7. Specifications Device Type

Housing & Mou Protection Class

Weight Environmental Ratings

Storage / Operating Temperature Storage / Operating Humidity Installation Overvoltage Category Pollution Degree Operating Conditions Supply Voltage and Power

Sampling Cycle Accuracy Scale

Input impedance

Control Form Relay Outputs

Display LED

Approvals

	.AC/DC AITIMETER
	:76mm x 34.5mm x 71mm plastic housing for panel Mounting. Panel cut-out is 71x29mm.
	Approximately 0.20 Kg
	. Approximately 0.20 Kg.
	Standard, indoor at an altitude of less than 2000 meters
	with none condensing humidity.
•	: -30 °C to +80 °C / -20 °C to + 70 °C
	: 90 % max. (None condensing)
	: Fixed installation
	: II.
	: II,office or workplace, none conductive pollution
	: Continuous
	: 230V~ (±%15) 50/60Hz - 1.5VA,
	115 V~ (±%15) 50/60Hz - 1.5VA,
	24V~(+%15) 50/60Hz - 1.5VA 1030V == 1.5W
	According to parameter value
	· +%1
	AC and RMS 0 - 9999
	DC (-1999) - 9999
	· 20m0
	1Κ2Ω
	: ON / OFF
	: 8A@250V~for Resistive load (Alarm output)
	(Electrical life : 100.000 switching at full load)
	: 14 mm Red 4 digits LED Display
	: AC(Red), DC(Red), Alarm (Red), Program (Green)
	HI CE

8. Ordering Info	ormat	ion
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	EDA-3700 (77x35 DIN Size)
Α	Supply Voltage
3	24V~ (±%15) 50/60Hz - 1.5VA
4	115V~(±%15) 50/60Hz - 1.5VA
5	230V~ (±%15) 50/60Hz - 1.5VA
8	10 - 30 V ===
D	Communication
0	None
1	RS485
Е	Alarm Output
0	None
1	Relay Output 8A@250V~ at resistive load ,NO+NC)

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

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







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
- Alarm parameters
- 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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1.2 Installation

SIZE

NID

77×35

EDA-3700

A visual inspection of this product for possible damage occurred during shipment 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 system and separate the electrical connection of the device from the system

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

Be sure to use the rated power supply voltage to protect the unit against damage and to prevent failure.

Keep the power off until all of the wiring is completed so that electric shock and trouble with the unit can be prevented.

Never attempt to disassemble, modify or repair this unit. Tampering with the unit may results in malfunction, electric shock or fire.

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 doing the montage.

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

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)

Altitude

: Up to 2000 m.

Forbidden Conditions: Corrosive atmosphere Explosive atmosphe

Homeapplications (The unit is only for industrial applications)

1.1 General Specifications



2. General Description





1-Before mounting the device in your panel.

make sure that the cut-out is of the right size.



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

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.

2.4 Removing from the Panel



1-Pull mounting clamps from left and right fixing sockets 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 <u>/!\</u>





Power Supply Connection

3.1 Supply Voltage Input Connection of the Device



3.2 Device Label and Connection Diagram



5.1 Operations Graphics of EDA-3700 AC/DC Ammetre



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) $\begin{array}{c} \textbf{Current conversion ratio parameter (Secan - 9)} \\ \text{It can be set from 5 to 9999. If this parameter is changed, these parameters} \\ (\underline{CUH}, \underline{CUL}, \underline{HSU}, \underline{HSU}), \underline{HSL}) \text{ must be updated again.} \end{array}$

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

- - R [Measurement method is AC.
 - Measurement method is DC. 96 R Cd C Measurement method is AC/DC.



5. 3 Entering to the Programming Mode, Changing and Saving Parameters



seconds, "P" led starts to blink. If programming mode entering ssword is different from 0, programming mode entering screen observed instead of Pro [] will be observed.

is 0, Current conversion ratio parameter is <u>ctr</u> programming screen ProD

accessing to the password entering screen.

U 🗸 Password Entering Screen

Enter programming mode accessing password



Passwo ord Entering Screen Press ENTER button for entering the password

with increment and decrement buttons. Note-2: If programming mode accessing password is 0, only three parameters

area ccessible, and the parameter values can be changed.





Parameter Value Change the value with increment and decrement buttons



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Current Conversion Ratio Parameter Value Press enter button for saving the 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 (i) ioperation screen automatically.



6. 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



Software revision number

6.1 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.