



## Lancom III

### Premier

## Portable Multi-Function Flue Gas Analyzer

The Lancom *Premier* is the top of the range portable flue gas analyzer from LAND. A clear assessment of present and future monitoring requirements has driven the design for an instrument with a total capability. The *Premier* has uniquely challenged existing concepts for portable flue gas analyzers - by everything as standard.

In taking this leap forward, LAND has recognized the importance of practicality. A single instrument for all applications - or a selection of instruments for varying applications.

### Standard Features

- 9 gas measurement capability
- Draft measurement
- Standard Probe (incl. 12" probe, 10 ft hose)
- Flow measurement (incl. 2.3 ft Flow probe, 10 ft hose)
- Smoke measurement (incl. 12" Smoke probe, 10 ft hose)
- DrySampler™ Probe (incl. 12" probe, 10 ft hose)
- Insight Data Acquisition and Analysis software
- RS 232 Serial Communications
- NO<sub>x</sub> calculation (Measured NO + NO<sub>2</sub>)
- Integral Data Printer
- Data Logging
- Analog outputs
- Semi-continuous monitoring
- Integral water catchpot, chemical and particulate filters
- Carrying Case

### Gases Measured

- CO<sub>Low H<sub>2</sub> comp.</sub>
- CO<sub>High</sub>
- O<sub>2</sub>
- NO
- NO<sub>2</sub>
- NO<sub>x</sub>
- SO<sub>2</sub>
- H<sub>2</sub>S
- C<sub>x</sub>H<sub>y</sub>
- CO<sub>2</sub>

### Applications

- Compliance Monitoring
- ISO 14000
- Site Surveys and Audits
- Plant Operating Permits
- CEM Backup System
- US EPA
- CTM-030; CTM-034



## Measurement Specifications

Sensor	Standard Range	Max. Range	Accuracy	Resolution
Oxygen, O <sub>2</sub>	0 to 25.0 % Vol.	0 to 30.0 % Vol.	±1 %	±0.1 % Vol.
Carbon Monoxide, Low (H <sub>2</sub> ) comp.	0 to 2 000 ppm	0 to 4 000 ppm	±2 %*	±1 ppm
Carbon Monoxide, CO (high)	0 to 4 %	0 to 10 %	±2 %*	±1 ppm
Sulphur Dioxide, SO <sub>2</sub>	0 to 2 000 ppm	0 to 5 000 ppm	±2 %*	±1 ppm
Nitric Oxide, NO	0 to 1 000 ppm	0 to 5 000 ppm	±2 %*	±1 ppm
Nitrogen Dioxide, NO <sub>2</sub>	0 to 100 ppm	0 to 1000 ppm	±2 %*	±1 ppm
Hydrogen Sulphide, H <sub>2</sub> S	0 to 200 ppm	0 to 1 000 ppm	±2 %*	±1 ppm
Carbon Dioxide, CO <sub>2</sub> **	0 to 25.0 % Vol.	-	±0.5 % Vol	±0.1 % Vol.
Hydrocarbons	0 to 5.0 % Vol. (Application dependent)			
Flue Gas/Ambient Temperature	Measured			
Draft	± 20 " Water Gauge ***			
Flow (velocity)	1 to 50 m/s			

*Note: Special ranges are available*  
*\*Calibration per CTM034 or LAND factory procedure*  
*\*\*True measurement if sensor fitted (calculated if not)*  
*\*\*\*Reduced to ± 26 cm / 10 " Water Gauge when used with flow probe*

## Instrument Specifications

Display	Full function alphanumeric/graphic LCD with backlight
Keypad	40 x 8 Matrix Liquid Crystal Tactile membrane (integral with display) functions keys and cursors
Indicators	LED type for ON (Power), Stand-by, Service, Charge, Low Batt., Fault
Power Supply	95-265 V a.c. ±10%, 50-60 Hz, 30 Watts Rechargeable battery 2 x 6 V 4 Amp. hours Typical 8 hr. operation, dependent on options fitted
Ambient Temperature	+23 °F to 113 °F
Case	Medium density blended polyethylene
Dimensions	17.8" x 4.7" x 9.6 inches
Weight	13 lb

## Probe Options

Probe Type	Length Options (ft)	Maximum Flue Gas Temperature	Options / Accessories
<b>Standard Probe</b>	3.3, 5, 6.6, 9.8	1112 °F	33 ft hose option
<b>Smoke Probe</b>	2.4, 3.2	1112 °F	Filter Papers, Bacharach Chart and In-line Flowmeter
<b>Flow Probe</b>	3.9, 7.2, 9.8	1112 °F	33 ft hose option
<b>DrySampler™ Probe</b>	3.3, 5, 6.6, 9.8	1112 °F	33 ft hose option
<b>*High Temp. Probe</b>	1.6, 3.3, 4.9, 6.6	2552 °F	3 m / 10 ft hose available

*\*optional probe*

**LAND**

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