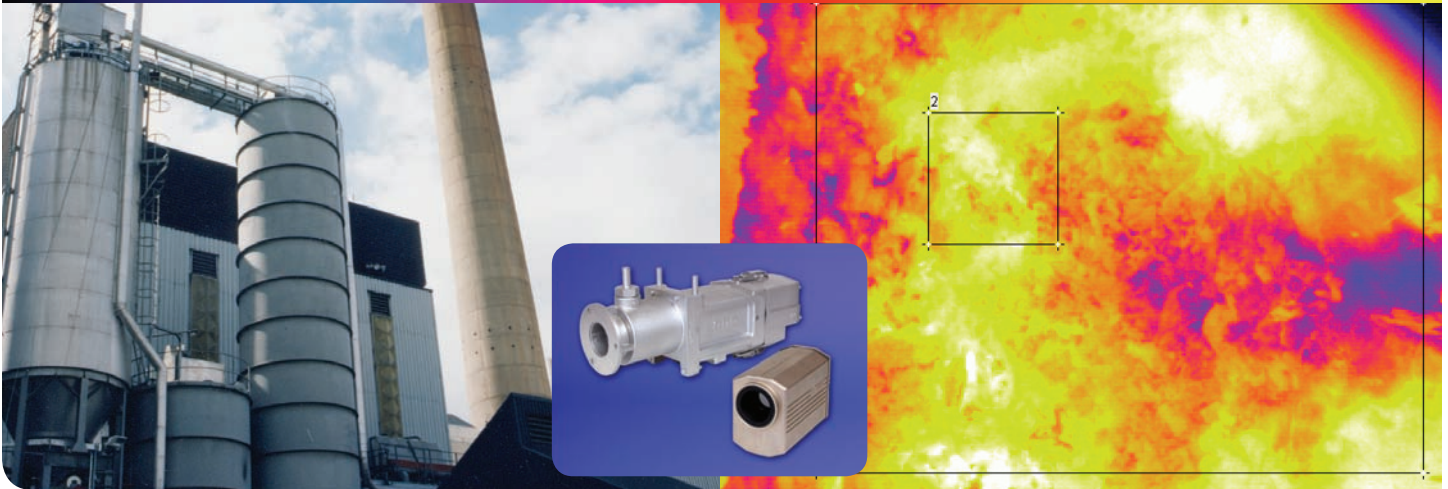


# True Gas Temperature Measurement Incinerator Thermometer - CDA



For temperature measurement in thermal waste treatment plants

## The Process

Incinerators burn municipal, medical and hazardous wastes. Many federal, state and local regulatory agencies require the installation and use of a furnace gas temperature measurement device. The traditional method for this has been contact thermocouples installed in the furnace gas stream.

## The Problem

The environment in an incinerator contains high temperature corrosive gases, as well as various particulate levels. These conditions can affect the life of a thermocouple, creating a high annual cost of maintenance and replacement of the temperature measuring device.

## The Solution

The CDA Incinerator Thermometer is a non-contact temperature measurement device. It can best be described as an "invisible thermocouple" which will measure into the combustion chamber at approximately 6 to 7 feet (2 meters). All parts of the system are mounted external to the process, therefore eliminating the affects of the high temperature, corrosive atmosphere on the device. This ensures a high accuracy temperature measurement that requires little maintenance over long periods of operation.

