

290 AND 295 12V EMISSION ANALYSERS

The 290 and 295 12V emission analysers are portable, 12V dc powered analysers specifically designed for roadside use in conditions where mains power is not readily available. Power is derived by means of leads, which clip to a suitable vehicle battery. Operating voltage is 12V nominal though the analysers are designed to work over a large voltage range (typically 9 – 24V) to accommodate both cranking and charging conditions. The analysers are also reverse polarity protected.

CRYPTON DOES NOT RECOMMEND THE USE OF THESE ANALYSERS FOR 'ON ROAD LOADED TESTING' WHERE THE UNIT IS PLACED INSIDE THE VEHICLE AND THEN 'DRIVEN UP THE ROAD'.

CRYPTON WILL NOT ACCEPT ANY RESPONSIBILITY FOR DAMAGE/INJURY TO THE EQUIPMENT, VEHICLE, OPERATOR OR ANY THIRD PARTIES RESULTING FROM THE ANALYSER BEING USED IN THIS MANNER.

CONNECTIONS AND CONTROLS

External Connections

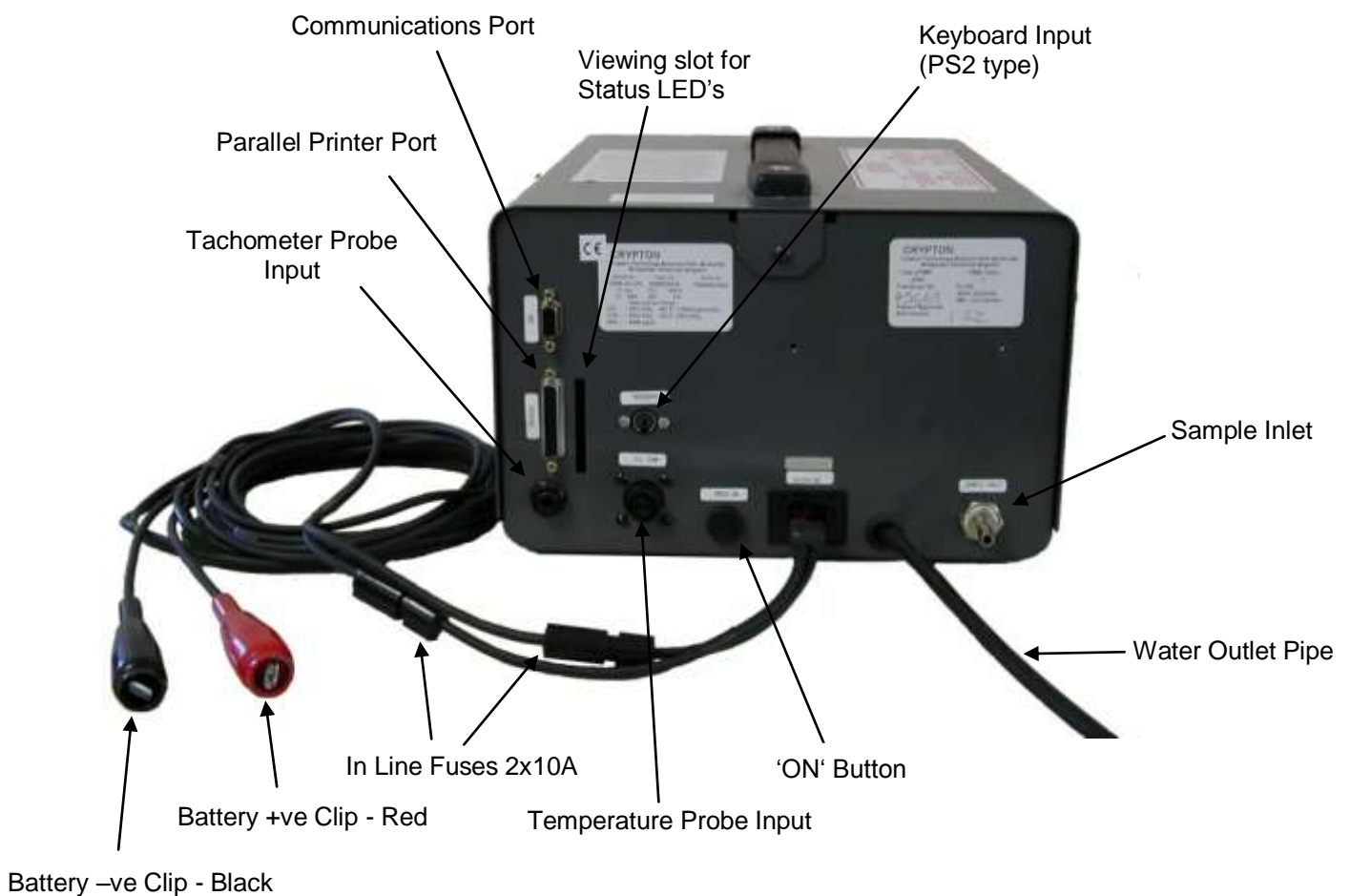


FIG 1. External Connections

Controls

With the exception of the time/date setting, day to day operation of the 12V 290 and 295 is identical to the 'mains powered' version. Please refer to the **Controls** section on page 5 of the 290 manual. The time/date setting of the 12V can be achieved by either plugging a keyboard with a PS2 connector into the appropriate socket on the back of the analyser or by using the soft keys on the front as follows:-

1. From readings screen select MAIN MENU.
The menu screen will be displayed as shown.

--> READINGS	VERSION	MAIN MENU	V 1.22
--> SET UP		PPM	PEF
--> LEAK TEST		800	0.496
--> AUTO ZERO		2000	0.486
--> HC RESIDUE TEST		4000	0.475
