8. Specifications

:76mm x 34.5mm x 71mm plastic housing for panel Mounting. Panel cut-out is 71x29mm.: NEMA 4X(IP65 at front, IP20 at rear).

Protection Class : Approximately 0.20 Kg.

Weight Environmental Ratings Standard, indoor at an altitude of less than 2000 meters with none condensing humidity.

Storage / Operating Temperature : -30 °C to +80 °C / -20 °C to + 70 °C

Storage / Operating Humidity
Installation : 90 % max. (None condensing)

Overvoltage Category II,office or workplace, none conductive pollution

Pollution Degree
Operating Conditions : Continuous Supply Voltage and Power : 230V~ (±%15) 50/60Hz - 1.5VA,

115 V~ (±%15) 50/60Hz - 1.5VA,

24V~(±%15) 50/60Hz - 1.5VA,10...30V ===1.5W

100...240V ~ (%15;+%10) 50/60Hz

Sampling Cycle : According to parameter value

Accuracy

: AC and RMS 0 - 9999 DC (-1999) - 9999

Input impedance : 20mΩ

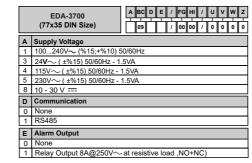
Control Form

. 2011Ω : ON / OFF : 8A@250V for Resistive load (Alarm output) Relay Outputs (Electrical life: 100.000 switching at full load)

14 mm Red 4 digits LED Display : AC(Red), DC(Red), Alarm (Red), Program(Green)

:ERE C€ Approvals

9. Ordering Information



All order information of EDA-3700 AC/DC Ammetre are given on the table at left. User may form appropriate device configuration from information and codes that at the table and convert it to the ordering codes. Firstly, supply voltage then other specifications must be determined. Please fill the order code blanks according to your needs.

Please contact us, if your needs are out of the standards.

Before commissioning the device, parameters must be set in accordance with desired use. Incomplete or incorrect configurations can cause dangerous situations.



Thank you very much for your preference to use Emko Elektronik products, please visit ou r Technology Partner web page to download detailed user manual. www.emkoelektronik.com.tr **BEMKO**

AC / DC Ammeter

SIZE

N O

77×35 I

EDA-3700



EDA-3700 x 35 DIN Size Programmable AC / DC Ammeter

- 4 digits display
 Easily changeable from front panel
 5A or 60 mV AC, DC, AC/DC input
- Programmable scale from 5A to 9999A
- Password protection for programming mode
- Remote access,data collecting and controlling with Modbus RTU - AC, DC or True RMS measuring feature
- Having CE mark according to European Norms

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recommended before installation. It is your responsibility to ensure that qualified mechanical and electrical technicians install this product.

If there is danger of serious accident resulting from a failure or defect in this unit, power off

The unit is normally supplied without a power supply switch or a fuse. Use power switch and

Be sure to use the rated power supply voltage to protect the unit against damage and to Keep the power off until all of the wiring is completed so that electric shock and trouble with

Never attempt to disassemble, modify or repair this unit. Tampering with the unit may results

Do not use the unit in combustible or explosive gaseous atmospheres. During putting equipment in hole on the metal panel while mechanical installation some metal

burrs can cause injury on hands, you must be careful.

Montage of the product on a system must be done with it's fixing clamps. Do not do the montage of the device with inappropriate fixing clamp. Be sure that device will not fall while

It is your responsibility if this equipment is used in a manner not specified in this instruction

1.3 Warranty

EMKO Elektronik warrants that the equipment delivered is free from defects in material and workmanship. This warranty is provided for a period of two years. The warranty period starts from the delivery date. This warranty is in force if duty and responsibilities which are determined in warranty document and instruction manual performs by the customer completely.

1.4 Maintenance

Repairs should only be performed by trained and specialized personnel. Cut power to the device before accessing internal parts.

