

Алматы (7273)495-231
Ангарск (3955)42-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-42
Белгород (4735)40-23-142
Благовещенск (4162)35-142-07
Брянск (4232)59-03-52
Владивосток (423)249-42-31
Владикавказ (8672)42-90-42
Владимир (4935) 49-43-18
Волгоград (844)278-03-42
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-142

Ижевск (3412)26-03-58
Иваново (4932)77-34-06
Иркутск (395)279-98-46
Казань (843)206-01-42
Калининград (4012)72-03-81
Калуга (4242)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-42
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (4352)50-90-47
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (4219)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-142-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)357-86-73
Ноябрьск (3496)41-32-12
Омск (3812)21-46-40
Орел (4262)44-53-42
Оренбург (4232)37-68-04
Пенза (8412)35-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

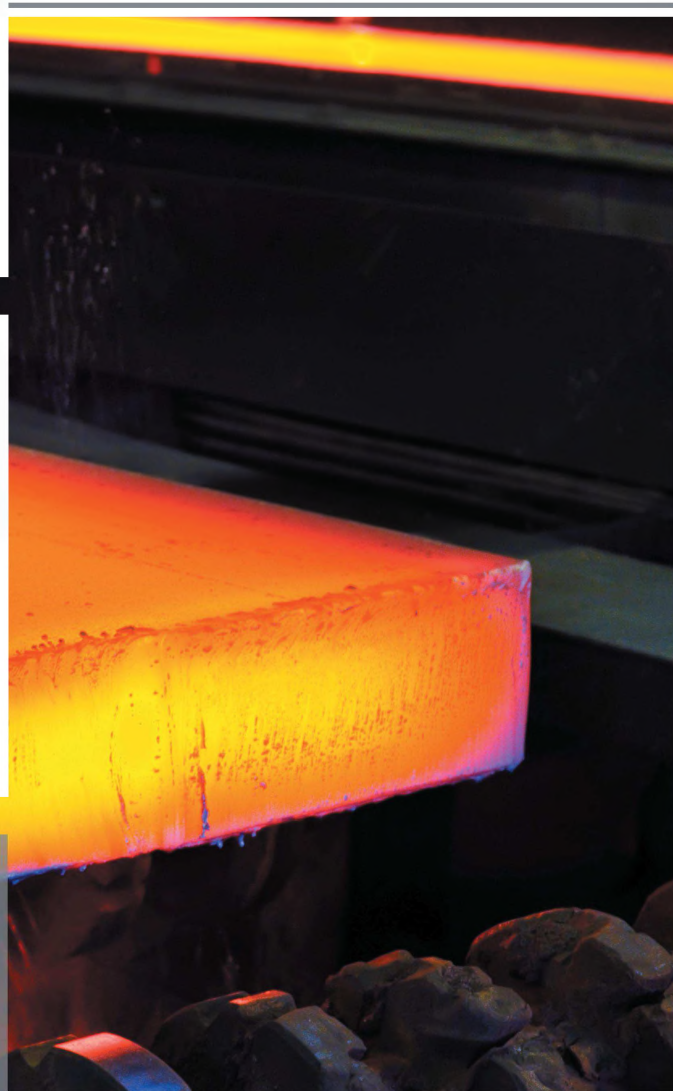
Россия (495)268-04-70

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-142
Самара (846)206-03-16
Саранск (8342)35-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)35-31-93
Симферополь (3652)67-13-56
Смоленск (4212)29-41-42
Сочи (862)242-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)42-95-17
Сургут (3462)77-98-42
Тамбов (4752)50-40-97

Казахстан (772)734-952-31

Тверь (4352)63-31-42
Тольятти (8435)63-91-07
Томск (3835)98-41-53
Тула (4272)33-79-87
Тюмень (3452)66-21-18
Улан-Удэ (3012)59-97-51
Ульяновск (8435)24-23-59
Уфа (347)359-42-12
Хабаровск (4212)92-98-04
Чебоксары (8435)42-53-07
Челябинск (421)202-03-61
Череповец (8202)49-02-142
Чита (3035)38-34-83
Якутск (4112)23-90-97
Ярославль (4422)69-52-93

