PROMECON
we focus on your process

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 ..20mA head-mounting-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

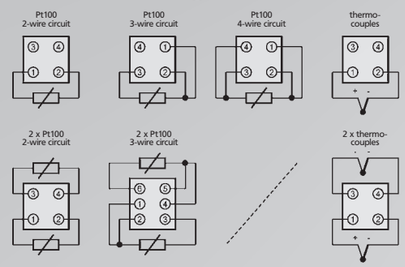
Extension tube
Material: stainless steel 1.4571
Length: 130 mm

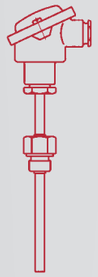
Process connection
Material: stainless steel 1.4571
Thread: various types (G)
thread G ½" ☐
thread G ¾" ☐
thread G 1" ☐
thread M 18 x 1,5 ☐
other (upon request) ---------

Protection tube
Material: metal carbide
Outer diameter: 6,3 mm (D)
Length: various lenghts available (EL)
160 mm / 6.3" ☐
200 mm / 7.9" ☐
250 mm / 9.8" ☐
300 mm / 11.8" ☐
other (upon request) ---------

Response time
$t_{0,9}$ 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 it via fax to:

PROMECON

Fax: +49 (0)39203 512-202

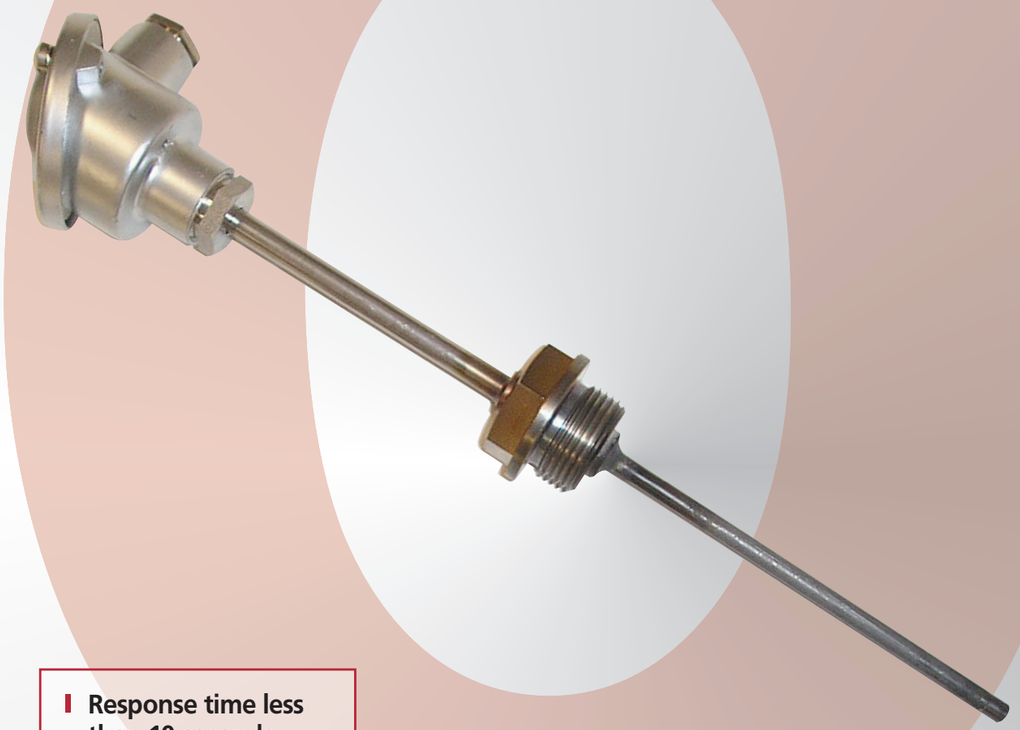
name ----------
company ----------
street ----------
postal code ----------
city ----------
phone ----------
(or company stamp)

Technical Changes Reserved

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**

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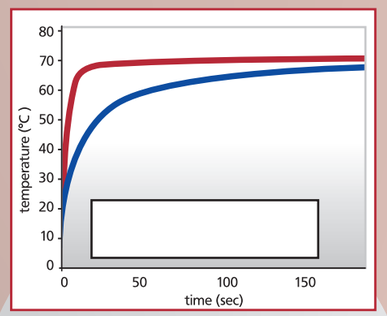
Fast response despite highest wear resistance



Comparison McON Temp and conventional sensor

In the past the choice was:

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

OR

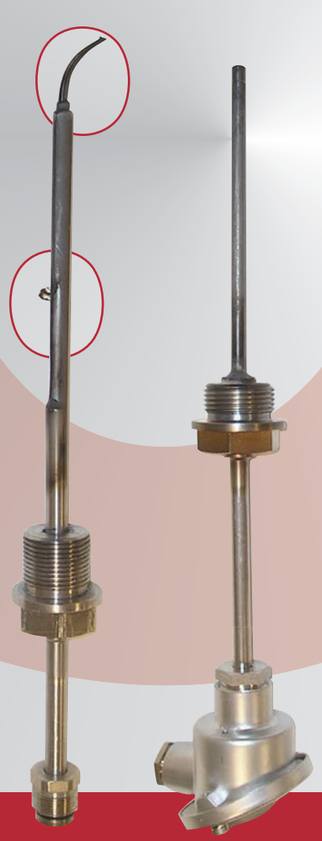
low abrasion and long sensor life
but
slow response temperature measurement.

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:

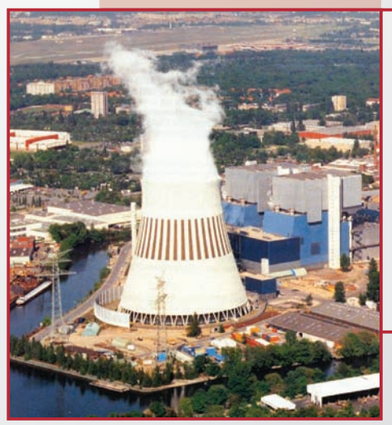
"Without a rapid temperature measurement our improved dynamic load control would be unthinkable."

"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/Vattenfall, PS Reuter West, Berlin, Germany