

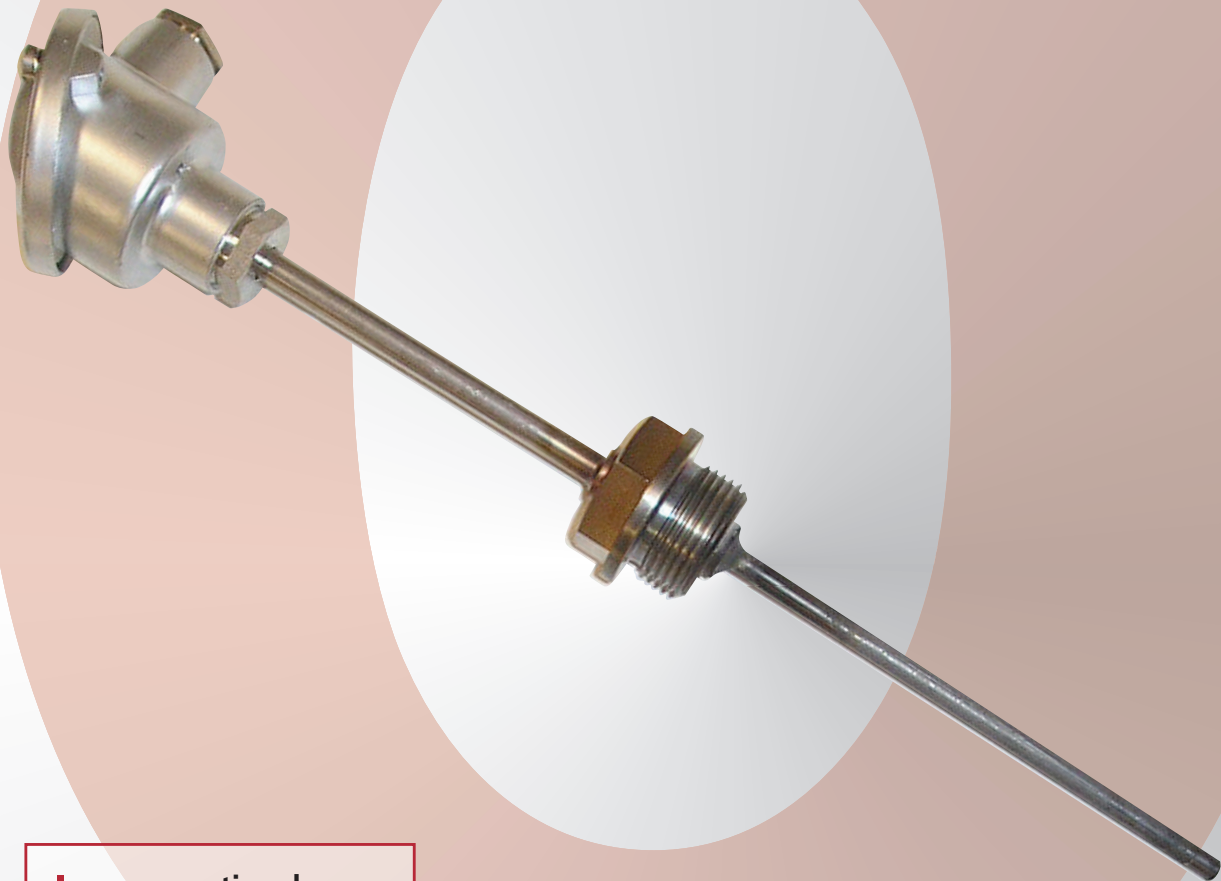
**PROMECON**

we focus on your process

# **McON** temp

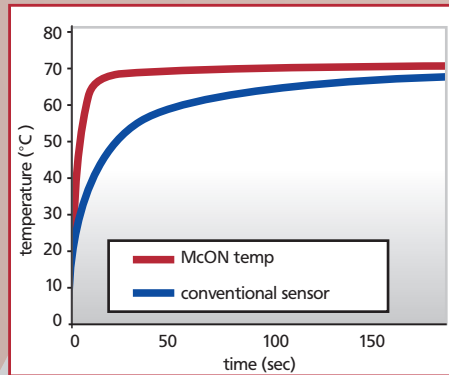
power – cement – smelters

**Fast responding temperature  
measurement on mill classifiers  
without abrasion**



- response time less than 10 seconds
- life time more than 30 months
- fast and simple installation
- highly reliable measurement

# Fast response despite highest wear resistance



Comparison McON temp and conventional sensor

In the past the choice was:

**EITHER**  
fast responding measurement,  
but  
high abrasion,  
short sensor life

**OR**

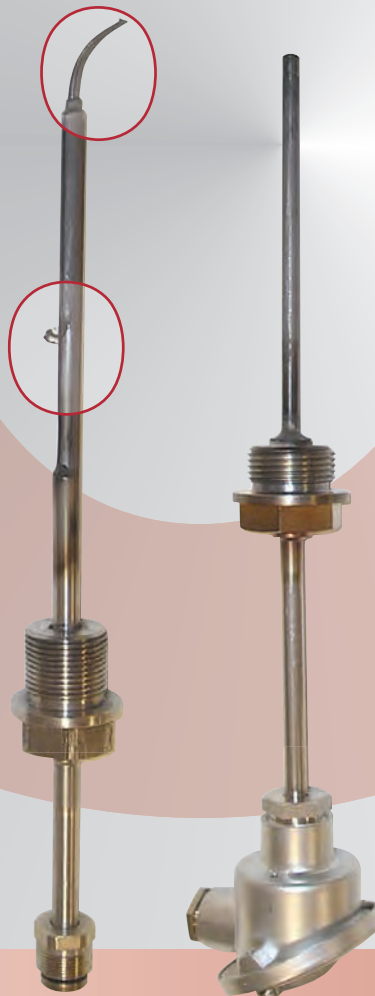
low abrasion  
and long sensor life  
but  
slow response  
temperature measurement

