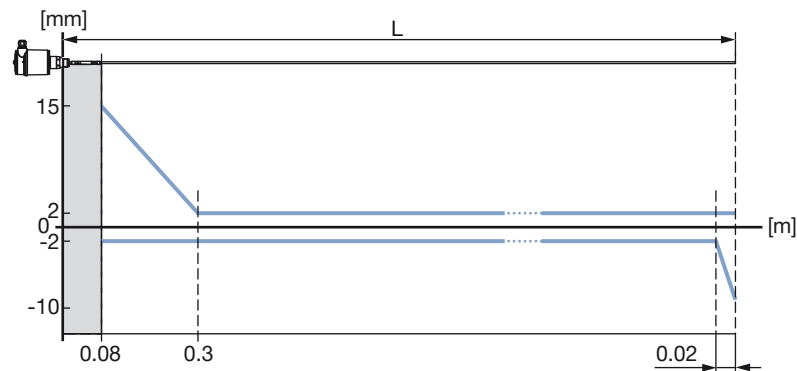
Range length				
No.	Description	A: Rod version	B: Cable version	C: Coaxial version
1	Reference plane	–	–	–
2	Measuring probe length	0.3...6 m	0.5...75 m	0.3...6 m
3	Measurement range	in water: 0.08...6 m in oil: 0.15...5.95 m	in water: 0.08...75 m in oil: 0.15...74.85 m	in water: 0.03...6 m in oil: 0.10...5.95 m
4	Upper block distance	in water: 0.08 m in oil: 0.15 m	in water: 0.08 m in oil: 0.15 m	in water: 0.03 m in oil: 0.10 m
5	Lower block distance	in water: 0 m in oil: 0.05 m	in water: 0 m in oil: 0.15 m	in water: 0 m in oil: 0.05 m

### 6.2. Measurement deviation diagram

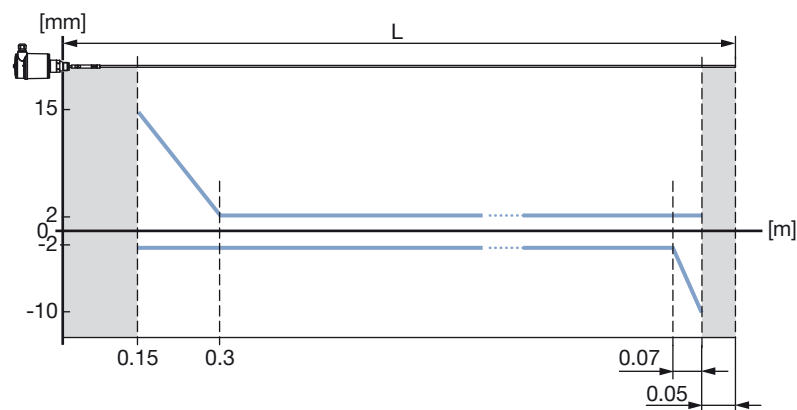
**Note:**

- The block 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.

