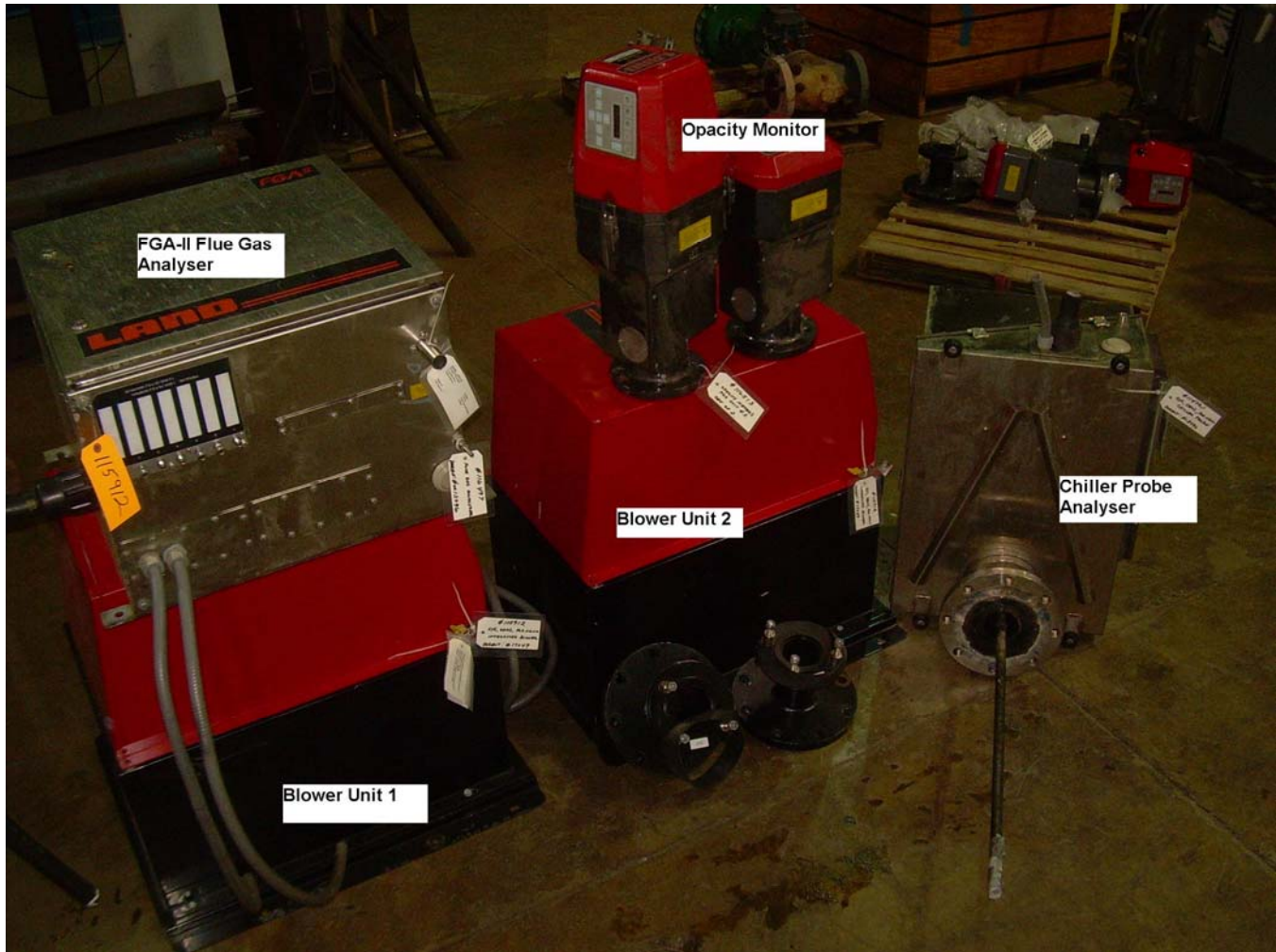


CONTINUOUS EMISSIONS MONITORING & OPACITY EQUIPMENT



Single Stack Set - Offered "As Is"

*** Single Flue Stack Set of Continuous Emissions Monitoring (CEMS) and Opacity Equipment,**

Continuous emissions monitoring system and Opacity monitoring system that includes the following:

(Qty 1) FGA-II Continuous Emissions Monitoring systems for NO_x (NO), and O₂.

