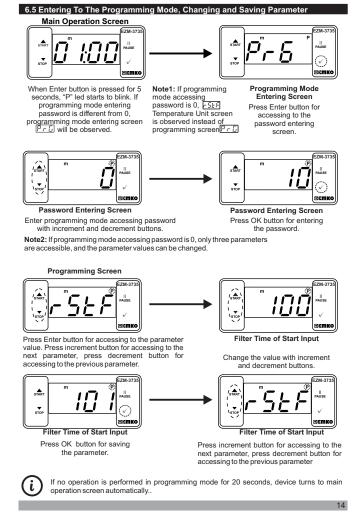
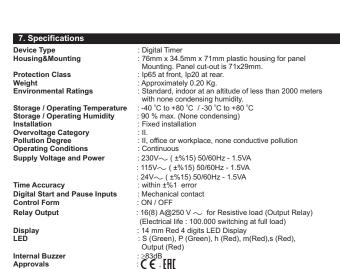
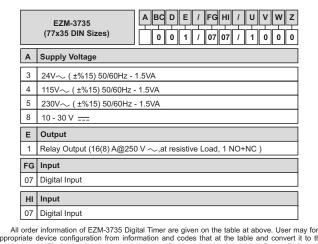
4. Control diagram using External Digital Start Input. 4.1 If Start type 5 trt is selected as [499] 4.1.1 If Downcount dect=1 and outfis o-n the control diagram is shown in Figure 4.1 4.1.2 If Downcount $\boxed{\textit{dEct}}$ =1 and $\boxed{\textit{outf}}$ is $\boxed{\textit{off}}$ the control diagram is shown in Figure 4.2 Output Start Input Stop 4.2.1 If Upcount \sqrt{EcE} =0 and \sqrt{EcE} is \sqrt{EcE} the control diagram is shown in Figure 4.3 4.2.2 If Upcount $\[\underline{\partial \mathcal{E}_{\mathcal{L}}} \] = 0$ and $\[\underline{\partial \mathcal{E}_{\mathcal{L}}} \]$ is $\[\underline{\partial \mathcal{F}} \]$ the control diagram is shown in Figure 4.4 Power [Power Output Output Start Input

Figure 4.4

Figure 4.3







All order information of EZM-3735 Digital Timer are given on the table at above. 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.

⇒ Vdc ⇒ Vdc or Vac can be applied

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

Size

N O

77x35

EZM-3735

Controller Digital Timer

C€ EHI

EZM-3735 77 x 35 DIN Size **Digital Timer Controller**

- 4 Digits Display Operation with One Set value
- Single Contact Output for Timing control (ON /OFF)
 External Start and Pause Input
- Start and Stop Possibility by front Panel - Pause possibility by front Panel
- Set value high limit boundaries
- Display can be adjusted to show Second, Minute and Hour - Programmable Time Bases (Second, Minute, Hour)
- Adjustable internal buzzer according to Timer Stop status
- Password protection for programming section
 Having CE mark according to European Norms

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A visual inspection of this product for possible damage occurred during shipment is 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

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

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

Keep the power off until all of the wiring is completed so that electric shock and trouble with the

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

1.4 Warrant

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.

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.

1.6 Manufacturer Company

Manufacturer Information:

Emko Elektronik Sanayi ve Ticaret A.Ş. Demirtaş Organize Sanayi Bölgesi Karanfil Sk. No:6 16369 BURSA/TURKEY

Phone : +90 224 261 1900 Fax : +90 224 261 1912

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 1900 Fax : +90 224 261 1912

1 Preface

EZM-3735 Programmable Timer can be used in package machines, production and quality control rollers, and can be adapted easily to all mechanical construction and automation system. Some application fields which they are used are below:

Application Fields

Production bands

Package machines Quality Control rollers Filling Systems, Tool Benchs. **Building Automation**

1 1 Environmental Ratings



Operating Temperature : 0 to 50 °C



Max. Operating Humidity: 90% Rh (non-condensing)

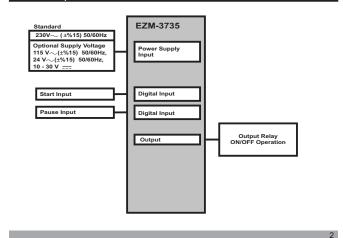


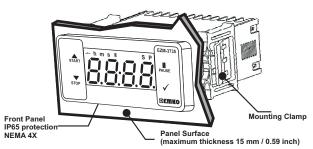
Altitude : Up to 2000 m



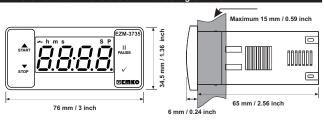
Forbidden Condition Corrosive atmosphere

Home applications (The unit is only for industrial applications)

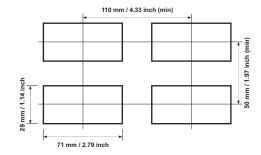




2.1 Front View and Dimensions of EZM-3735 Digital Timer



2.2 Panel Cut-Out



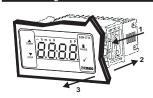
2.3 Panel Mounting



1-Before mounting the device in your panel, make sure that the cut-out is of the right size.

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

- Insert the mounting clamps to the fixing sockets

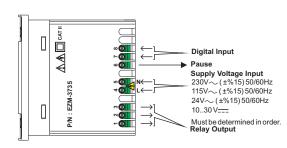
that located left and right sides of device and make

the unit completely immobile within the panel

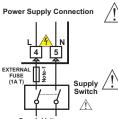
2-Pull the unit through the front side of the panel

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

4. Electrical Wiring Diagram



4.1 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

Supply voltage range must be determined in order. While installing the unit, supply voltage range must be controlled and appropriate supply voltage must be applied to the unit.

