



Read this document carefully before using this device. The guarantee will be expired by damaging of the device if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

## ENDA ECC731 CURRENT CONTROLLER

Thank you for choosing ENDA ECC731 CURRENT CONTROLLER.

- \* 72x72mm sized.
- \* 3 digits display.
- \* Relay out for alarm.
- \* Proportional controlled output.
- \* Lower and upper limit of Set values can be configured.
- \* Alarm hysteresis value can be adjusted between 0.1-2.0A.
- \* Alarm, can be adjusted below the set value and above the set value.
- \* CE marked according to European Norms.



Order Code : ECC731-230VAC



R<sup>HS</sup>  
Compliant

### TECHNICAL SPECIFICATIONS

ENVIRONMENTAL CONDITIONS	
Ambient/storage temperature	0 ... +50°C/-25 ... +70°C (with no icing)
Max. relative humidity	80% up to 31°C decreasing linearly 50% at 40°C.
Rated pollution degree	According to EN 60529 Front panel : IP65 Rear panel : IP20
Height	Max. 2000m

Do not use the device in locations subject to corrosive and flammable gases.

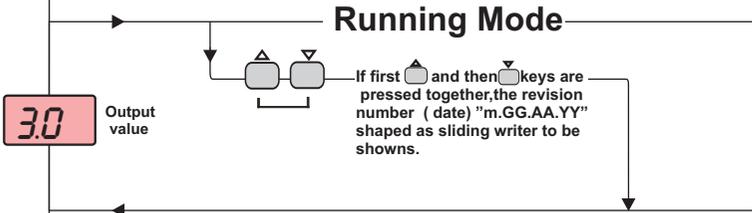
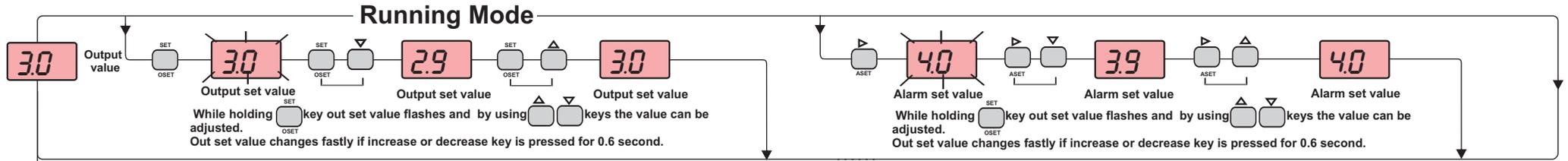
ELECTRICAL CHARACTERISTICS	
Supply	230V AC +%10 -%20
Power consumption	Max. 7VA (Without connecting a load to the output.)
Output	0-10A AC (The load must be connect maximum 3000W.)
Accuracy	± 0.6A
Sensibility	0.1A
Connection	2.5mm <sup>2</sup> screw-terminal connections
Date retention	EEPROM (Min.10 years)
EMC	EN 61326-1: 2006
Safety requirements	EN 61010-1: 2010 (pollution degree 2, overvoltage category II, measurement category I) ECC731 must not be used in location where measurement category is II, III or IV.

OUTPUTS	
Output	Triac: 230V AC, 10A
Alarm	Relay: 250V AC, 8A ( for resistive load), NO+NC
Life expectancy for relay	Mechanical 30.000.000 operation;100.000 operation at 250V AC,8A resistive load.

CONTROL	
Control type	Single set-point and alarm control
Alarm control method	On-Off control
Alarm hysteresis	Adjustable between 0.1...2.0A
Output control method	Proportional control.

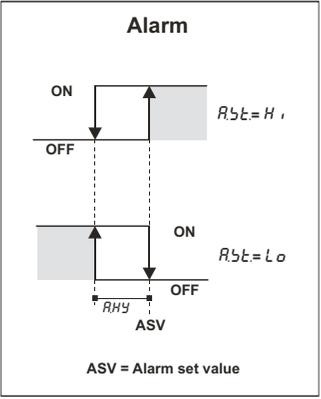
HOUSING	
Housing type	Suitable for flush-panel mounting according to DIN 43 700.
Dimensions	W72xH72xD97mm
Weight	Approx. 350g (after packaging)
Enclosure material	Self extinguishing plastics.

