

# Questionnaire for temperature measurement of molten metal

To be able to select the most suitable measurement system for your specific requirements, we kindly ask that you provide us with the following information:

**Important!! Please supply us with a digital photo or video of the pouring process at your facility.**

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## Client Address

Company	Department	Web
P.O. Box	Street	
City Code	City	Country
Contact Person	Tel.	E-mail

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## Location

### Melting plant:

- Runner of blast furnace/cupola furnace       Runner of casting machine       Inside the melting furnace

### Transfer of the molten metal:

- Melting furnace → holding furnace       Holding furnace → transport ladle       Transport ladle → casting ladle

### Casting process/machine:

- Full automatic casting machine  
 with plug control  
 casting ladle → mould
- Half automatic casting machine  
casting ladle → mould
- Manual casting  
casting ladle → mould

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## Pouring stream

Diameter: \_\_\_\_\_ mm

Pouring time:  continuous       discontinuous from \_\_\_\_\_ to \_\_\_\_\_ sec.

Number of moulds per ladle: from \_\_\_\_\_ to \_\_\_\_\_

Shortest time between two castings: \_\_\_\_\_ sec.

Permitted temperature range: from \_\_\_\_\_ to \_\_\_\_\_ °C

Position of the stream:  fix       varied (range \_\_\_\_\_)

Material of the molten metal:  grey cast iron       ductile/  
spheroidal graphite iron       others \_\_\_\_\_

Number of different melts:  per day \_\_\_\_\_       per week \_\_\_\_\_

Are additives added to the molten stream during the pouring?  Yes       No

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## Environment

Distance of mounting possibility to the targeted metal stream: \_\_\_\_\_ mm

Ambient temperature at the pyrometer: \_\_\_\_\_ °C

Is there a formation of smoke or dust between the molten metal and the pyrometer:  Yes       No

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## Specification of the instrument

Type of pyrometer	<input type="checkbox"/> portable	<input type="checkbox"/> stationary		
Sighting system	<input type="checkbox"/> none	<input type="checkbox"/> Through-the-lens	<input type="checkbox"/> Laser spot light	<input type="checkbox"/> Video camera
Output signal	<input type="checkbox"/> 0/4-20 mA	<input type="checkbox"/> Switching output		
Digital interface	<input type="checkbox"/> RS 485	<input type="checkbox"/> USB	<input type="checkbox"/> Profibus	<input type="checkbox"/> IO-Link
	<input type="checkbox"/> other _____			

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## Signal processing

Do you require on-site readout?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Do you require readout at the control room?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Do you require data recording?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Should the measured values be recorded by a central data logger system?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Do you require a warning lamp when the temperature is off the permitted range?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

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## Additional details or description



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