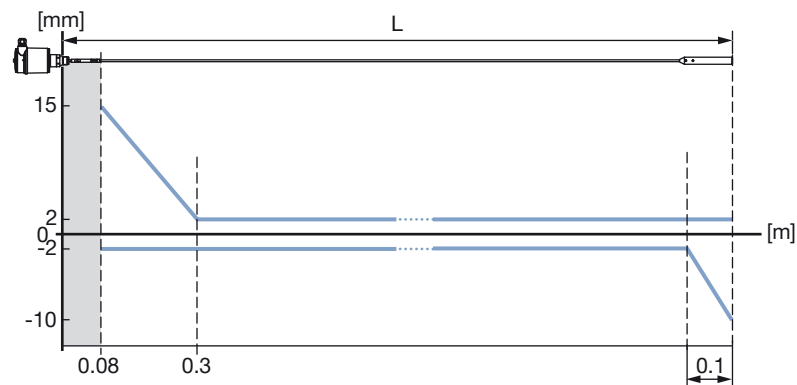
**Rod probe version in water**



**Rod probe version in oil**

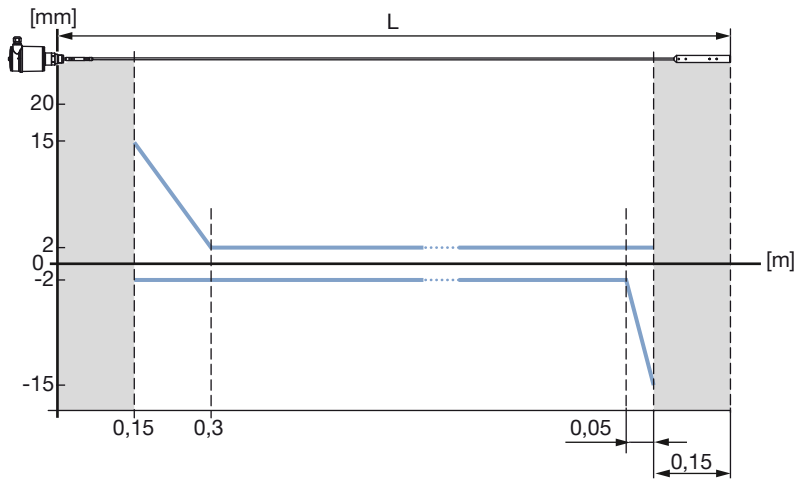


**Cable probe version in water**

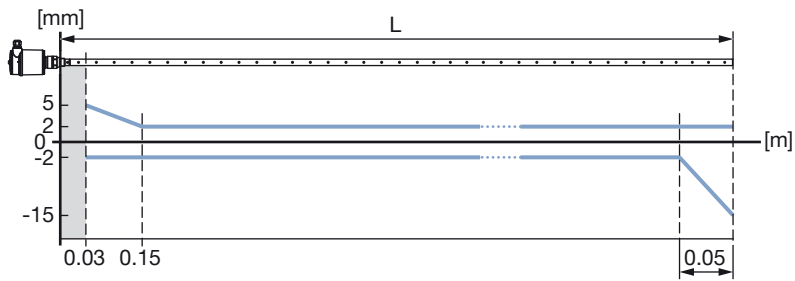


DTS 1000244851 EN Version: G Status: RL (released | freigegeben | validé) printed: 11.04.2019

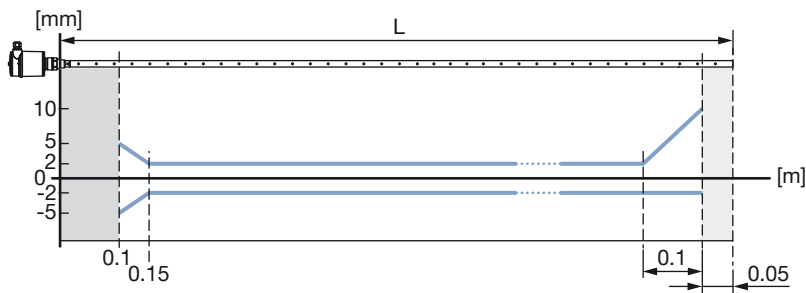
Cable probe version in oil



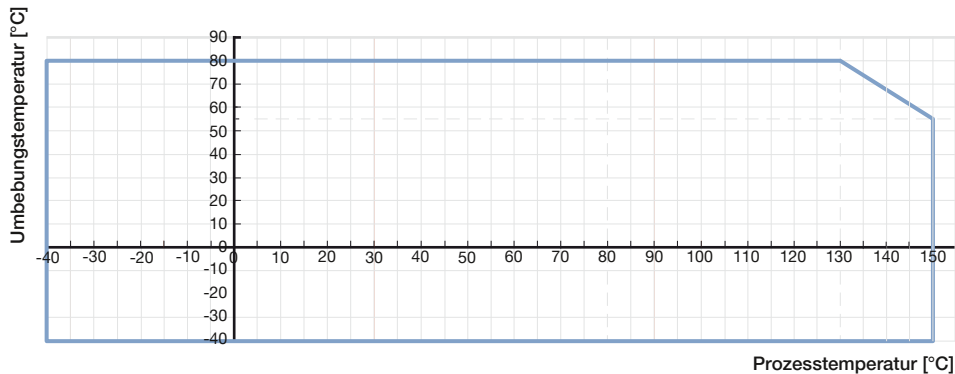
Coaxial probe version in water



Coaxial probe version in oil



### 6.3. Temperature derating diagram



## 7. Product operation

### 7.1. 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 valuated by the instrument and outputted as distance. Time consuming adjustment with medium is not necessary. The instruments are preset to the ordered probe length.

The shortenable cable, rod and coaxial versions can be adapted individually to the local requirements.

### 7.2. Product operation notes


#### Note:

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™/8188-DTM.

#### Set up with display/configuration module


Display/configuration module	Description
	<p>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.</p>

Set up with PACTware™/DTM and HART communication

Assembly	Description								
	<p>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 <a href="http://www.burkert.com">www.burkert.com</a> ▶.</p> <p><b>Connecting the PC via HART</b></p> <table border="1"> <thead> <tr> <th style="background-color: #d9e1f2;">No.</th> <th style="background-color: #d9e1f2;">Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Measuring device Type 8188</td> </tr> <tr> <td>2</td> <td>HART-USB Modem</td> </tr> <tr> <td>3</td> <td>Resistance 250 Ω</td> </tr> </tbody> </table> <p>Necessary components:</p> <ul style="list-style-type: none"> <li>• Measuring device Type 8188</li> <li>• PC with PACTware™ and suitable Bürkert DTM</li> <li>• HART-USB Modem</li> <li>• Resistance approx. 250 Ω</li> <li>• Power supply unit</li> </ul>	No.	Description	1	Measuring device Type 8188	2	HART-USB Modem	3	Resistance 250 Ω
No.	Description								
1	Measuring device Type 8188								
2	HART-USB Modem								
3	Resistance 250 Ω								

## 8. Ordering information

### 8.1. Bürkert eShop – Easy ordering and quick delivery

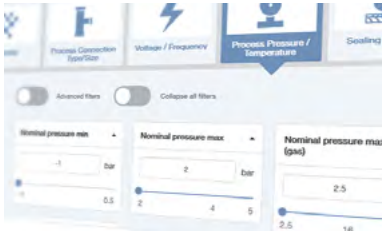


**Bürkert eShop – Easy ordering and fast delivery**

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

### 8.2. 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





### 8.3. Ordering chart

**Note:**





All following versions are supplied with display/configuration module.

