

OMEGA VANZETTI®
The Leader in Infrared
Temperature Measurement
and Control

Sales and Service
1-800-342-3747SM
1-800-FIBER-IR
vanzetti.com
e-mail: info@vanzetti.com

KILN TEMPERATURE CONTROLLING

In cement, lime or various other rotary kilns, accurate measurement of the product temperature is important to optimize processing. The internal product temperature must be measured through contamination, smoke and dust. In addition, because of the kiln length, the infrared detector must view deep into the kiln and view a relatively small spot size.

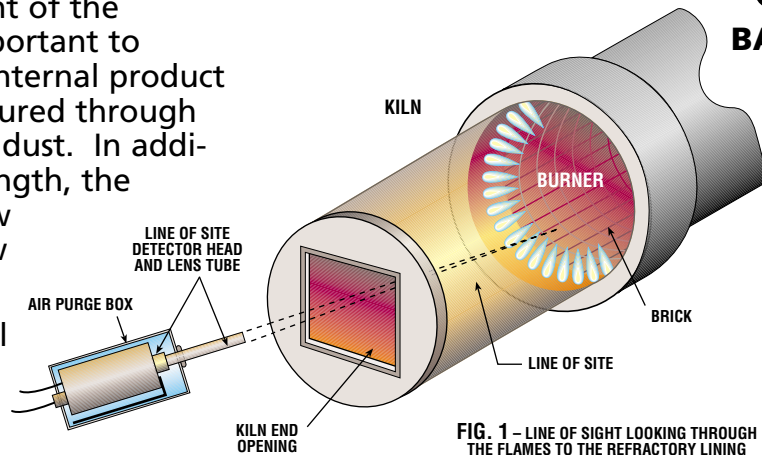
OMEGA VANZETTI® model OS1512-3.8 Detector Head is ideally suited for this application. The detector head is spectrally filtered at 3.8 microns to minimize interference from the kiln flames and contaminants (fig. 1).

The signal from the detector head is fed to an Omega Vanzetti control chassis where it is further processed, and then may be used to control the kiln burners for a precise operating temperature.

Temperature measurement of the kiln's outside shell temperature is also important as this can tell of premature refractory failure. By using an Omega Vanzetti OS1512G Detector Head and viewing the outside shell of the kiln with a scanning mechanism, any sudden temperature rise can be quickly detected. The Omega Vanzetti control chassis can be specified with Hi/Low relay output to signal an alarm or other device if the selected temperature is exceeded.



\$6,500.00
BASIC SYSTEM



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

- Fast response time to 5 mSec (0 to 63%)
- Adjustable emissivity control
- Reduction of operating costs for fuel through accurate knowledge of time at known temperature for kiln contents
- Reduction of kiln maintenance cost and kiln life extension through early detection and correction of refractory failures
- Improved quality of kiln contents through measured control of the temperature of the material being processed with accompanying outputs to the operator
- Reduction of switchover labor costs associated with changes of kiln contents through computer parameter record retrieval
- Ability to monitor the kiln temperature operating characteristics in real time and record



OMEGA VANZETTI, INC. Six Merchant Street, Sharon, MA 02067
Tel: (781) 784-4733 • Fax: (781) 784-2447

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