AST
Accurate Sensors Technologies

Measurement of the Iron Stream Temperature

Using Digital Two Colour Ratio Pyrometers with Fibre Optics

The temperature measurement of pouring iron stream is crucial for achieving high quality cast products. A two colour pyrometer with Fibre optics AST 450C FO/PL is recommended for this application due to conditions like very low and fluctuating emissivity's along with the continuous moving and changing position of the of iron stream. The pyrometer is specially designed for the reliable temperature measurement of Iron Stream in Cast houses. Two colour (Ratio) technique helps to overcome the inaccuracies due to atmospheric disturbances like water vapor, dust and contamination on lens etc.

Features

- Rugged mono fiber optics
- Wide temperature range
- Laser targeting light
- USB Output
- Small Spot sizes
- Analog output 0…20mA or 4…20mA or 0-10 V
- Digital interference RS 232 or RS 485
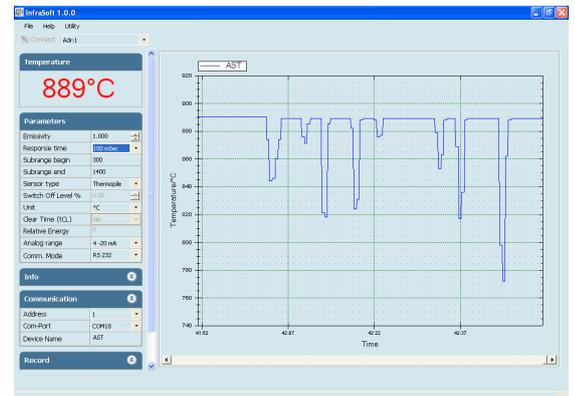- Fiber optics and optical head withstand up to 250°C

AST 450C FO/PL

Pyrometer has laser targeting light which can be turned ON/OFF which helps the user for precision targeting. The digital output of the pyrometer is connected to temperature controller with parameterizer so that all the parameters of the pyrometer can be set without the help of PC or laptop. Auxiliary output of 24VDC from P120 is used to power the pyrometer. Hence the system is standalone and user friendly.

The whole system consist

- Digital **ratio pyrometer** with 10 mtr long fibre optic cable for temperature range from 800°C…2500°C,Two Color technology overcomes the problems of incompletely filled measuring spots, supplied with accessories like air purge unit which minimizes the effect of dust and smoke on the proper working of the lens.

- **Fibre optic Cable** - Special Fibre optic cable and optical head can withstand high ambient temperature upto 250°C whereas pyrometer end(0°C…70°C). Fibre optic system allows installing the pyrometer securely inside the control box and away from site which has high ambient conditions.

- **Junction box with LED display**

- **Connection Cables** of varying lengths available.

- **Software Infrasoft** : The software is useful for adjustments of parameters and parametrization.

- Emissivity setting
- Response time setting
- Peak picker setting
- Average temperature setting
- Graphs
- Data logging

We Measure Temperature Accurately even in extreme conditions

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