Description	Operating voltage	Output	Probe	Length	Electrical connection	Article no.
<b>Standard version</b>						
G 3/4 mounting thread, PN6, temp. max. 80 °C	9.6...35 V DC	4...20 mA/HART (2 wires)	Rod	1 m	Cable gland M20 × 1.5	565800 
				2 m	Cable gland M20 × 1.5	565804 
			Cable	5 m	Cable gland M20 × 1.5	565812 
				10 m	Cable gland M20 × 1.5	565816 
			Coaxial	1 m	Cable gland M20 × 1.5	565823 
				2 m	Cable gland M20 × 1.5	565824 
G 1 mounting thread, PN40, temp. max. 150 °C	9.6...35 V DC	4...20 mA/HART (2 wires)	Rod	1 m	Cable gland M20 × 1.5	565802 
				2 m	Cable gland M20 × 1.5	565806 
			Cable	5 m	Cable gland M20 × 1.5	565814 
				10 m	Cable gland M20 × 1.5	565818 
			Coaxial	1 m	Cable gland M20 × 1.5	565825 
				2 m	Cable gland M20 × 1.5	565826 
NPT 3/4 mounting thread, PN6, temp. max. 80 °C	9.6...35 V DC	4...20 mA/HART (2 wires)	Rod	1 m	Cable gland M20 × 1.5	565801 
				2 m	Cable gland M20 × 1.5	565805 
			Cable	5 m	Cable gland M20 × 1.5	565813 
				10 m	Cable gland M20 × 1.5	565817 
			Coaxial	1 m	Cable gland M20 × 1.5	565827 
				2 m	Cable gland M20 × 1.5	565828 
NPT 1 mounting thread, PN40, temp. max. 150 °C	9.6...35 V DC	4...20 mA/HART (2 wires)	Rod	1 m	Cable gland M20 × 1.5	565803 
				2 m	Cable gland M20 × 1.5	565807 
			Cable	5 m	Cable gland M20 × 1.5	565815 
				10 m	Cable gland M20 × 1.5	565819 
			Coaxial	1 m	Cable gland M20 × 1.5	565829 
				2 m	Cable gland M20 × 1.5	565830 
<b>Ex version - ATEX certification</b>						
G 3/4 mounting thread, PN6, temp. max. 80 °C	9.6...30 V DC	4...20 mA/HART (2 wires)	Rod	1 m	Cable gland M20 × 1.5	565808 
				2 m	Cable gland M20 × 1.5	565810 
			Cable	5 m	Cable gland M20 × 1.5	565820 
				Coaxial	1 m	Cable gland M20 × 1.5
			2 m		Cable gland M20 × 1.5	565832 
			G 1 mounting thread, PN40, temp. max. 150 °C	9.6...30 V DC	4...20 mA/HART (2 wires)	Rod
2 m	Cable gland M20 × 1.5	565811 				
Cable	5 m	Cable gland M20 × 1.5				565821 
	Coaxial	1 m				Cable gland M20 × 1.5
2 m		Cable gland M20 × 1.5				565834 
<b>Ex version - IECEx certification</b>						
NPT 3/4 mounting thread, PN6, temp. max. 80 °C	9.6...30 V DC	4...20 mA/HART (2 wires)	Rod	1 m	Cable gland M20 × 1.5	565839 
				2 m	Cable gland M20 × 1.5	565840 
			Cable	5 m	Cable gland M20 × 1.5	565841 
				Coaxial	1 m	Cable gland M20 × 1.5
			2 m		Cable gland M20 × 1.5	565836 
			NPT 1 mounting thread, PN40, temp. max. 150 °C	9.6...30 V DC	4...20 mA/HART (2 wires)	Rod
2 m	Cable gland M20 × 1.5	565843 				
Cable	5 m	Cable gland M20 × 1.5				565844 
	Coaxial	1 m				Cable gland M20 × 1.5
2 m		Cable gland M20 × 1.5				565838 



Further versions on request	
 <b>Material</b> e.g. FFKM, PFA, Alloy C22 (2.4602)	 <b>Temperature</b> e.g. -40...+200 °C
 <b>Process connection</b> e.g. Thread G or NPT ½ (PN40 ,150 °C), 1½ Flange DN25, DN40, DN50, DN80, DN100, DN150 Flange 1", 1 ½", 2", 3", 4", 6"	 <b>Additional</b> With display

#### 8.4. Ordering chart accessories

Description	Article no.
Set with 2 reductions M20 x 1.5/NPT ½ + 2 neoprene flat seals for cable gland + 2 screw-plugs M20 x 1.5	551782 
Hart-USB Modem	560177 
Set with a display/configuration module, a transparent cover and a seal ring	559279 
Set with a transparent cover and a seal ring	561006 

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