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.

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

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

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

Signal processing

Desired sighting system: ☐ Through-the-lens-sighting ☐ Integrated video camera ☐ Laser

Do you require on-site readout? ☐ Yes ☐ No

Do you require readout at the control room? ☐ Yes ☐ No

Do you require data recording? ☐ Yes ☐ No

Should the measured values be recorded by a central data logger system? ☐ Yes ☐ No

Do you require a switching output when the temperature is off the permitted range? ☐ Yes ☐ No

Send per Fax or Mail to:

Viking Technologies
Fax +1 (248) 564-0857
Goran.Lowback@Viking-Technologies.com

KELLER M.S.R.
KELLER HCW GmbH · Division MSR · Carl-Keller-Straße 2-10 · 49479 Ibbenbüren · Germany
Tel. +49 (0) 5451 850 · Fax +49 (0) 5451 897392 · www.keller-msr.de · info@keller-msr.de