

# Temperature sensors for Hazardous Areas

FLAMEPROOF AND INTRINSICALLY SAFE TEMPERATURE SENSORS

Catalogue | Edition 2023

#### **I TEMPERATURE SENSOR**

### Type XDI-T..WS

Sensor consists of an exchangeable measuring insert, welded thermowell with flanged process connection and field mounted temperature transmitter PR7501.

Measuring insert represents the replaceable element of the complete sensor which reduces time and costs of maintenance of the measuring apparatus installed in the object. Spring fixation of the measuring insert provides perfect pressure to the bottom of the protecting tube, reduces time of reaction to changes of temperature and increases accuracy of measurement as well as reduces natural vibration thus mechanical and electrical defects can be avoided.

#### **TECHNICAL DATA**

#### Description

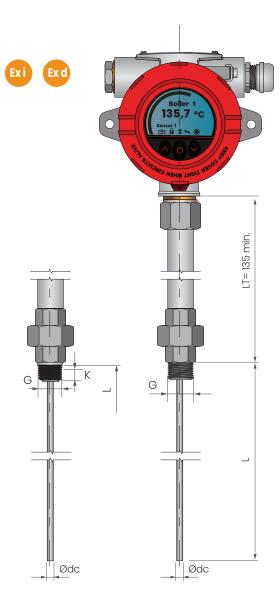
- •flameproof and intrinsically safe for gas G and dust D atmospheres
- · single and double RTD and TC
- exchangeable mineral insulated measuring insert
- connection head:clluminium, IP68, ATEX II 2 GD (see technical information)
  process connection: G1/2", M14x1.5 or M18x1.5
  cable gland M20x1.5, II 2G Ex db IIC Gb, II 2D Ex tb IIIC Db; IP68
- (cable dia. Ø3-Ø8mm)\*
- •output signal: 4..20mA with ḤART® ver. 5 and 7 protocol
- ·local display, OPTO keypad (option)

Design temperature range	
-200 +600°C	for Pt100
-40 +800°C	for NiCr-NiAl (K)
-40 +700°C	for Fe-CuNi (J)

Sensing element	
lx or 2xPt100	acc. to EN 60751 class A, B
1x or 2xTC (J, K, N, E, T)	acc. to EN 60584-2 class 1, 2

#### Remarks

\* other parameters on request



#### ATEX Marking:

C€ II 1/2G Ex ia IIC T... Ga/Gb or

CE II 1/2G Ex db IIC T... Ga/Gb or

**C€** II 1/2D Ex ia IIIC T... Da/Db or

C€ II 1/2D Ex ta/tb IIIC T... Da/Db

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