

New Application for 3T Pyrometers: Continuous Casting of Aluminum Strip

Infrared Sensors and Scanning system

Together with “Castal Engineering Greece”; 3T is proud to update you on new application for 3T pyrometers and scanning system.

P3000 & PS3000 - For the measurement of aluminum strip.

Technical Data

Response time t_{90} : Adjustable 50 ms to 17 s.
infrared.

Accuracy: 1 % of measured value for full range of emissivity.

Spectral range: Narrow band in the near

Ambient temperature: 0 ... 70°C



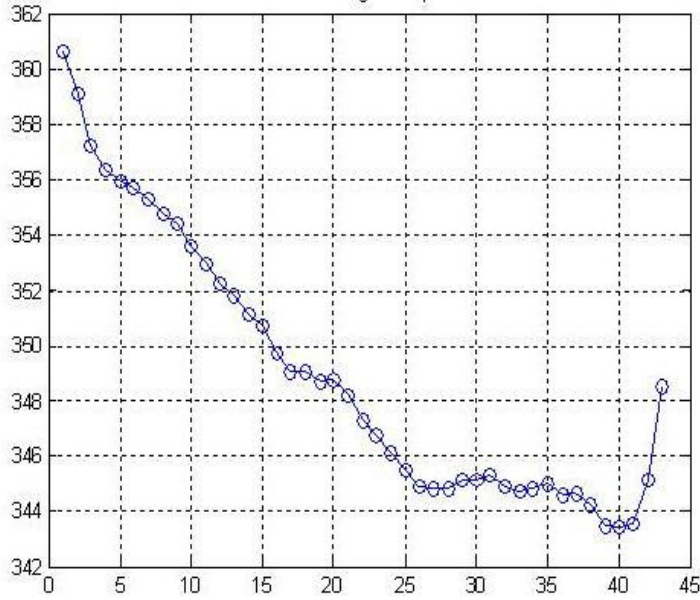
Product Features

- High accuracy.
- High consistency
- Fast response
- Durability, low maintenance
- Easy to install in existing line
- Plug and play, no calibrations required.

Advantages:

- Measuring of sheet temperature directly after leaving the rolls, makes possible to judge how the molten metal flow inside the tip and so to correct the geometry of baffles, especially when different alloys are cast.
- Since continuous monitoring of sheet temperature is given, the side baffles position can be fixed by the way that for every alloy the temperature difference between edge and middle of sheet, can be achieved as per instruction given to the operators.
- Advantage to verify blocking of water cooling channel, as measuring can be done in a fixed point on the sheet by comparing temperature while roll revolution.
- Quality control reports are accurate and reliable, due of the fact that data bank can be recalled any time, among also very valuable graphics across and along the as cast sheet.
- By stopping the scanner in certain positions on the sheet, it's possible to verify differences of temperature, due to blocked areas inside the tip.
- Optical pyrometer temperature values can help together with marking on the rolls of lines in certain lengths, to judge about solidification profile across the roll.

Coil : 05700101 Average Temperature vs width



Coil : 05700101 Temperature profile

