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 20 x 1,5

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 1/4", 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
- $t_{0.9}$ 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), "J", DIN 43710, class 2
- 1 x NiCr-Ni, "K", EN 60584, class 2
- 1 x NiCr-Ni, "K", DIN 43710, class 2
- 2 x Fe-CuNi (Fe-Con), "J", EN 60584, class 2
- 2 x Fe-CuNi (Fe-Con), "J", DIN 43710, class 2
- 2 x NiCr-Ni (Fe-Con), "K", EN 60584, class 2
- 2 x NiCr-Ni (Fe-Con), "K", DIN 43710, class 2

(a)log 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
**Fast response despite highest wear resistance**

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.

**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