

## Technical data T Temperature measuring probe in the valve stem BA 710

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Sensor material: Pallaplat  
pos. branch made of platinum-rhodium  
neg. branch made of gold-palladium-platinum

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Resistance of pallaplat: 30  $\Omega$ /m

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Resistance of the compensating line: 0,33  $\Omega$ /m

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min/max temperature  
in the terminal box: - 40/+85 °C

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min/max operating temperature: -25/+200 °C

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Measuring variance: max.  $\pm$  1,5 °C

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### Electrical data if used in potentially explosive atmospheres:

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Required type of protection for  
category 1/2 equipment Ex ia IIB

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Power and signal circuits: For connection to certified, intrinsically safe electrical circuit only. The following maximum values apply to the measuring circuits of probes on a common probe carrier:  
 $U_i = 30V$   
 $\Sigma I_i = 100mA$   
 $P_i = 750mW$   
 $L_i$  (probe) negligible  
 $C_i$  (probe) negligible  
The maximum allowable inductance of all inductors in the supply circuits is 11 mH.  
The maximum allowable capacitance of all capacitors in the supply circuits is 180 nF.

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EC type examination: PTB 06 ATEX 2049 X

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Defining the standard

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