



**Ex-Probe** | Device category 2G and 2D

**Ex-Device category 2G**  
Installation in Zone 1 (gas)

**Ex-Device category 2D**  
Installation in Zone 21 (dust)

Extended temperature range  
up to 120 °C



Design	G1/2													
<b>Dimensions</b>														
<b>Detection range</b> [cm/s]	water 1...100 / oil 3...200													
<b>Sensor length L</b> [mm]	48	80	110	140										
<b>Connection</b>	fixed cable	fixed cable	fixed cable	fixed cable										
<b>ID-No.</b>	P11198	P11200	P11201	P11202										
<b>Type</b>	ST 110 KH	ST 110 KH-L80	ST 110 KH-L110	ST 110 KH-L140										
<b>Ex area of use</b>	Gas: Zone 1 / Dust: Zone 21													
<b>Certificate No.</b>	TÜV 97 ATEX 1218													
<b>Ex marking</b>	Gas: $\text{Ex}$ II 2 G Ex ib IIC T6 Gb Dust: $\text{Ex}$ II 2 D Ex ib IIIC T125 °C Db													
<b>Ambient temperature and medium temperature</b> [°C]	Gas: T6: +10 ≤ Ta ≤ +40 T5: +10 ≤ Ta ≤ +55 T4: +10 ≤ Ta ≤ +90 T3: +10 ≤ Ta ≤ +120 Dust: -20 ≤ Ta ≤ +85													
<b>Maximum values</b>	U <sub>i</sub> = 13.65 V / I <sub>i</sub> = 200 mA / P <sub>i</sub> = 0.69 W / C <sub>i</sub> = 0.27 nF / L <sub>i</sub> = 1.30 µH													
<b>Start-up time typ.</b> [s]	8 (2...18)													
<b>Reaction time typ.</b> [s]	2 (1...13)													
<b>Compressive strength</b> [bar]	60													
<b>Housing material</b>	AISI 316 Ti • different materials on request													
<b>Protection</b> [EN 60529]	IP 67													
<b>Connection</b>	2 m FEP-cable 4x0.25 mm <sup>2</sup>													
<table border="1" style="margin: auto;"> <tr> <td rowspan="4" style="padding: 5px;">Messfühler Probe</td> <td style="padding: 2px 5px;">3 BU</td> <td style="padding: 2px 5px;">8</td> <td rowspan="4" style="padding: 5px;">SZAb</td> </tr> <tr> <td style="padding: 2px 5px;">1 BN</td> <td style="padding: 2px 5px;">7</td> </tr> <tr> <td style="padding: 2px 5px;">2 WH</td> <td style="padding: 2px 5px;">6</td> </tr> <tr> <td style="padding: 2px 5px;">4 BK</td> <td style="padding: 2px 5px;">5</td> </tr> </table>					Messfühler Probe	3 BU	8	SZAb	1 BN	7	2 WH	6	4 BK	5
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(probes with cable length > 2 m are available on request)														
<b>Note:</b>	for the connection to amplifier SZAb..., page 1.104-1.105													