Do not clean the case with hydrocarbon-based solvents (Petrol, Trichlorethylene etc.). Use of these solvents can reduce the mechanical reliability of the device. Use a cloth dampened in ethyl alcohol or water to clean the external plastic case.

1.5 Manufacturer Company

Manufacturer Company Name: Emko Elektronik A.S. DOSAB Karanfil Sk.No:6 16369 BURSA/TURKEY Phone:+90 224 261 19 00

Fax: +90 224 261 19 12
Repair and maintenance service information:
Emko Elektronik Sanayi ve Ticaret A.Ş.

Demirtaş Organize Sanayi Bölgesi Karanfil Sk.No:6 16369 BURSA/TURKEY

Phone:+90 224 261 19 00 Fax :+90 224 261 19 12



Operating Temperature : 0 to 50 °C



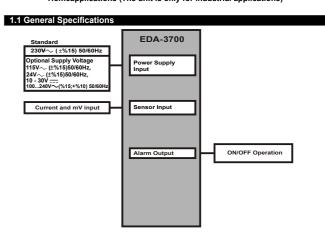
Max. Operating Humidity: %90 Rh (Yoğunlaşma olmaksızın) : Up to 2000 m.

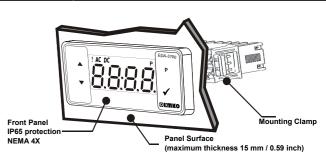


Forbidden Conditions



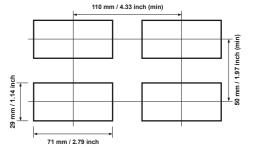
Homeapplications (The unit is only for industrial applications)





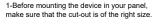
2.1 Front View and Dimensions of EDA-3700 AC/DC Ammeter aksimum 15 mm / 0.59 inch 8.8.8.8 65 mm / 2.56 inch 76 mm / 3 inch

2.2 Panel Cut-Out









2-Insert the device through the cut-out. If the mounting clamps are on the unit, put out them before inserting the unit to the panel.



that located left and right sides of device and make the unit completely immobile within the panel

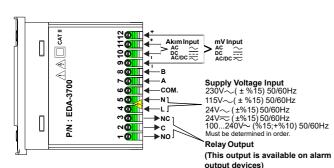


1-Pull mounting clamps from left and right fixing

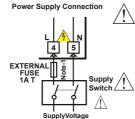
2-Pull the unit through the front side of the panel

Before starting to remove the unit from panel, power off the unit and the related

3. Electrical Wiring Diagram



3.1 Supply Voltage Input Connection of the Device



Make sure that the power supply voltage is the same indicated on the instrument.
Switch on the power supply only after that all the electrical connections have been completed.
Supply voltage range must be determined in order. While installing the unit, supply voltage range must be controlledand appropriate supply voltage must be

There is no power supply switch on the device. So a power supply switch must be added to the supply voltage input. Power switch must be two poled for seperating phase and neutral, On/Off condition of power supply switch is very mportant in electrical connect

External fuse that on \sim power supply inputs must be on External fuse that on === power supply inputs must be on

24V~(±%15) 50/60Hz

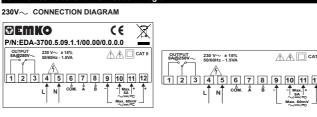
10...30 V == -1.5 W 100...240V~ (%15;+%10) 50/60Hz Must be determined in order