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 important in electrical connection.

External fuse that on ~power supply inputs must be on

External fuse that on ___power supply inputs must be on (+)

24V~ (±%15) 50/60Hz Must be determined in order.

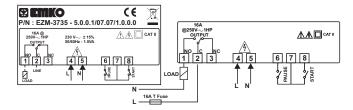
230V~ (±%15)50/60Hz, 115V~(±%15)50/60Hz

10...30 V=== 1.5 W

Note-1: External fuse is recommended

4.2 Device Label and Connection Diagram

230V~ CONNECTION DIAGRAM

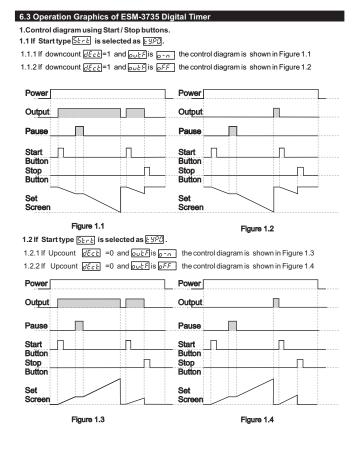


It can be adjusted from 0 to 16. Buzzer is active during this time (Default = - - -) Buzzer stays active during this time. It can be adjusted from 1 to 99 seconds When this parameter is 1, if decrement button is pressed. [--] is observed. In this condition buzzer is active till buzzer Stop button is pressed. Data Record (Default = 1) Timer count value is saved to memory when power is disconnected and restored on power up. Timer count value is not saved to memory when power is disconnected. When power up, Set value is shown on the screen tive. If it is 0000 second, then it operates Maximum Set Value Parameter (Default = 01:00) Maximum set value for set time value. It can be adjusted from [333] to [9393]. (If time value is monitored in miliseconds. [52c] It can be adjusted from \$\overline{\text{DDD}}\$ to \$\overline{99.59}\$. (If time value is monitored in Hours \$\overline{\text{hoUr}}\$ or Minutes. \$\overline{\text{T}}\$ in \$\overline{\text{hoUr}}\$ 「「こう」 Timer Counting Direction (Default = 1) Timer upcount, 0 to Set value, Timer Downcount, Set value to 0. Button Protection Parameter (Default = 0) Button protection is not active. Buttom protection is active for Timer set value Programming Section Access Password (Default = 0) It is used for accessing to the programming section, it can

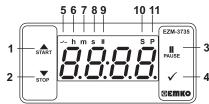
It is used for accessing to the programming section. It can be adjusted from 0 to 9999. If it is selected 0, password will not be asked.

Buzzer Function Selection Parameter (Default = 0)

Buzzer Function Selection Parameter (Default = υ) if this parameter is selected 0, Buzzer is inactive. Adjustable 16 different buzzer sounds.



5.Front Panel Definition and Accessing to the Menus



BUTTON DEFINITIONS

1. Increment Button and Start Button

- ** It is used to increase the value in the Set screen and Programming mode.
 ** It is used for Start the Timer in the Main Screen.

2. Decrement, Silencing Buzzer and Stop Button

- It is used to decrease the value in the Set screen and Programming mode.
- ** It is used to silence the huzzer
- ** It is used for Stop the Timer in the Main Screen.

timer stops running. After that if the pause button is pressed again or external pause input is deactivated, timer starts running again.

4. Enter Button:

- * In the main operation screen; if this button pressed, set value will be displayed. Value can be changed using increment and decrement buttons. When Set button pressed again, value is saved and returns back to main operating screen.

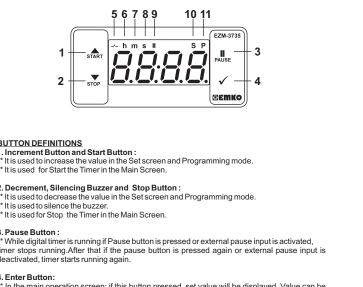
 *** To access the programming screen; in the main operation screen, press this button for 5
- ** It is used to saving value in the Set screen and programming screen.

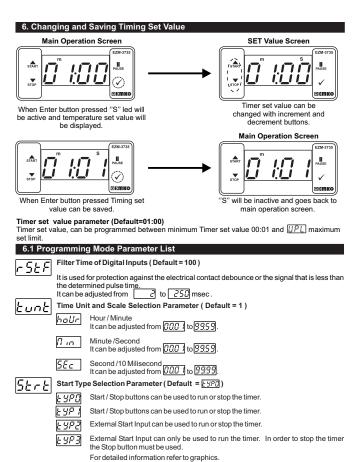
LED DEFINITIONS

- 5. Output led: ** This led indicates that Output is active.
- 6.Hourled: * Indicates that device is in Hour mode 7. Minute led
- * Indicates that device is in Minute mode.
- 8.Second led: Indicates that device is in Second mode.
- 9.Pause led: * This led indicates that Pause is active.

10.Set led: * Indicates that device is in Set value changing mode.

11.Program led: **Blinks in programming mode





if ON is selected timer runs by start and relay contact is closed. When time is

if OFF is selected timer runs by start. When time is over, relay contact is closed

Out Functions (Default = OFF)

over, relay contact opens.

