Electronic Digital Ballast (300W → 1000W)

Functions accessible via EL1008476 display card:

View/Show:

- Ballast power-on time (Hours and minutes)
- Lamp power-on time (Hours and minutes) and number of power-on Cycles
- Lamp voltage, current and instantaneous power
- Temperature (PFC and DC-DC section)
- Software version

Edit/Modify:

- Nominal power
- DMX address
- Remote ID
- Password
- Switching Lamp status ON/OFF
- Software updates
- Output frequency

Menu path:

ENTER →			← MENU		
TIME Power on times	H.tot POH (total power on hours) ballast				
	M.tot POM (total power on minutes) ballast				+ ↓
	H. LAM POH (total power on hours) Lamp				
	M.LAM POM (total power on minutes) Lamp				
	Acc.L Lamp ignition number				↑ -
	CL.L.V. Reset (only Lamp POH and ignition number)	Y.CLr Confirm reset	Hold **C.MEM**(1) for 1 second to confirm		
	C.Ser. View/reset maintenance time (hours)	xxxx Hours since last maintenance	Y.CLr Confirm reset	Hold **C.MEM**(1) for 1 second to confirm	

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ENTER →			← MENU		
Mon.b. Ballast Monitoring	P.out Nominal Power value	xxxx Istantaneous Power value	r.xxx Changing Nominal value(2)		+ ↓
	V.out Nominal Voltage value	xxxx Istantaneous Voltage value			
	I.out Nominal Current value	xxxx Istantaneous Current value			
	t.PFC PFC Temperature	xxxx Istantaneous PFC Temperature value	M.P.xx PFC max Temperature		
	t.dCd DC/DC Temperature	xxxx Istantaneous DC/DC Temperature value	M.d.xx DC/DC max Temperature		
	SEC.n Insert password	0 Entering the password	Press **ENTER** key to confirm	If password OK, "ATTE" blinks	
	rEM View/Change "Remoto" accessory ID	1 Select Remote Identification Number	Press **ENTER** key to confirm(3)		
	r.VAL(4) Reset to Default	Y.rEC Confirm Reset	Hold **C.MEM**(1) for 1 second to confirm(3)		
	doun(4) Download software	SurE	Press **C.MEM**(1) key to confirm(3)		
	uPLo(4) Upload software	SurE	Press **C.MEM**(1) key to confirm(3)		
	C. PS(4) Change password	xxxx Insert New password	Press **ENTER** key to confirm		
	F.out(4) Change Output signal frequency	F.xxx Current Frequency	Y.xxx Set Frequency (78Hz → 195Hz)	Press **ENTER** key to confirm	↑ '
	Ad.dM Change DMX Address	A001 Select DMX Address	Press **ENTER** key to confirm		

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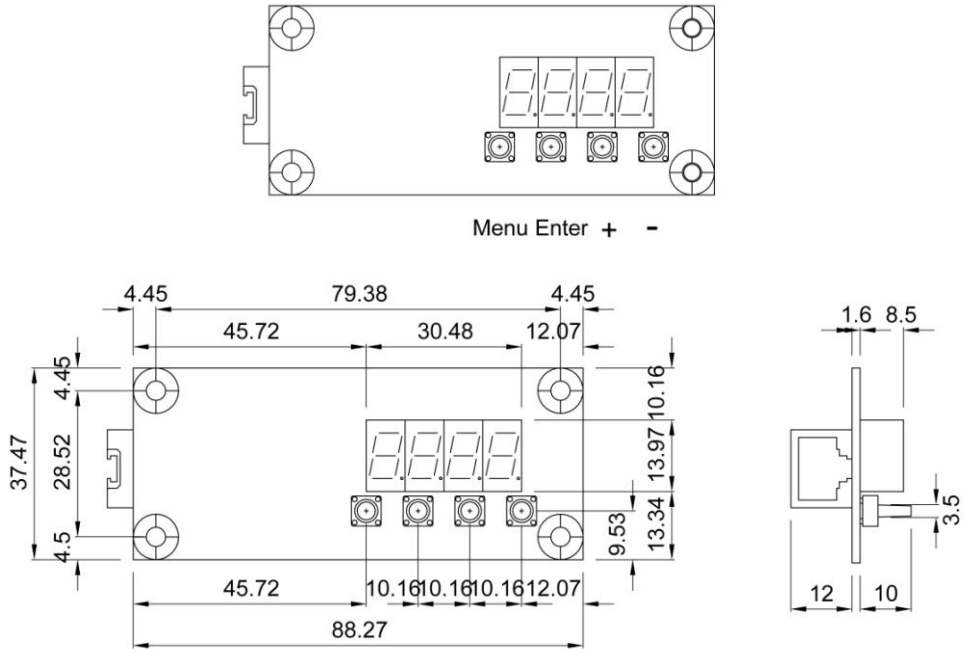
ENTER →			← MENU		
LAMP	L.off Lamp OFF		Press **ENTER** key to confirm		+ ↓
	L.on Lamp ON		Press **ENTER** key to confirm		
VErS	xx.xx Software Version				↑ -

