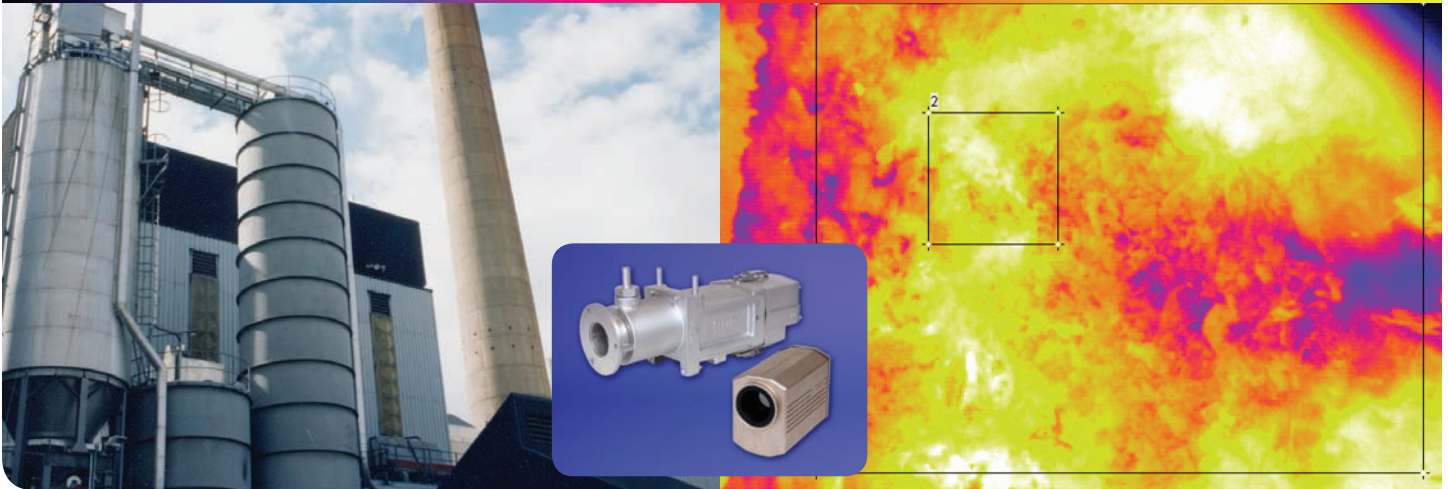


True Gas Temperature Measurement Incinerator Thermometer - CDA



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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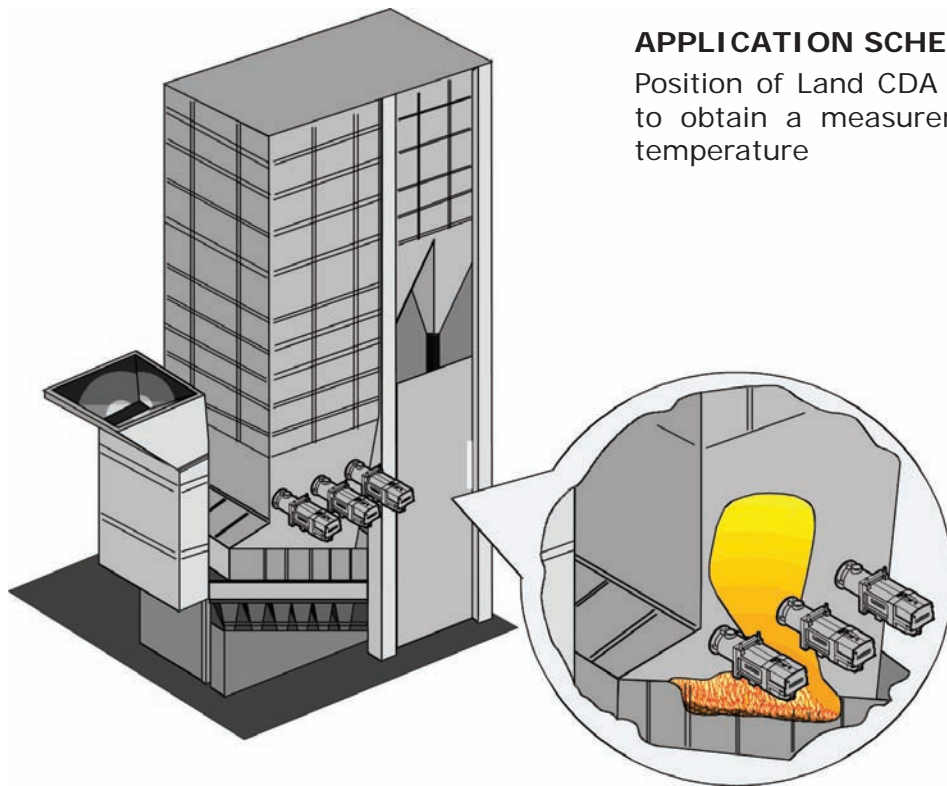
LABORATORY
ACCREDITATION
BUREAU
ACCREDITED
ISO/IEC 17025:2005

REGISTERED
ISO 9001
MANAGEMENT SYSTEM

An **AMETEK**® Company

Applies in the UK

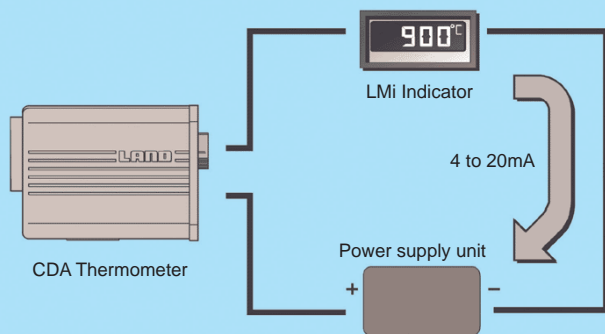
Applies in the USA



APPLICATION SCHEMATIC

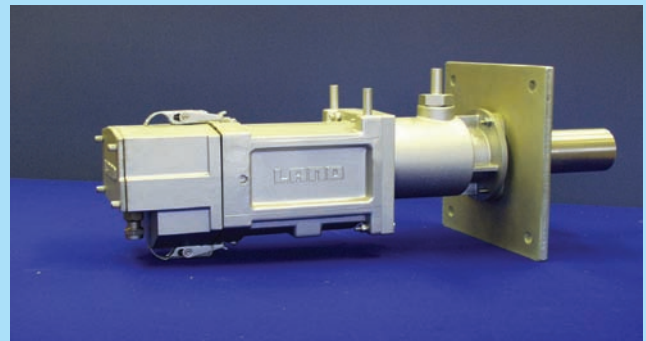
Position of Land CDA thermometers to obtain a measurement of grate temperature

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