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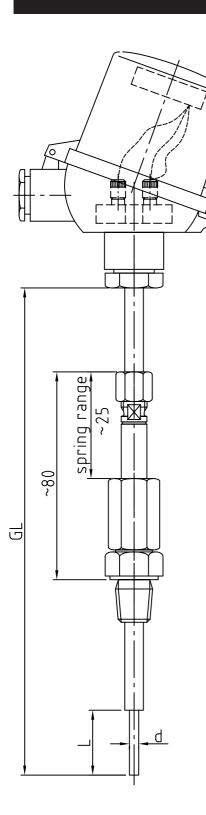
Fon (+49) 0 22 42-8703-0 Fax (+49) 0 22 42-8703-20

http://www.tematec.dee-mail: team@tematec.de



Data Sheet WTEX 7108

Page 1/4



Resistance Thermometer ATEX II2G Ex ia IICT4 (1xPt100) Ex ib IICT4 (2xPt100), Ex ia IICT6 (1xPt100+Transmitter) with terminal head Form BUZ / BUZ-H

These Resistance Thermometers can be used for measuring the temperature of explosion-endangered areas (Category 2G by RL 94/9/EG) - explanation see page 4/4.

They are designed for applications where combustible environments like combustible gases, steams or fogs are permanently or temporarily present.

The connection head without transmitter is suitable for environments with a temperature of up to 100° C (incl. transmitter up to 85°C). Additional designs other than Model BUZ include types with a BUZ-H head.

The protective tubes are normally made of 1.4571 stainless steel but other protective tube materials or coatings can be delivered on request.

The measuring insert contains as standard a Pt100-sensor according to DIN EN 60751, Class A in a 2-wire circuit (3-wire or 4-wire circuit for version with transmitter).

Connection is also possible in a 2-wire circuit or a 4-wire circuit (see ordering key).

- temperature range -40...+ 150°C
- protective tubes made of 1.4571
- insertion length individually configurable
- Single- or Double-Resistance-Thermometer
- spring screw connection = springily with defined pressing force or compression fitting normally tightening

available with the following EX-Transducer:

- analog
- digital programmable
- with Profibus-PA-protocol
- HART-protocol
- according to customer-guidelines
- More technical data are listed in the manuals and security advices.



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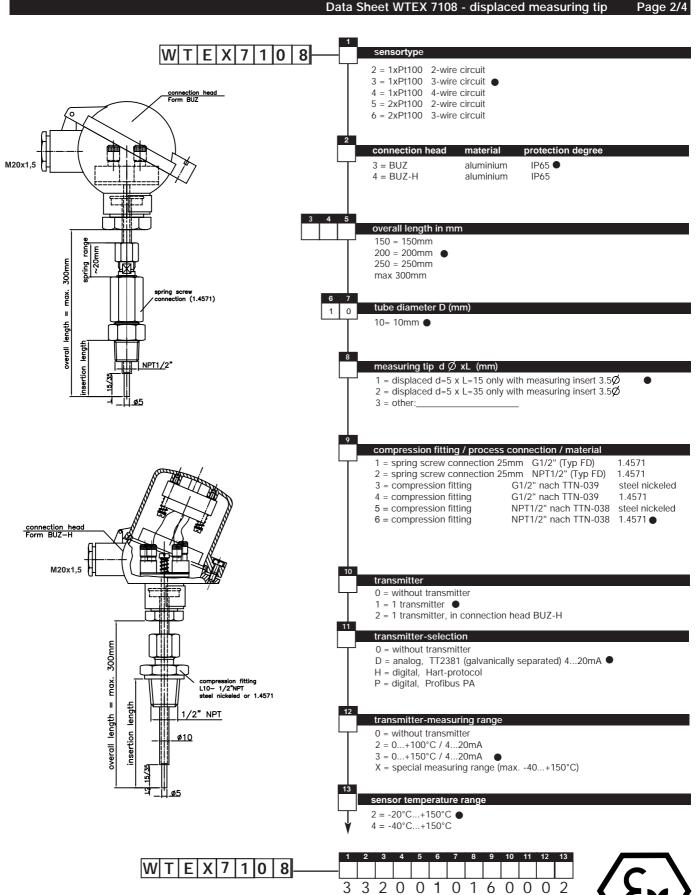
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Temperature Technology



ordering example

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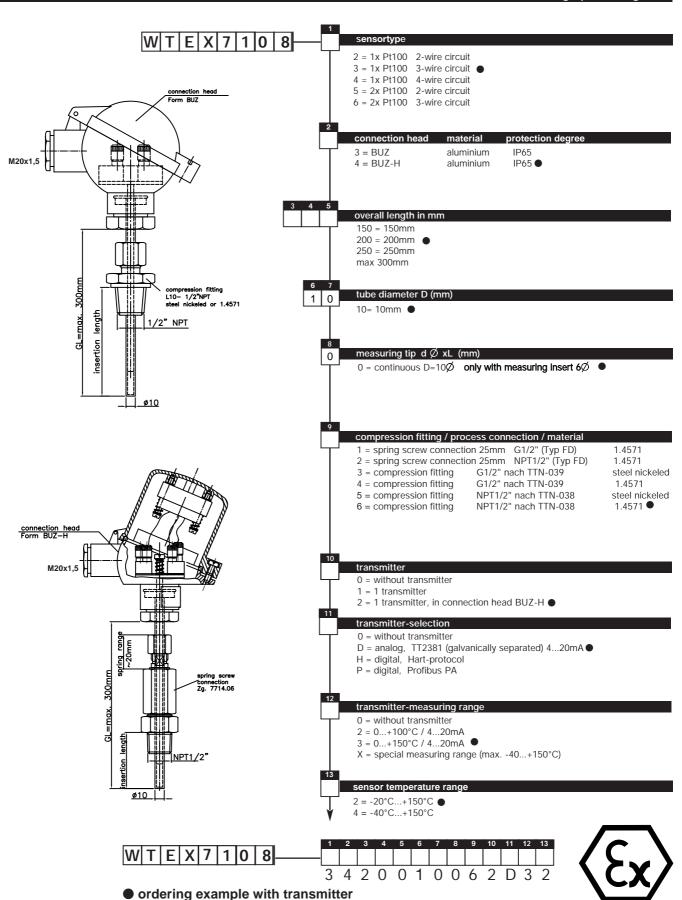
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Fon (+49) 0 22 42-87 03-0 Fax (+49) 0 22 42-87 03-20 53773 Hennef

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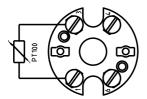


Data Sheet WTEX 7108 - continuous measuring tip

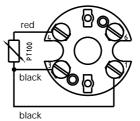


Resistance-Thermometer Electrical Connection

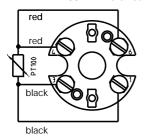
1xPt100-2 wire circuit



1xPt100-3 wire circuit



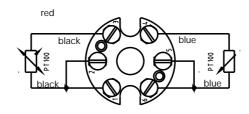
1xPt100- 4 wire circuit



2xPt100-2 wire circuit



2xPt100-3 wire circuit



marking according to guideline 94/9/EG:	C€Œx	<u>II 2 G</u>
- group of devices II		
- endangerment: category 2		
- for combustible atmosphere because of gas fogs or steams	ses,	

Allocation of the danger zone mounting-place to the category of the explosion-proofed devices and sensors:

danger zone to mounting place		category according to guideline 94/9/EG
endangerment through gases, fogs or steams	Zone 0	1G
endangerment through gases, fogs or steams	Zone 1	2G
endangerment through gases, fogs or steams	Zone 2	3G