--> VEHICLE DATA			
--> GAS CALIBRATION			10:57:44 02/04/98

2. From MAIN MENU select SET UP
followed by TIME/DATE

--> READINGS	SET UP
--> MAIN MENU	
--> AFR	X
--> TIME/DATE	
--> PRINTER	
--> HOST ENGINE ANALYSER	CMT
--> NO _x SENSOR	
--> INSTALL NEW O2 SENSOR	

3. Ensure the SUMMER-TIME/WINTER-TIME setting is correct using F7.
Select ENTER NEW DATE.

--> READINGS	TIME/DATE
--> MAIN MENU	
DATE	2/04/98
TIME	14: 53: 07
--> ENTER NEW DATE	(DDMMYY)
--> ENTER NEW TIME	(HHMMSS)
--> SUMMER-TIME CURRENTLY SELECTED	
--> PRESS WHEN DONE	

4. The ENTER NEW DATE will start to flash, along with the symbol <N> next to the F3 key, OK next to F4 and the date format with cursor on the right hand side of the screen. The F3 key can now be used to scroll around Numbers 0 – 9 and \downarrow . These will appear to the right of the <N> symbol. When the correct Number is obtained press F4 for OK. The Flashing cursor will then move on to the next Number. When the correct date is obtained, Scroll around to the \downarrow symbol. Press F4 for OK. The date will then be entered. The same procedure is used for the Time. When both the Time and Date have been entered correctly select PRESS WHEN DONE. Time/Date setting is now complete.

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--> READINGS                TIME/DATE
--> MAIN MENU
<N>   DATE                2/04/98   _ / /
OK    TIME                14: 53: 07
--> ENTER NEW DATE          (DDMMYY)
--> ENTER NEW TIME          (HHMMSS)
--> SUMMER-TIME CURRENTLY SELECTED
--> PRESS WHEN DONE

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Pneumatics/Filtration System

