

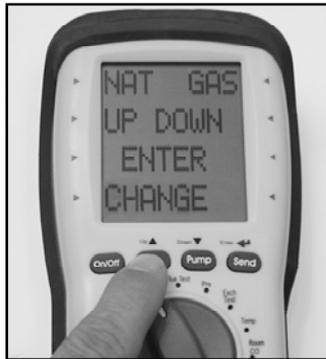
C125 & C127 QUICK START GUIDE

Thank you for purchasing the UEi Eagle combustion analyzer. We have designed this service tool to be extremely functional and easy to use. Remember the UEi Eagle analyzers should be used on any combustion appliance to ensure safe, reliable and efficient operation regardless of the fuel in use.

CO/COMBUSTION ANALYSIS



Turn Power on in area of fresh air and allow to countdown



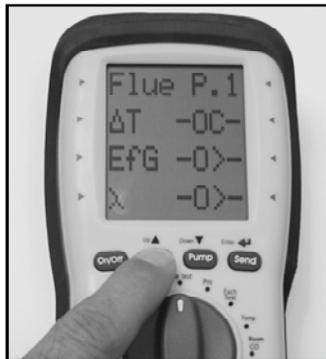
Rotate selector to Fuel. Press UP or DOWN to scroll to select desired fuel. Top line is selected fuel.



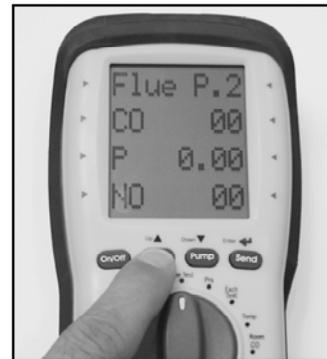
Connect flue probe thermocouple connector to T1, and connect flue probe to water trap. Use optional probe with T2 for inlet temperature.



Rotate selector to "Flue Test" and begin testing.



Flue Test Pg. 1 - O₂, CO, Draft (P) and TF.

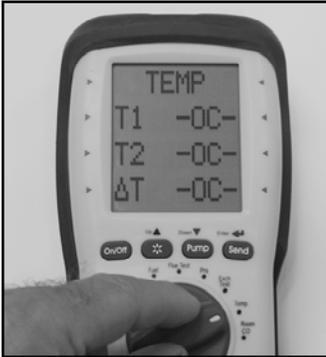


Press and Hold* the UP button to toggle screen between page 1 and 2. Flue Test Pg 2 CO₂, Efficiency and Excess Air. (NO_x available on Eagle 3 C127)

Footnote: Purge fresh air after use.

DIFFERENTIAL TEMPERATURE TEST

This test is useful for quick checks of temperature rise, or other differential tests



Rotate selector to Temp

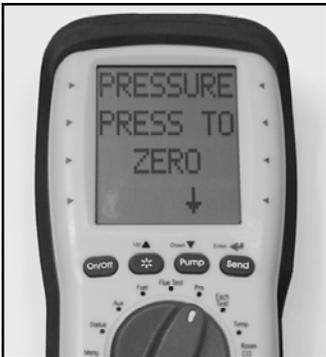


Connect flue probe thermocouple or accessory thermocouple connector to T1. Connect accessory thermocouple probe to T2. Compatible with any K-Type thermocouple.



Place thermocouples in test locations to start testing.

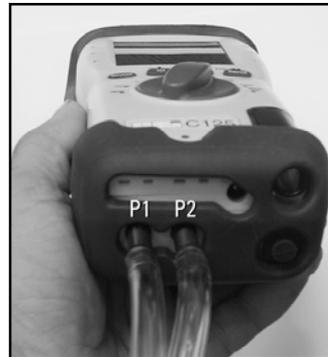
MANOMETER DRAFT & STATIC PRESSURE TEST



Rotate selector to Prs (Pressure)



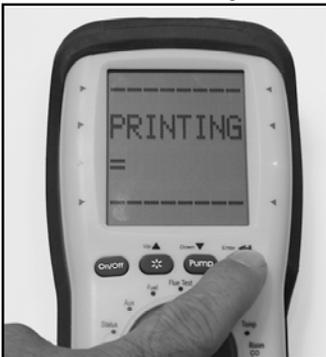
Press and hold DOWN button to zero pressure sensor.



Connect draft probe to P1. Use P2 for Differential. Place probe tip in flue to measure draft.

PRINTING AND STORING RESULTS

Combustion Flue Testing, Pressure (Draft) Differential or Temperature Testing selector positions



Press "SEND" briefly to start the printout of results.



Press again during print to cancel.



Press and hold "SEND" to log the current readings for Combustion Flue Testing, Pressure (draft) Differential, and Temperature selector positions.

CHARGE INDICATOR



Red charge light indicates AC power adapter is connected.

STATUS PAGE



The status page provides a quick overview of the remaining battery life, currently set date and time, and the number of days remaining until the recommended calibration schedule.

AUX SETTING



The display on the AUX setting can be customized to any four parameters you choose. These are selected on the MENU selector, scroll to SCREEN, scroll to AUX then select Line 1 through 4 and choose the desired measurements. Note: CO Air Free is only available on the AUX screen.

