



310



320



330-1G / -2G LL

<b>GET THE JOB DONE RIGHT</b>	<b>Integrated NOx filter</b> Eliminates cross-sensitivity errors of CO measurements	
		<b>Continuous Temperature Compensation</b> Eliminates temperature related errors when moving from areas with different ambient temperatures
	<b>CO Over Range Protection (Factory set to 4,000ppm)</b> Over range shut-off valve protects and prevents deterioration of sensor to maximize sensor life	<b>CO Over Range Protection (user selectable)</b> Over range shut-off valve protects and prevents early deterioration of sensor to maximize sensor life
	<b>Permanently attached kink resistant patented Teflon probe hose</b> Eliminates leaks which can cause O <sub>2</sub> reading errors	<b>No leak Cam Lock kink resistant patented Teflon probe hose</b> The SURE SEAL bayonet-type hose connector eliminates leak related errors, prevents water build up and makes connecting the hose a snap
<b>MORE FEATURES FOR MORE JOBS</b>	<b>Draft and Pressure</b>	<b>Draft / Differential Pressure / Differential Temperature</b>
		<b>Optional Probes - Gas leak, Ambient CO<sub>2</sub>, and Temperature</b>
		<b>Android App</b>
	<b>AC Power Adapter is used not only to charge the unit, but can also be used for continuous operation with AC power or via PC USB port</b>	
	<b>Fastest start up: 30 seconds</b> The fastest start time in the industry, twice as fast as the competition	
	<b>Built-in Condensate Trap designed with clear polymer window and condensate level mark</b> Protects sensors and is easy to empty	<b>Built-in Condensate Trap designed with an electronic level sensor with Dual LED alarm and clear polymer window giving 180° view</b> Protects sensors and is easy to empty
	<b>Extended CO Range 8,000ppm to 30,000ppm (330-2 only)</b> For industrial applications	
<b>BUILT TO LAST</b>	<b>Automatic pump shut-off for CO over range and Auto Purge</b> Protects the sensor by preventing excessively high CO levels. Auto purge runs the pump until high CO level drops below 50ppm	
	<b>Built-in Condensate Trap designed with clear polymer window giving 180° view and includes condensate level mark</b> Prevents condensate from entering the unit and damaging the sensors and electronics	<b>Condensate trap built into the housing, incl. an electronic level sensor alarm and clear polymer window giving 180° view</b> Prevents condensate from entering unit and damaging sensors and electronics
	<b>Sensor replacement and calibration done in-house</b> 2 year warranty and up to 3 years of life (typical)	<b>Field replaceable Pre-Calibrated CO and O<sub>2</sub> sensors</b> No need to worry about sensors. And when it's time to replace them, no special procedure is required, just plug-and-play
	<b>Teflon kink resistant hose permanently attached</b> Good for the life of the instrument	
	<b>Heavy duty housing</b> Designed to withstand accidental drops and harsh conditions	
	<b>Two year warranty</b>	<b>Four year warranty</b> Long life O <sub>2</sub> and CO sensors
	<b>Rechargeable Lithium batteries with included AC/USB charger</b>	
<b>EXPERTISE SECOND TO NONE</b>	<b>Worldwide leader in combustion analysis (#1 manufacturer of combustion analysis instrumentation in the world)</b>	
	<b>Unparalleled German Design Engineering at facilities in the Black Forest</b>	
	<b>Country wide technical support and NATE seminars on combustion testing</b> Regional Sales Managers are NATE certified trainers	

# COMBUSTION ANALYZER FEATURES-PARAMETERS



MODEL	310	320	330-1G / -2G LL
<b>FEATURES / FUNCTIONS</b>			
Full instrument diagnostics at start-up	✓	✓	✓
Batteries rechargeable: 6 hrs to charge, 10 hrs to discharge	✓	✓	✓
User-replaceable, pre-calibrated sensors	-	✓	✓
A/C adapter for line operation	✓	✓	✓
Color Graphic Display with backlighting / zoom	Numeric Monochrome LCD	✓	✓
Dynamic info-graphic visuals	-	✓	✓
Wireless Bluetooth Module with free Android App OPTION	-	✓	✓
IRD wireless printer OPTION	✓	✓	✓
EasyHeat PC user software OPTION	-	✓	✓
Detachable probe	-	✓	✓
Internal storage capacity (# of complete tests)	-	500	500,000
User ID and custom logo on printout	-	✓	✓
Startup time max 30 sec	✓	✓	✓
Link test data with specific folder and memory location	-	✓	✓
Pre-programmed fuels	5	20	20
Built-in Condensate trap with clear polymer window	✓	✓	✓
Condensate trap with Electronic Level Sensor, LED alarm and display indication	-	✓	✓
Metal probe hose connector with bayonet cam lock	Not required	✓	✓
Long-Life Sensor Option / 4-years life for CO, O <sub>2</sub> and NO	-	-	✓
Automatic pump shut-off for CO over range (user settable)	Factory set to 4,000 ppm	✓	✓
Auto purge at shut off, until reading drops below 50ppm	✓	✓	✓
Warranty, Instrument and O <sub>2</sub> & CO Sensors	2 yrs.	2 yrs.	4 yrs.
<b>PARAMETERS</b>			
O <sub>2</sub> measurement, 0 to 21% +/-0.1%	✓	✓	✓
CO measurement, 0-4000 ppm, +/-10ppm, with integrated NO <sub>x</sub> filter	✓	✓	✓
CO Sensor Extended Range, 8,000 ppm H <sub>2</sub> Compensated with extended range from 8,000 to 30,000 ppm	-	-	2G LL Only
Stack Temperature measurement, -40 to 1200° F, +/-1.0° F	32 to 752° F, +/-1.0° F	✓	✓
Ambient Air temperature measurement, 23 to 113° F, +/-1.0° F	✓	✓	✓
Differential Temperature measurement, 90° F	-	✓	✓
Pressure (Draft) plus Differential, -4.0 to 16.06 H <sub>2</sub> O, +/-1.0%	Draft and Pressure only	✓	✓
Combustion Efficiency (Calculated) 0-100%	✓	✓	✓
CO - Air free or Undiluted (Calculated) 0-999ppm	✓	✓	✓
Excess Air (Calculated) 0-99%	✓	✓	✓
CO <sub>2</sub> Carbon Dioxide (Calculated from O <sub>2</sub> ) 0-100%	✓	✓	✓
External Ambient CO Probe, 0-2,000ppm, +/-5% OPTION	-	✓	✓
External Ambient CO <sub>2</sub> 0-2,000ppm, +/-5% OPTION	-	✓	✓
K-Type port for remote ambient temperature OPTION	-	✓	✓
Gas Leak Testing Probe OPTION	-	✓	✓
NO/NO <sub>x</sub> Nitrogen Oxide sensor, 0-3000ppm, +/-5% OPTION	-	-	✓
NO <sub>x</sub> (Calculated from NO)	-	-	✓
NO <sub>x</sub> (Corrected) Referenced to % O <sub>2</sub> for selected fuels	-	-	✓
NO (Corrected) Referenced to % O <sub>2</sub> for selected fuels	-	-	✓