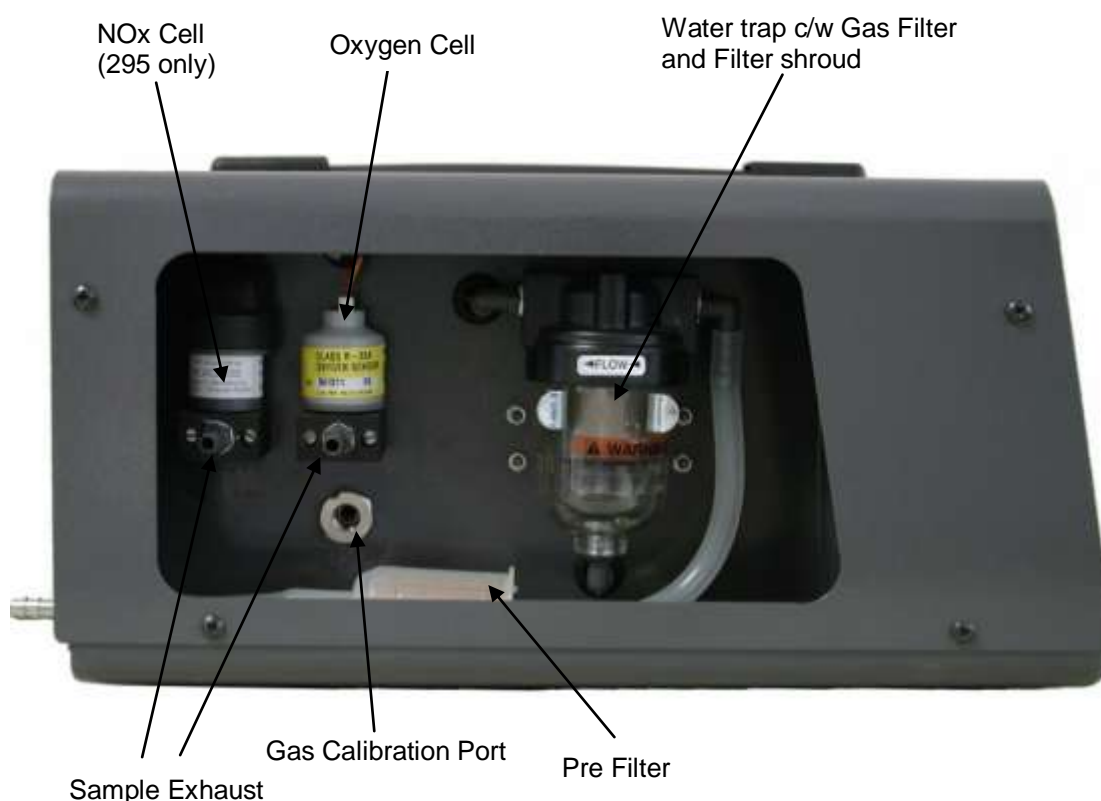


FIG 2. Pneumatics

For filter servicing please refer to the **Servicing Filters** section on page 15 of the 290 operating manual.

IMPORTANT - AFTER SERVICING FILTERS

**WHEN REPLACING THE WATER TRAP, ENSURE THAT NONE OF THE PIPES ARE KINKED OR TRAPPED AGAINST THE PANEL OF THE UNIT, PARTICULARLY THE WATER REMOVAL PIPE AT THE BOTTOM OF THE BOWL.
FAILURE TO OBSERVE THIS CAN RESULT IN SERIOUS DAMAGE TO THE ANALYSER.**

CONSUMABLE SPARES

The following parts can be ordered by contacting the Crypton Product Support Helpline on 01278 436225, quoting the part numbers below, or through our authorised agent, **TRANSERVICE**.

Sample Hose And Probe	SP10
Sample Probe only (flexible)	SP8X
Oxygen cell	TRDU0067
NOx Cell (295 only)	TRDU0103
Prefilter	FILT0043
Gas Filter	FILT0040
Filter Shroud	DL08314

TECHNICAL SPECIFICATIONS

For Accuracy, Performance and Environmental specifications, please refer to the **TECHNICAL SPECIFICATIONS** section on page 18 of the 290 manual.

Power Requirements

12 Volts DC Nominal.

Power Consumption

60 Watts Maximum

Size

277mm (11") W x 355mm (14") D x 178mm (7") H

Weight

7.5Kg