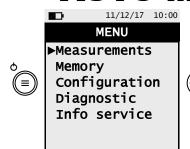
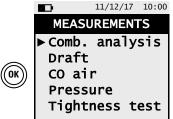
## 7. COMBUSTION ANALYSIS AUTO MODE





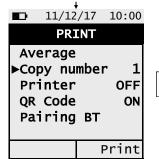
		/ 12/ 11	10.00
	AN.	SETTIN	GS
	►Mode Fuel	,	AUTO
(OK)	Inter		gas 1 s
	<b>Memor</b> Start	'y 	1/5
	Start		

11/12/17 10:00

11/1	2/17 10:00
ANALYS	IS [1/3]
Tf	190.1 C
та	15.4 C
02	4.2 %
CO	23 ppm
CO2	2.9 %
cor	р
Pause	1/3 1

Automatically saves the first sample when the set interval expires, and so on until the third sample.

	11/12/17	10:00
A۱	ERAGE [	1/3]
Tf	19	90.1 C
та	1	L5.4 C
02		4.2 %
co	2	23 ppm
C02		2.9 %
cor	-	р
		Print



Start



Scan the QR code using the <u>YJ</u>
<u>Combustion APP</u> to download
the acquired data related to
the average analyses and the
additional measures, if
performed.



For additional information, please scan the QR code to the left for the digital CA502 user manual or go to: www.yellowjacket.com.

Visit the app store to download the free "YJ Combustion" App.





**Print** 



# QUICK GUIDE CASO2



#### **FEATURES:**

- Combustion analysis in Auto or Manual Mode
- Calculation of stack heat loss and efficiency
- CO environment measurement
- · Measuring differential pressure
- Draft measurement
- Pressure measurement in the gas supply pipe
- Generation and display of a QR Code for downloading the data of the analyses
- Possibility to print on ticket the analyses and the performed measures with a Bluetooth® printer (optional)



The magnets in the back of the instrument can damage credit cards, hard drives, mechanical watches, pacemakers, defibrillators and other devices proven sensitive to magnetic fields. It is recommended to keep the instrument at a distance of at least 10" away from any of these devices.

#### **KEYBOARD FUNCTIONS**

KEYS	FUNCTION
<b>^</b>	Activate the context keys shown on the display.
o I	Turns on and off the instrument.  - If pressed briefly, accesses the instrument menu.  - If pressed for at least 2 seconds, turns off the instrument.
(ESC)	Exits the current screen.
(OK)	Confirm settings.
^ < >	Select and/or Modify.

#### **CONTEXT KEYS**

CONTEXT KEY	FUNCTION
Save	Saves the data in the instrument memory.
Print	Display the printing options screen and consequently execute it.
Delete	From the main screen erase the memory. From every measure or analysis screen, erase the single data.
Keep	Proceed with the combustion analysis.
Repeat	Repeat the autozero phase.



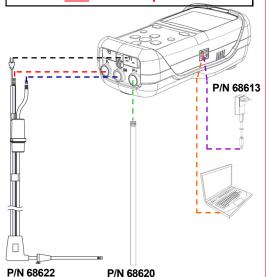
- Before starting the combustion analysis, select the utilized fuel.
- If it is desired to print the ticket of the average analyses and the additional measures enable the printer in the "PRINT" menu.
- If it is desired to print the complete analysis and the performed measures, it will be necessary to enter the memory menu "MEMORY," select the related memory number and push the "PRINT" interactive function button.
- To download the data of the single performed analyses, it's necessary to enter the "MEMORY" menu, select
  the memory number used to save the analyses and the measures and select one at a time the single rows.

# USING THE FLUE



When conducting measurements, the water trap/filter assembly MUST be in a VERTICAL position to prevent damage from moisture & particles to sensors.

 When testing is completed, always drain the water trap.



P/N	DESCRIPTION		
68601	Combustion Analyzer (CA502)		
68602	Combustion Analyzer with Printer (CA502P)		
68611	Combustion Analyzer Printer		
OPTION	OPTIONAL ACCESSORY		
68620	Combustion Analyzer Manometer Hose		
REPLA	CEMENT PARTS		
68612	Combustion Analyzer Filters 5 PK		
68613	Combustion Analyzer AC Charger Kit		
68614	Combustion Analyzer USB Cable for Charge		
68615	Combustion Analyzer Carrying Case		
68616	Combustion Analyzer Printer Paper 5 PK		
68617	Combustion Analyzer Water Trap ASM		
68618	Combustion Analyzer O-Ring for Water Trap		
68619	Combustion Analyzer 02 Sensor		
68621	Combustion Analyzer POSG Cone for Probe		
68622	Combustion Analyzer Flue Gas Probe		
68623	Combustion Analyzer Battery		
68624	Combustion Analyzer Rubber Probe Cover		



- Before switching on the instrument, insert the Tc-K connector of the smoke probe to the instrument for primary air acquisition.
- Perform the Zero phase of the instrument in fresh clean air.
- When the Zero phase is over, push the button related to the interactive function "Keep" to store the acquired temperature value.





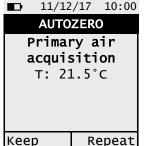
**Keep pressed** for a few seconds



11/12/17 10:00 **AUTOZERO** 

60

Primary air acquisition



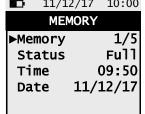


## **Menu**→**Memory**

Select

Date

Select



11/12/17 10:00 **Procedure to set the** memory number where it will be possible to store the analyses/measures







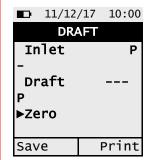


11/12/17 10:00 **MEMORY** 1/5 **►**Memory Full. **Status** Time 09:50 11/12/17

Procedure to visualize the content of a memory

Select

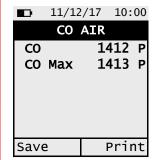
#### Menu→Measurements→Draft



## **Procedure to Perform the Draft Measure**ment:

- Perform the Zero phase of the pressure sensor: Select "Zero" => push.
- Connect the pressure output of the probe with the P- inlet of the instrument.
- Insert the tip of the smoke probe in the stack.

Menu→Measurements→CO air



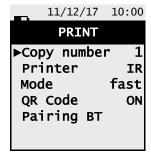


It is compulsory to perform the Zero phase in clean air, so that the environment CO measurement results correct. It is

advisable to turn on the instrument and wait for the Zero phase completion outside the area where the test is being performed.



## $Menu \rightarrow Configuration \rightarrow Print$



#### **Ticket Print**

Set the parameter "Copy number" Set the parameter "printer" on BT or IR Only if the printer is set on IR:

Set the parameter "Mode" on fast or slow

Only if the printer is set on BT: Associate the instrument to the BT printer through the

parameter Pairing BT (only for the first time)

## **QR Code Generation**

Set the parameter "QR code" on ON