

OMEGA VANZETTI®
The Leader in Infrared
Temperature Measurement
and Control

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ALUMINUM/STEEL CAN TEMPERATURE MONITORING

Two conditions rule out conventional temperature measuring methods in aluminum/ steel can manufacturing. First, the time to measure is typically 50 milliseconds. Second, it is not practical to touch the can.

Infrared monitors have response times adequate for measurement and only need to "see" the can. They can be synchronized with an on-off detection device such as a photo-electric cell and made to sample and hold the temperature reading of the can and not the ambient temperature. Detection equipment is available at wavelengths which "see through" the oven environment.

OMEGA VANZETTI® has developed and manufactured an OS1512 Detector Head which is ideal for line-of-sight applications and relatively low temperatures.

The Thermal Monitor at a response time of 5 milliseconds can measure cans traveling at the rate of 40" per second. Sample and hold circuitry is controllable with an external signal, such as the proximity switch illustrated in figure 1. The hi-low logic option provides a means of signaling an out-of-tolerance reading through a relay closure.

Thermal monitors are modularly constructed to allow for several options to suit the customer's particular application. Printed circuit modules, digital display, and emissivity control are a few of the many features available. Detector Heads are mounted in rugged metal cylinders for protection from hostile environments and for ease of mounting near the heating process.

\$2,350.00
BASIC SYSTEM

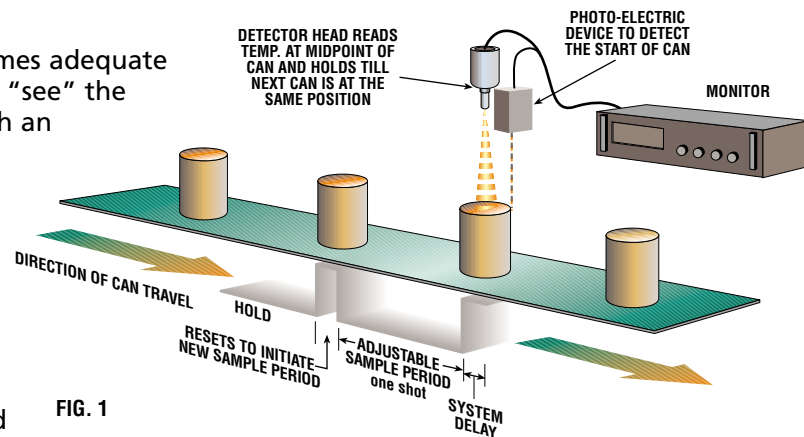


FIG. 1

Advantages of the line of sight infrared approach as illustrated are:

- Fast response time to 10 mSec (0 to 63%)
- Low temperature operation down to 50°C (depending on seat size and target distance)
- Increases productivity
- Non-contact temperature monitoring
- Available at wavelengths to "see through" the oven environment
- On off and/or sample and hold circuits to read just the can temperature rather than the space between the cans
- Multichannel capability
- Adjustable emissivity control
- Line of sight optics are mounted in a rugged metal cylinder for protection from hostile environments
- Optional outputs include: 4-20 md, 0-10 vdc and thermocouple types "J" or "K"



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