

EAG

Proud distributor for:

LAND



Portable Flue Gas Monitoring

LANCOM 4

Features

Monitoring of up to 17 measurement parameters

Up to 9 gas measurements in a single instrument

High quality colour display

Multiple Language support

USB Communications Support

Weighs only 6 kg (13 lbs)

Robust, industrial design

Wake and Sleep, semi-continuous operation mode

Range of user selectable options

Data acquisition & analysis software

Simple field upgrade

Meets ASTM D-6522 with Dry Sampler probe

Benefits

One instrument to meet all requirements

User selectable

Visualise your data with new widescreen display

Navigate the menu in English, French, German, Italian, Spanish and Chinese (other languages available upon request)

Simple interface to PC and data transfer - supports USB memory sticks

Easily carried around plant

For daily use in the harshest plant environments

For periodic unattended operation

Ideally matched to application requirements

Capture, manipulate, and report data on your PC

Add features and options as and when required

Report generation to recognised standards

Selecting the analyser

The following features are standard on all instruments:

- **Standard Sample Probe**
- **USB Interface**
- **Data Logging**
- **RS 232 or RS 422 Serial Communications Interface**

The user selects which gases (between 3 and 9) and then the options that are required for their application. (See list below)



Options

Draft Measurement

Flow Measurement

Smoke Measurement

Range of Sample Probes

Insight Data Acquisition Software system

Analogue outputs

Wake and Sleep facility (Semi-continuous monitoring)

Language display options

Description

Internal stack pressure in hPa or inches water gauge

Flue gas velocity, flow rate and mass emissions rate

Readings of Smoke spot number (Bacharach Smoke scale)

Smoke, Flow, DrySampler* and High Temperature

Simple-to-use Windows™ reporting software

(16 current loops, independently user configurable)

Takes gas measurement at user defined intervals (see below)

English, French, German, Italian, Spanish & Chinese

Measurement Specifications

Sensor	Minimum Range	Maximum Range [#]	Accuracy % of range	Resolution
O ₂	0 to 25% v/v	0 to 30% v/v	±1%	0.1% v/v
CO (low)	0 to 100 ppm	0 to 4000 ppm	±2%*	0.1 ppm
CO (H ₂ compensated)	0 to 100 ppm	0 to 4000 ppm	±2%*	0.1 ppm
CO (high)	0 to 4000 ppm	0 to 10 %	±2%*	0.1 ppm
SO ₂	0 to 100 ppm	0 to 5000 ppm	±2%*	0.1 ppm
NO	0 to 100 ppm	0 to 5000 ppm	±2%*	0.1 ppm
NO ₂	0 to 100 ppm	0 to 1000 ppm	±2%*	0.1 ppm
H ₂ S	0 to 200 ppm	0 to 1000 ppm	±2%*	0.1 ppm
CO ₂ **	0 - 25% v/v		±2%*	0.1% v/v
Hydrocarbons (C _x H _y)	0 to 5% v/v (Application dependent)			0.1% v/v
Flue Gas/Ambient Temperature	Measured			
Draft	± 50 hPa / 20 " Water Gauge ***			
Flow (velocity)	1 to 50 m/s			

Note: Special ranges are available

*Calibration per ASTM D-6522 or LAND factory procedure

**True measurement if sensor fitted (calculated if not)

***Reduced to ± 25 hPa / 10" Water Gauge when used with flow probe

#Operating at maximum possible range may affect sensor life and accuracy

Combustion & Environmental calculations

- **Combustion efficiency**
- **Loss**
- **Excess Air**
- **CO₂ (where no sensor fitted)**
- **Oxygen normalisation**
- **Total NO_x**
- **Wet or dry basis**
- **Automatic conversions - ppm, mg/m³, lb/mmBtu, ng/J**



Sensor Types

Lancom analysers use the following sensors in order to measure gas concentration levels.

Sensor Type	Gas
Electrochemical,	CO Low, CO High, CO Low H ₂ compensated, O ₂ , NO, NO ₂ , SO ₂ and H ₂ S
Infrared	CO ₂
Pellistor/Catalytic	C _x H _y

EAG -- Environmental Alliance Group Proud distributor for:

PO Box 630070
 Simi Valley, CA 93063
 805-527-3878 Office
 805-527-5319 Fax
 Egemail@aol.com

or for additional information
 try our website:

www.eageme.com

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 Combustion & Environmental
 Monitoring

www.lancom4.com

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