(1) **C.MEM** is the combination of the following keys: "**ENTER**" and "**—**" simultaneously pressed.
(2) It is possible to change the output power only after the lamp has reached its full Power output steady-state condition. The Start-UP time is approximately 1.5 minutes, after which it is possible to dim the power between the maximum value and the "half-power" value.
(3) Access or confirmation is allowed only when the ballast is in stand-by mode.
(4) The functions **highlighted with red colour** are accessible only by entering the password (via the "SEC.n" menu). The default value is "**0**" ; this can be set by using the menu "C. PS" and the available range of values is between "0" and "9999".

Keys Layout and general dimensions:



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Ballast functions accessible from DMX:

It is possible to control the ballast via the DMX signal. 4 channels are required for management:

DMX channel	Function	Control type	Effect	Range (decimal)	Range (percentage)
1	Lamp ON/OFF	step	Lamp OFF	0 ÷ 128	0 ÷ 50
		step	Lamp ON	129 ÷ 255	51 ÷ 100
2	Dimmer	step	No effect	0 ÷ 4	0 ÷ 1
		proportional	Dimmer from max to Half-power	5 ÷ 255	2 ÷ 100
3	Strobe	step	No effect	0 ÷ 4	0 ÷ 1
		proportional	Strobe frequency from 6.5 to 35 Hz	5 ÷ 255	2 ÷ 100
4	Fade	step	No effect	0 ÷ 4	0 ÷ 1
		proportional	Fade Time from 13 s to 120 ms	5 ÷ 255	2 ÷ 100

Ballast internal LED and Alarm messages:

Different internal LED colours are used to indicate the various Ballast operating conditions, and - whenever possible - a status or alarm message is shown on the display. In particular:

Display	Internal LED	Status / Alarm	Description # Action
Off	Green	Power supply OK	Ballast power-supply is correct; Lamp OFF
On	Cyan	Lamp ON	Ballast power-supply is correct; Lamp ON
tdC.E	Yellow	Temperature protection mode	(DC-DC) output section exceeding the temperature limit # Check fan(s) status
tPF.E	Yellow	Temperature protection mode	(PFC) input section exceeding the temperature limit # Check fan(s) status
I.Err	Red	Short circuit	Output short circuit # Check the status of: output wiring, ignitor and lamp
Vin.E	Red	Mains voltage lower than 85Vac / Voltage dips	Ballast supplied with a mains voltage lower than 85Vac or in case of voltage dips (t>30ms). The ballast will automatically reset when the mains voltage is within nominal/allowed range
V.Err	White	Lamp Disconnection	Broken/faulty lamp or Ignitor or wiring problem # Check the system status and/or its integrity
F.Acc	Yellow	Exceeded Ignition limit No.	The maximum number (20) of lamp ignition attempts, has been exceeded # Check the system status and double-check the ignitor. The problem could be related to the lamp's temperature. Wait for the lamp to cool-down and retry the ignition.
C.Ser.	Yellow	Maintenance / Cleaning	The System is Exceeding the Maximum advised number of hours of usage # Maintenance/cleaning of the Ballast is recommended. The alarm message can be reset via the menu Time → C.Ser.

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Notes:

When the ballast is set in the "L. on" position, it makes a 10 seconds ignition attempt, at regular intervals, every 50 seconds. If the lamp does not light up, (e.g. due to temperature), these attempts are repeated up to a maximum of 20 times. If at the end of these attempts the lamp still does not turn on, the ballast interrupts the cycle and the wording "F.Acc" will appear on the display.
In the case of sudden disconnection of the lamp (on), the message "V.Err" will appear on the display; the ballast will automatically try to restart the lamp up to a maximum of 20 attempts, starting from the last previously counted ignition attempt.
The number of ignition attempts is automatically reset by removing the power from the ballast.
When the lamp power-ON hours (POH) counter exceeds the 900 hours threshold (for the lamp, not the ballast), the alarm message "C.Ser." (Clean Service) will appear on the display. While continuing to operate without any restriction, the ballast will keep displaying this message until acknowledged and cleared through the appropriate menu.
Through the same menu it is possible to check the total number of hours since last maintenance.
Once reset, the counter will restart from “0”.

Contacts:

For any further information, detail or clarification, please get in touch with : ELETTROLAB S.r.l. info@elettrolab.it

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