230V~(±%15)50/60Hz

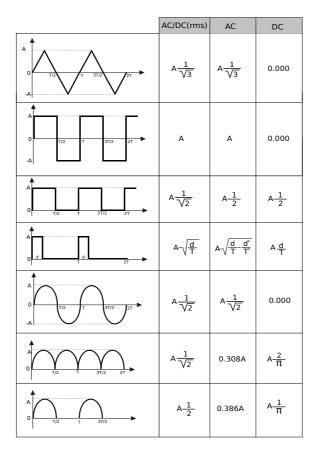
115V~(±%15)50/60Hz

Note-1:External fuse is recommended

3.2 Device Label and Connection Diagram



5.1 Operations Graphics of EDA-3700 AC/DC Ammetre

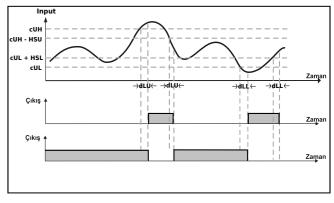


5.2 EDA-3700 AC/dC Ampermetre Cihazı Alarm Çalışma Grafikleri

Low Limit Alarm On Delay Time Parameter ☐ ☐ L L ≥ 1

Alarm Set Value Low Limit Parameter

Alarm Set Value Up Limit Parameter



4.Front Panel Definition and Accessing to the Menus



BUTTON DEFINITIONS1.

1. Increment Button:

** It is used to increase the value in the Programming mode 2. Decrement Button:

** It is used to decrease the value in the Programming mode.

3. Program Button: ** To access the programming screen; in the main operation screen, press this button for 5 seconds

4. Enter Button:

It is used to saving value in the programming screen.

LED DEFINITIONS

5. Alarm Output Led:

** The led is active when the alarm relay is active.

6. AC Measurement Led:

** The led is active when the measurement method AC is selected.

7. DC Measurement Led:

** The led is active when the measurement method DC is selected ** If AC / DC is selected, AC and DC will be active at the same time.

8. Program led: ** Blinks in programming mode

5. Programming Mode Parameter List



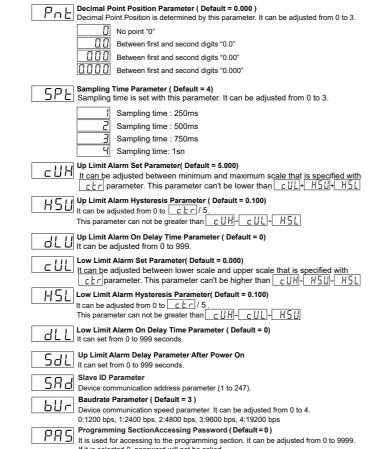
Current conversion ratio parameter (Default = 5)

It can be set from 5 to 9999. If this parameter is changed, these parameters (C UH), C UL, H5U, H5U), H5U) must be updated again.

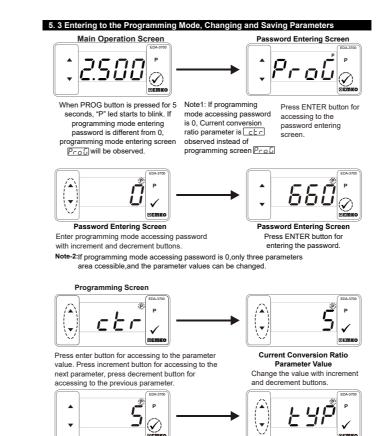
Measurement Metod Parameter(Default = AC/dC)
Can be set to AC, DC, AC/DC.

R [Measurement method is AC. Measurement method is DC.

Measurement method is AC/DC.



If it is selected 0, password will not be asked.



Parameter Value

Press enter button for saving the

ioperation screen automatically.

parameter.

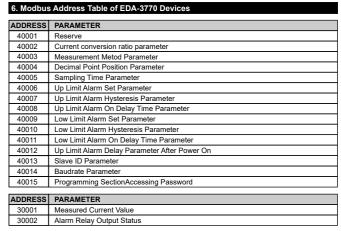
Measurement Method Parameter

Press increment button for accessing to the

next parameter, press decrement button for

accessing to the previous parameter

If no operation is performed in programming mode for 20 seconds, device turns to main



7. Monitoring of Software Revision of EDA-3700 Devices

When the AC / DC ammeter is energized, firstly the revision number of the software is displayed to the user.



7.1 Error Messages on EDA-3700 AC / DC Ammeter



When the measured current value exceeds the upper scale, "nnnn" and "9999" are alternately displayed on the screen.



When the measured current value exceeds the subscale. "uuuu" and "-1999" are alternately displayed on the screen.