# LAND

Non-Contact Temperature  
Measurement Solutions

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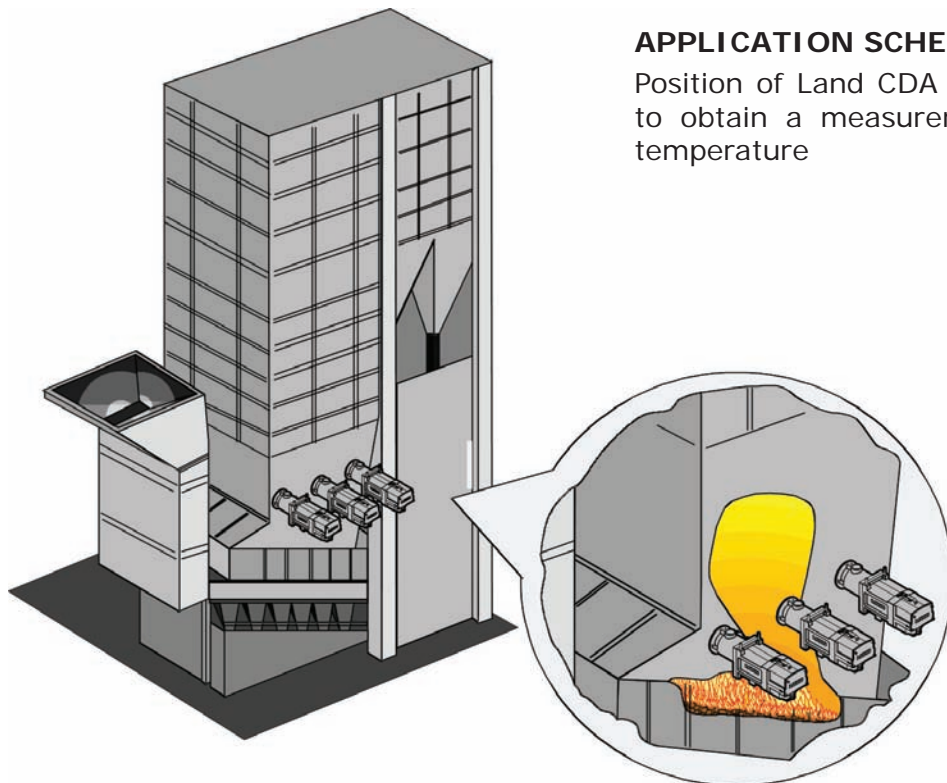
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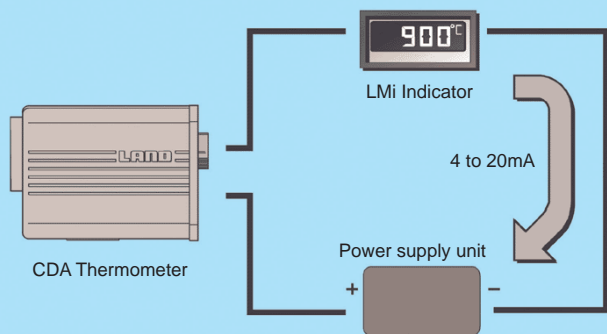
Applies in the USA



### APPLICATION SCHEMATIC

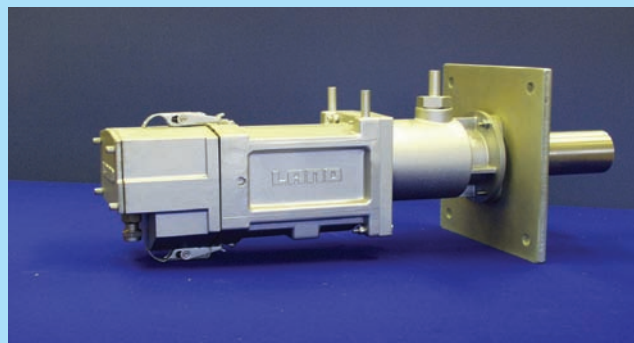
Position of Land CDA thermometers to obtain a measurement of grate temperature

### SCHEMATIC DIAGRAM



### MOUNTINGS & ACCESSORIES

A range of optional accessories is available to securely install and protect the thermometer at the optimum position on the process.



### CDA SPECIFICATION

Range:	400 to 1800°C/752 to 3272°F
Output:	4 to 20mA linear (2-wire loop connection)
Response time:	1 to 10s adjustable
Resolution:	<0.5°C/1°F
Accuracy (absolute):	<0.5% Kelvin over 600 to 1600°C/1112 to 2912°F
Ambient temp. limits:	0 to 50°C/32 to 122°F (without water cooling mountings)
Drift with time:	<1°C/2°F per year
Power supply:	11 to 45V d.c.
Sealing:	To IP65/NEMA4X requirements
CE:	EN 50-082-2 (immunity), EN 50-081-1 (emission), IEC 1010 (safety)
Vibration:	3G, any axis, 10 to 300Hz