<https://heraeus.nt-rt.ru> || hsv@nt-rt.ru



CasTemp®

Continuous temperature measurement in liquid steel

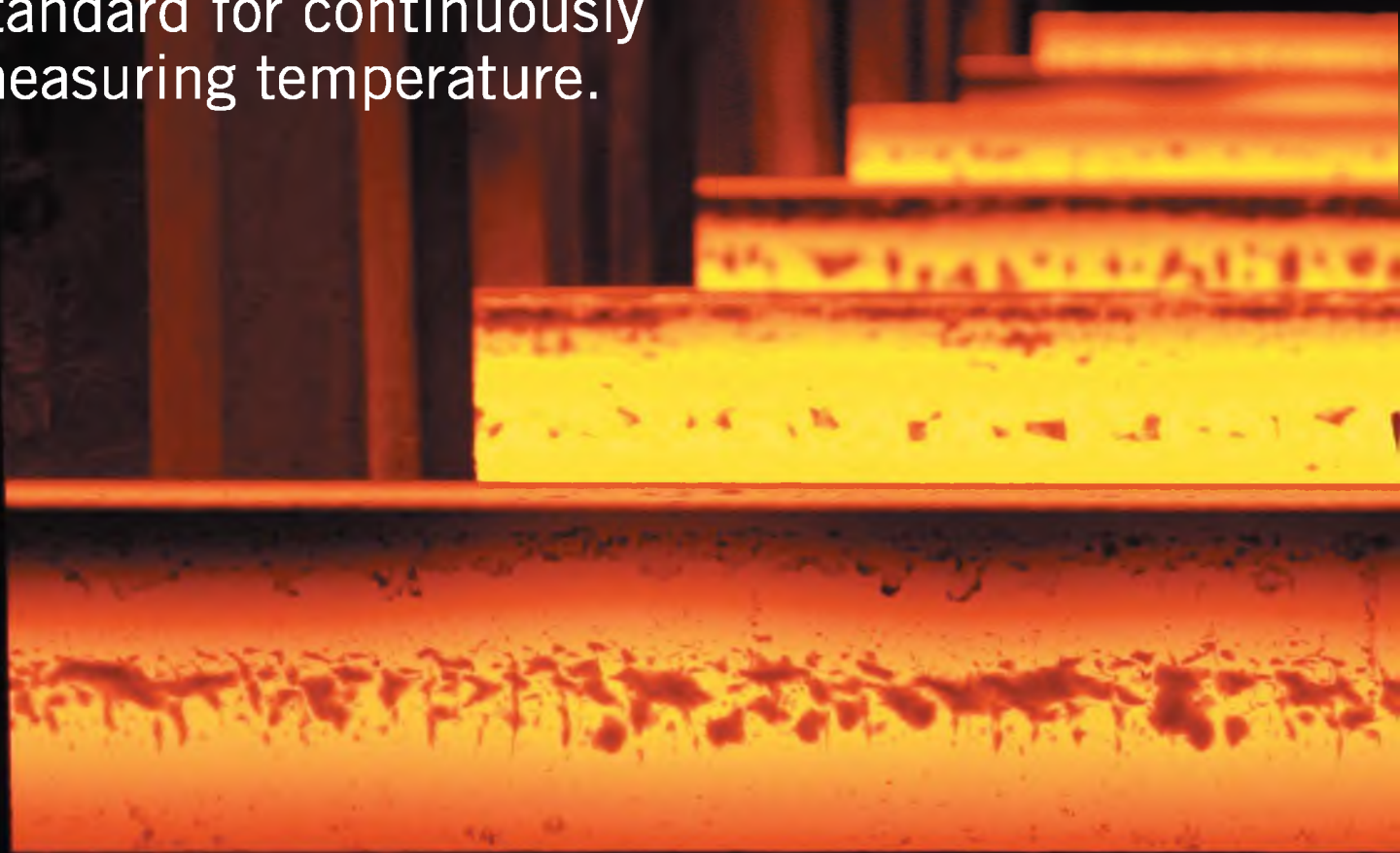
The CasTemp® system is used to safely, reliably, and continuously measure the temperature of liquid steel in the tundish in a continuous casting plant.

The system has been designed to withstand the environment within a steel plant and is the global standard for continuously measuring temperature.

The CasTemp® system gives an accurate temperature measurement throughout the casting sequence and is positioned close to the steel outlet. CasTemp® is a 'fit and forget' system that does not need any handling.

The CasTemp® probe is inserted through the sidewall of the tundish using a system designed to remove the risk of steel leaking. The probe can be used in all types of tundish.

The CasTemp® probe contains a type-B thermocouple housed in a robust refractory sheath, which can withstand thermal shock and gives a fast temperature response.

