

OMEGA VANZETTI®
**The Leader in Infrared
 Temperature Measurement
 and Control**

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CONTINUOUS CASTING MONITORING/CONTROLLING OPERATION

Accurate measurement of the surface of a continuous molten slab yields much useful information by determining the optimum control settings for the various cooling zones in the spray chambers.

The slab temperature continuously changes as each cooling zone is entered. By scanning and controlling each area, the quality of the final product can be improved considerably.

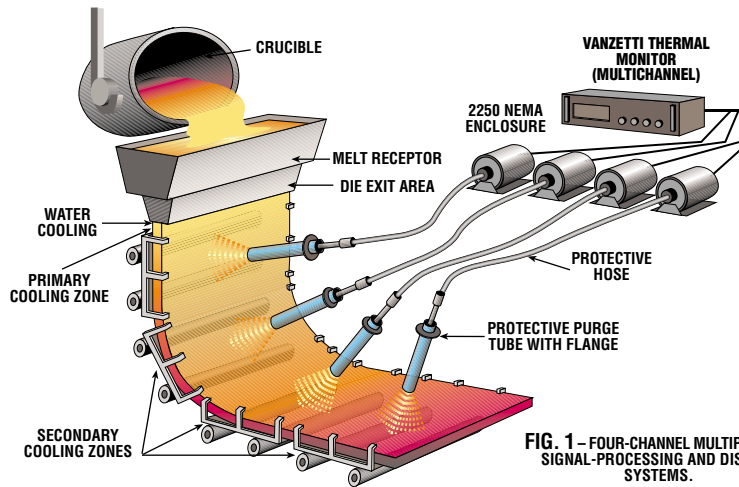
At the die exit, the hottest temperatures exist. Each zone down the strand is progressively cooler than the previous one.

Conditions inside the casters are among the most severe anywhere. In addition to large amounts of water spray, the problem of viewing through smoke and various gases exists.

By proper selection of the appropriately filtered **OMEGA VANZETTI®** detector head, the above troubles with gas, smoke, etc., diminish greatly.

The OH2S (Silicon) detector head operates in a region not affected by atmospheric absorption bands. Likewise an OH2F (Lead Sulfide) with a 2.15 micron filter will accomplish basically the same. The attached illustrates (fig. 1) the various components required for a focused optic system to monitor continuous casting operation.

\$11,000.00
**6 CHANNEL
 BASIC SYSTEM**



Advantages of the fiber optic infrared approach as illustrated are:

- Fast response time to 5 mSec
- Multi-application capability
- Wide temperature of operation
- Speeds up production by controlling the process by temperature instead of time
- Ability to control temperature with both hi-low logic and/or proportional control options if desired
- Multichannel capability
- Adjustable emissivity control
- Optical outputs include: 4-20 md, 0-10 vdc and thermocouple types "J" or "K"
- Flexible fiber cable up to 30' (depending on the temperature range)



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