CO Room Test



Disconnect all probe connections from the C125 and place handset in the area to be tested. Rotate selector to Room CO



Press the PUMP button to start the test. The CO reading will be logged every 2 minute for 30 minutes and store a summary that can be printed.



View or print or delete reports from the "MENU", "REPORTS" section



Select "Room CO" for the reports menu.

HEAT EXCHANGER TEST

There are many methods to test heat exchanger integrity. One of these is to observe the Excess Air, O₂ and CO readings both before and after the blower turns on. If the heat exchanger is sealed then your O₂ and CO readings should remain fairly stable. A breach (opening) in the heat exchanger may allow fresh air to be forced into the flue after the blower turns on due to a pressure increase in the plenum. The result could be a rise in the measured O₂ in the stack gas and an increase in the Excess Air calculated. In some sealed systems the fresh air drawn in through the breach may reduce the combustion air available and lead to an increase in the CO reading. If either of these occurs it is best to perform additional testing and inspection to determine the possible cause.

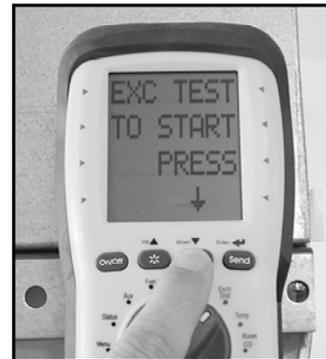
Note: Many cracks are invisible to bore scopes or the naked eye, and only open or separate when the heat exchanger reaches operating temperature.



Rotate selector to Exch Test. Call for heat on the furnace. Observe the levels for O₂ and CO.



Prior to the blower turning on, and when the O₂ readings have stabilized press the SEND button.



After the blower turns on press PUMP to start the countdown.



The meter will wait 30 seconds and then record the values for CO, O₂ and Excess Air. Test results will automatically be stored and include the values before the blower turns on, the values after and any variance. View or print these values from the Report menu.

ADDITIONAL NOTES

Activate the Backlight and Worklight by briefly pressing



MAIN MENU NAVIGATION

MAIN MENU	SUB MENU	OPTIONS / COMMENTS	
SETUP	SET TIME		
	SET DATE		
	C<---->F		Select temperature scale in °F or °C
PRESSURE	EXIT		Returns to MAIN MENU
	SMOOTH		OFF = normal response. ON = slower (damped) response Always defaults to normal response on start-up
	RESOLVE		LOW = normal. HIGH = displays to an extra decimal place Always defaults to low resolution on start-up
	PS UNITS		mBar, mmH2O, Pa, kPa, PSI, mmHg, hPa, and InH2O C125/C127 defaults to InH2O on start-up
	EXIT		Returns to MAIN MENU
REPORT	COMB'N	Press to select line 1 value	Stored combustion tests, VIEW or DEL ALL
		Press to select line 2 value	
		Press and HOLD to select next record	
		Press to print record	
		Press and HOLD to exit to Sub Menu	
	PRESSURE	Press or buttons to select next record	Stored pressure tests, VIEW or DEL ALL
		Press to print record	
	EXCH	Press and Hold button to exit to Sub Menu	Stored Exch tests, VIEW or DEL ALL
		Press or buttons to select next record	
		Press to print record	
	TEMP	Press and Hold to exit to Sub Menu	Stored differential temperature tests, VIEW or DEL ALL
		Press or buttons to select next record	
	ROOM CO	button to exit to Sub Menu	Stored room CO tests, VIEW or DEL ALL
		Press or buttons to select next record	
		Press briefly to scroll through the measured values	
Press and Hold button to print record			
Press and Hold button to exit to Sub Menu			
SCREEN	EXIT		Returns to MAIN MENU
	CONTRAST	Press or buttons to select settings 00 - 20	Factory setting is 04
		Press or to scroll through Line 1 - Line 4 and EXIT	
		Press on the line you want to change	
		Press or to scroll through the values available	
		Press when the value you want is visible	
	Repeat for the other lines		
	Press or to scroll to EXIT		
	Press to return to the Sub Menu		
	HEADER	Press or to scroll through HEADER 1, HEADER2 and EXIT	Sets printout header, 2lines, 20 characters per line
Press on the line you want to change			
Press or to change text characters			
Press select the next text position			
Repeat for all lines needed			
Press to return to the Sub Menu			
EXIT		Returns to MAIN MENU	

DISPLAY GLOSSARY & ADDITIONAL NOTES

CO2	Carbon Dioxide
DT	Differential Temperature
Eff	Efficiency
X	Excess Air
O2	Oxygen
CO	Carbon Monoxide
Pp	Pressure Draft
P2	Pressure Differential Port
NO	Nitric Oxide

- Measured gases will display **--PO--** with the **pump is off**
- Calculated values will display **--O>--** with the **O2 level is greater than 18%** (values are calculated on fuel choice and O2 reading)
- Temperature values will display **--OC--** if the probe is not connected or open
Press and hold **PUMP** to zero the pressure sensor in selector positions that display measured and calculated values (**AUX & Flue Test**)
- Press and hold the **UP** button to select "Flue Test Pg. 1 or Pg. 2"

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