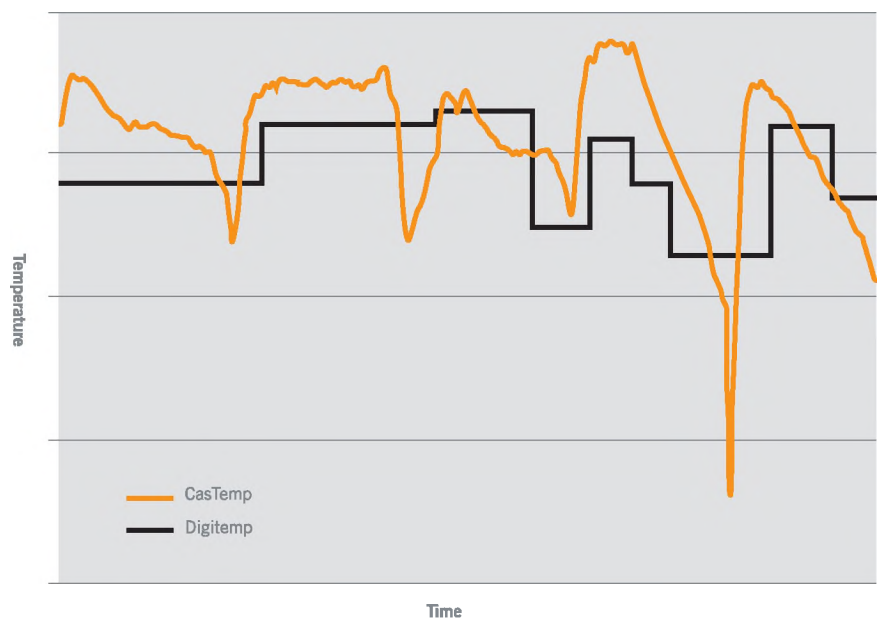


Benefits

- Improved safety by removing the possibility of the operator being exposed to liquid steel
- Continuous temperature readings throughout the whole casting sequence including preheat
- A fast response because the probe is fully submerged in liquid steel
- Improved output by optimising the speed of casting
- Reduced temperature-related breakouts and freezeoffs
- Avoids contact with corrosive slag
- Accurate measurements during ladle changes



The graph shows the difference between spot measurements and continuous measurements given by the CasTemp® probe.



The system

The following shows the essential parts of the CasTemp[®] measurement system.