While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.

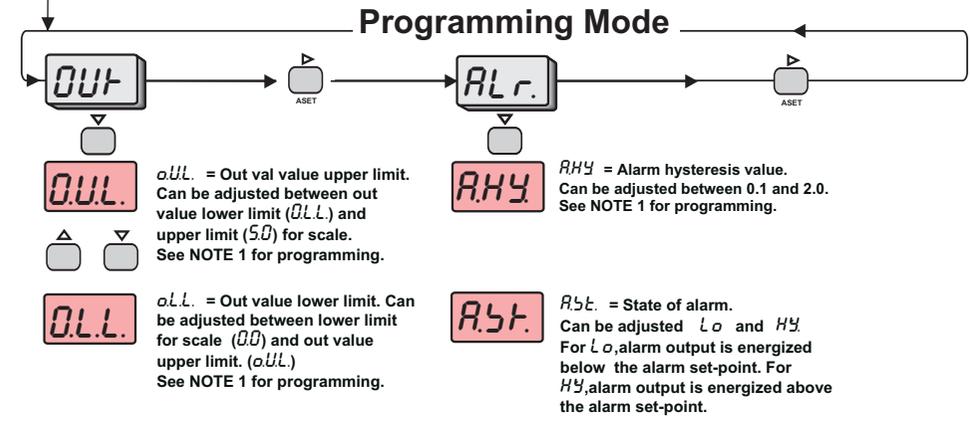


#### Running mode error message

If the output current is be higher 11A, the device is gives of this message.



If first and then keys are pressed together programming mode is entered.



#### NOT 1 Modification of parameter diagram

While holding key out set value flashes and by using keys the value can be adjusted.

If increment key is pressed and held 0.6 seconds the value of the selected parameter changes rapidly.

# TERMS

1) Shows the alarm status.  
 2) Shows the output value. (Running mode)  
 Shows parameter name, parameter value and unit of parameters. ( programming mode)  
 3) Increasing the value or parameter selection key. (Programming mode)  
 4) Decreasing the value or parameter selection key. (Programming mode)  
 5) Shows the alarm set value. ( Running mode)  
 Menu selection key. (Programming mode)  
 6) Shows the output set value. (Running mode)  
 Parameter adjustment key. (Programming mode)

( 1 ) Alarm LED	3mm bright red LED
( 2 ) Digital display	3 digits 7 segment red LED display
Character height	14.2mm
( 3 ),( 4 ),( 5 ),( 6 ) Key pad	Micro switch

## DIMENSIONS

**Depth**  
97mm

**Panel cut-out**  
75mm

84mm

68<sup>+0.7</sup> mm

68<sup>+0.7</sup> mm

**Connection cables**

For removing mounting clamps:

- Push the flush-mounting clamp in direction 1 as shown in the figure left.
- Then, pull out the clamp in direction 2.

Note 1) While panel mounting, additional distance required for connection cables should be considered.  
 2) Panel thickness should be maximum 10mm.  
 3) If there is no 90mm free space at back side of the device, it would be difficult to remove it from the panel.

## CONNECTION DIAGRAM



ENDA ECC731 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of energy. While the device works, on the connection cables must not be changes.

- 11. klemens tip must be empty.
- 12. and 13. klemens tips must not be short circuit. The device must not be operated without connecting a load to the output. The load must not be connect maximum 1500W to the output. On the network and load tips while the connection be done, wires of phase and neutral must be connect to the true places.

11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20

OUT  
 AC 230V 10A

230V AC  
 +10% -20%  
 50/60Hz 7VA

ALARM  
 AC 250V 8A  
 RESISTIVE LOAD

CE  
 Made in Turkey

8 16804071701704

ENDA INDUSTRIAL ELECTRONICS  
 ECC731-230VAC  
 CURRENT CONTROLLER  
 SN: XXXXXXXX

**NOTE :**  
**SUPPLY :**

184-253V AC 19  
 50/60Hz 7VA 14

Fuse  
 F 100 mA  
 250V AC

Switch

230V AC  
 Supply

Fuse should be connected

Cable size: 1,5mm<sup>2</sup>

Holding screw  
 0.4-0.5Nm

Note : 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.  
 2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.