**McON temp gives you:**

Temperature measurement response in seconds (**response time 10 sec.**), hence dynamic mill control possible

**AND**

no significant abrasion. Therefore **sensor life of 30 months in service and more**



*Conventional sensors without wear protection show excessive wear after 6 weeks in service in abrasive media.*

*The sensor McON temp does not show any significant signs of wear even after more than one year in service in abrasive media.*

## Our customers' opinion:

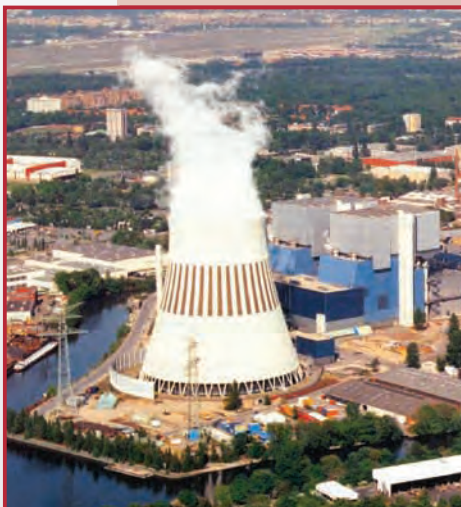
Without a rapid temperature measurement our improved dynamic load control would be unthinkable.

We had to replace the conventional fast response sensors every 6-8 weeks.

The installation is dead simple - just screw in the sensor, connect the cables and that's it.

McON temp has completely resolved our wear and abrasion issues.

We didn't know how fast responding our mills were until we installed McON temp sensors.



### References McON temp:

- | Bewag/Vattenfall Kraftwerk Reuter West, in service since August 2003
- | EnBW Kraftwerk Heilbronn, since February 2004
- | E.ON Kraftwerk Farge, since August 2004
- | E.ON Kraftwerk Scholven, since April 2004
- | E.ON Kraftwerk Knepper, since June 2005

*Bewag, PS Reuter West, Berlin, Germany*

# Technical attributes

## Main characteristics:

Temperature range from -50 to +200 °C (-58 to 392 F)  
 Different measuring inserts available  
 Single or twin  
 resistance thermometers/thermocouples  
 4...20 mA transmitter option

## Technical data:

### Terminal head

Aluminium die-casting, format B DIN 43729  
 Ambient temperature -40 to +100°C (-40 to 212 F)  
 IP54, cable entry M 20x1.5

### Extension tube

Material: stainless steel 1.4571  
 Length: 130 mm

### Process connection

Material: stainless steel 1.4571  
 Thread: various types (G)  
 thread G 1/2"   
 thread G 3/4"   
 thread G 1"   
 thread M 18 x 1.5   
 other (upon request) -----

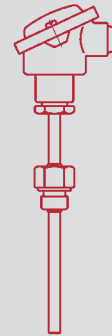
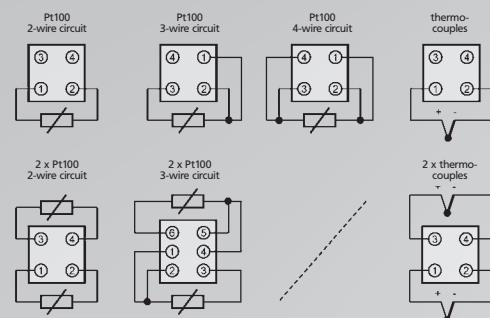
### Protection tube

Material: metal carbide  
 Outer diameter: 6.3 mm (D)  
 Length: various lengths available (EL)  
 160 mm / 6.3"   
 200 mm / 7.9"   
 250 mm / 9.8"   
 300 mm / 11.8"   
 other (upon request) -----

### Response time

t<sub>0,9</sub> approx. 10 seconds

## Connection diagram :



### Measuring insert

Various Pt100 (EN 60751) temperature sensors available:

- Pt100, class B, 2-wire circuit
- Pt100, class B, 3-wire circuit
- Pt100, class B, 4-wire circuit
- 2 x Pt100, class B, 2-wire circuit
- 2 x Pt100, class B, 3-wire circuit
- (Pt500, Pt1000 and analog transmitters 4...20 mA are available other (upon request)

### Various thermocouples available:

- 1 x Fe-CuNi (Fe-Con), "J", EN 60584, class 2
- 1 x Fe-CuNi, (Fe-Con), "L", DIN 43710, class 2
- 1 x NiCr-Ni, "K", EN 60584, class 2
- 1 x NiCr-CuNi, "E", EN 60584, class 2
- 2 x Fe-CuNi (Fe-Con), "J", EN 60584, class 2
- 2 x Fe-CuNi (Fe-Con), "L", DIN 43710, class 2
- 2 x NiCr-Ni (Fe-Con), "K", EN 60584, class 2
- 2 x NiCr-CuNi, "E", EN 60584, class 2
- (analog transmitters 4...20 mA are available) other (upon request)

**For a specific quotation please fill out the data sheet and send via fax to:**

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