Well block

Securely holds the probe in the lining of the tundish



Embedding tool

Correctly lines the well block up in the tundish



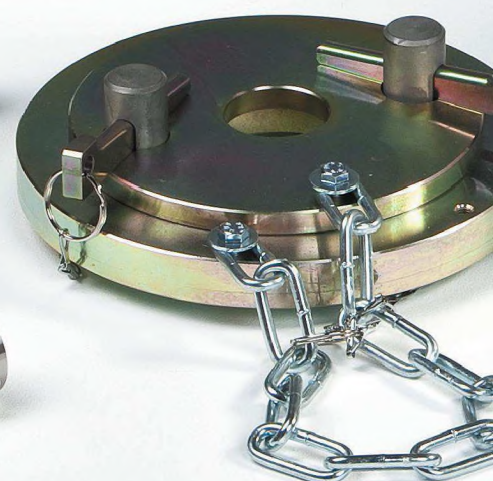
Hot-zone cable

Connects the probe to the instrument



Continuity checker

Verifies that the probe is working



- **Conti-Lab E instrument**
Processes and displays
the measurements



- ▲ **Mortar**
Secures the probe in the block

- ◀ **Retaining system**
Locks the tundish
equipment in place



- ▲ **CasTemp® probe**
Measurement sensor

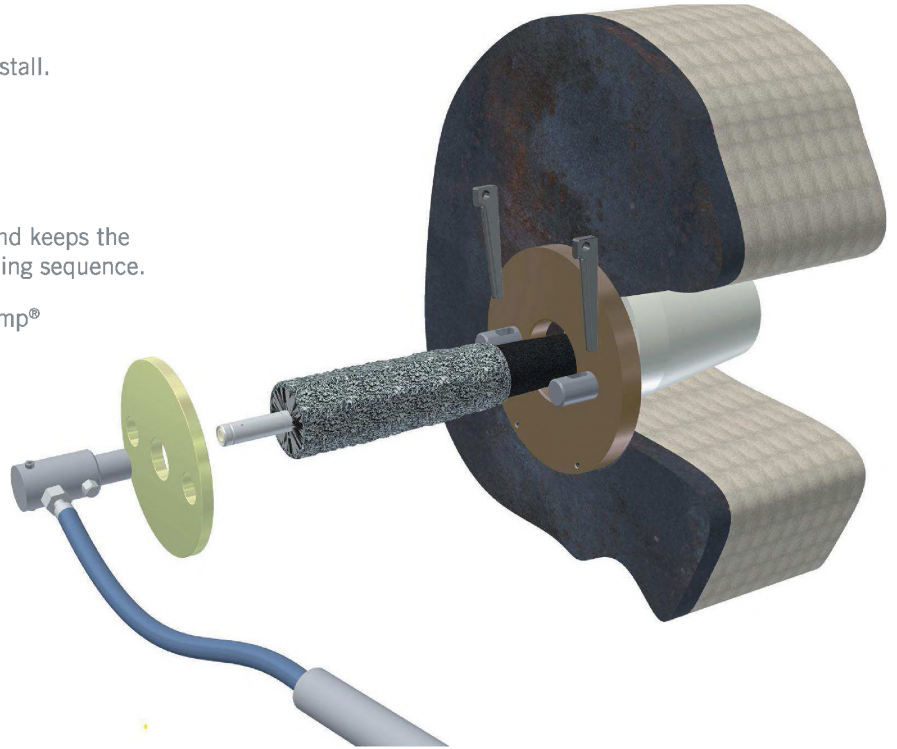
Preparing the system

The CasTemp® system is quick and easy to install. The main steps are:

- welding the retaining plate; and
- fitting the well block.

The CasTemp® retaining system is reusable and keeps the CasTemp® safely in place throughout the casting sequence.

For more detailed information, see the CasTemp® Instruction and Operating Manual.



Using the probe

The main steps of using the CasTemp® probe are:

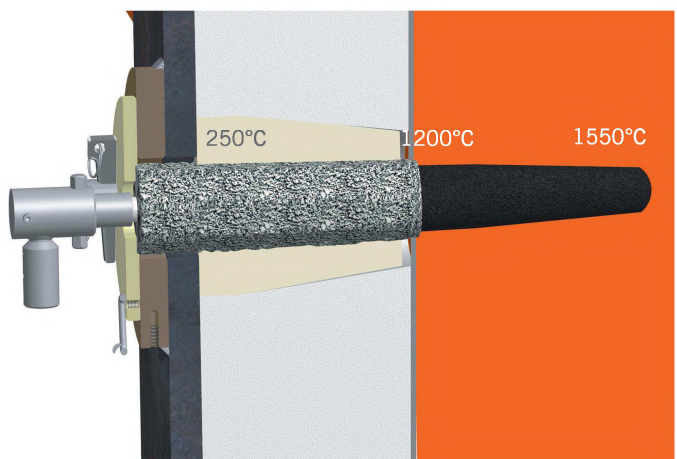
- inserting the probe;
- securing the retaining plate; and
- connecting the hot-zone cable.

Measuring

CasTemp® continuously measures the casting temperature throughout a casting sequence enabling closed-loop caster control. The system is not affected by the level of liquid steel or slag, or the machine being used.

The Conti-Lab E is a robust instrument that can be placed close to the measurement point. The large display makes sure that it can be read at a distance of up to 30 metres.

Conti-Lab E links to the plant computer and has a number of communications options, which are programmable.



Connection system

There are three different types of connection systems, designed to connect the CasTemp® probe to the Conti-Lab E instrument.

- Hot-zone cable using platinum wire in a braided steel hose designed for the harshest conditions
- Hot-zone compensation cable in a fireproof rubber hose designed for most applications
- Cold-zone compensation cable designed to offer fast and economical repair



Алматы (7273)495-231
Ангарск (3955)42-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-42
Белгород (4735)40-23-142
Благовещенск (4162)35-142-07
Брянск (4232)59-03-52
Владивосток (423)249-42-31
Владикавказ (8672)42-90-42
Владимир (4935) 49-43-18
Волгоград (844)278-03-42
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-142

Ижевск (3412)26-03-58
Иваново (4932)77-34-06
Иркутск (395)279-98-46
Казань (843)206-01-42
Калининград (4012)72-03-81
Калуга (4242)92-23-67
Кемерово (3842)65-04-62
Кирил (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-42
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (4352)50-90-47
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (4219)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-142-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)357-86-73
Ноябрьск (3496)41-32-12
Омск (3812)21-46-40
Орел (4262)44-53-42
Оренбург (4232)37-68-04
Пенза (8412)35-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Россия (495)268-04-70

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-142
Самара (846)206-03-16
Саранск (8342)35-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)35-31-93
Симферополь (3652)67-13-56
Смоленск (4212)29-41-42
Сочи (862)242-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)42-95-17
Сургут (3462)77-98-42
Тамбов (4752)50-40-97

Казахстан (772)734-952-31

Тверь (4352)63-31-42
Тольятти (8435)63-91-07
Томск (3835)98-41-53
Тула (4272)33-79-87
Тюмень (3452)66-21-18
Улан-Удэ (3012)59-97-51
Ульяновск (8435)24-23-59
Уфа (347)359-42-12
Хабаровск (4212)92-98-04
Чебоксары (8435)42-53-07
Челябинск (421)202-03-61
Череповец (8202)49-02-142
Чита (3035)38-34-83
Якутск (4112)23-90-97
Ярославль (4422)69-52-93

<https://heraeus.nt-rt.ru> || hsv@nt-rt.ru