Consisting of:

- Stainless steel case (IP66/NEMA 4X)
- Patented dual sensor technology housed in a temperature and humidity controlled enclosure
- Low measuring Option for low NO_x burners
- Control module containing processor with back-lit LCD display and keypad
- Pump & valve module with acid resistant and sample gas pressure control
- DIN rail mounted I/O system w/

- 1 Current loop output card (8-point)
- 1 Relay output card (5 point)
- 1 Current loop input card (8-point)
- 1 Digital input card (8-point)
- Auto Calibration
- MODBUS serial data communication
- Standard operating temp 40degF to 122degF

(Qty 1) Chiller probes each with 1.0 meter probe tube and Two-Stage sample Cooler
Each consisting of:

- Smart blowback w/timer & remote contact initiation
- Heated blowback accumulator
- Probe calibration
- Continuous sample gas temperature monitoring
- NEMA 4X enclosure
- Removable filter-tipped probe tube with T/C
- 115V, 550 F
- 3" 150# ANSI Mounting Flange
- 1.0M Probe Tube with filter Tip & Support

(Qty 2) 6" to 3" ANSI SS Spool piece adaptors for mounting CEMS Probe on Existing flange

(Qty 1) Model 4500 Premier Opacity monitor with Automatic fail safe shutters designed for low opacity applications of 10% or less

Each Consisting of:

- Transmissometer with built in audit Jig and LCD / Membrane keypad
- Accuracy: \pm 0.5% opacity
- Repeatability: \pm 0.3% Opacity
- Retro-reflector Unit (0.7 to 10 meter Pathlength)
- Stainless steel termination box (NEMA 4)
- Air Purge Assemblies with fail safe shutters
- Installation, operation & maintenance manual
- USEPA Certificate of conformance

(Qty 2) Integrated Blower systems

- with filter and blower pressure switches
- baseplate mounted to stack/duct at monitor
- Power: 110V/60 Hz (separate 20 amp breaker)
- Pressure switch, differential, for blower filter
- Pressure switch, filter side, for blower filter
- Extended cowl
- weather cover

Original Purchase Date; September 2006

Operation and Maintenance Manual

FGA^{II} Flue Gas Analyser and ChillerProbe
Publication Number 770.070
Language English



LAND

instruments international

Combustion & Environmental Monitoring

Operation and Maintenance Manual

ChillerProbe
Publication Number 800901
Language English



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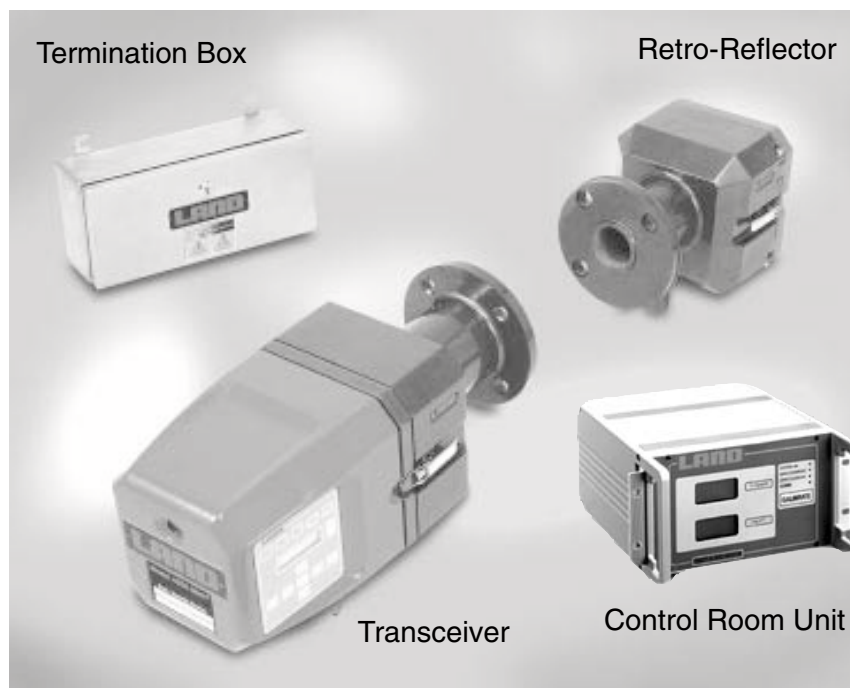
Combustion & Environmental Monitoring

A1 General Description

The Model 4500 Premier is designed for continuous operation in all weather conditions. Maintenance requirements are minimal.

The Land Instruments International Model 4500 Premier Continuous Opacity Monitoring System (COMS) measures opacity by shining a light beam through flue gases.

An internal microprocessor calculates dust density and other parameters.



Transceiver	Containing all of the major electronic and electro-optic components.
Retro-Reflector	Containing a corner cube reflector.
Termination Box	For customer terminations.
Air Purge System (Not shown)	A continuous supply of purge air essential to prevent dust and corrosive gases from affecting the optical system. Single and dual electric blowers or compressed-air driven devices are available to suite individual site requirements. Automatic fail-safe shutters can also be fitted for temporary protection in the event of a purge air failure.
Control Room Unit	A remote data display unit. (optional)
Weatherproof Cover	For full environmental protection. (optional)

Operation and Maintenance Manual

Version III Blower
Publication Number 770.094
Language English



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Combustion & Environmental Monitoring