# **₽EMKO**

# EZM-4435,EZM-4935,EZM-7735,EZM-9935 Programmable Timers



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## EZM-4435.EZM-4935.EZM-7735.EZM-9935

- 6 digits actual value and 6 digits Set value Display
- Operation with 1 Set Value
- Reset . Pause and Start inputs
- NPN/PNP input type selection
- Programmable Time Bases (Hour, Minute, Second)
- Operation with Automatic and Manual Reset

# SPECIFICATIONS:

INPUTS:

Reset Input: Switch, Proximity or Capacitive sensor can be connected.

Pause Input: Switch, Proximity or Capacitive sensor can be connected.

Start Input: Switch, Proximity or Capacitive sensor can be connected.

Sensor Type Selection: NPN or PNP can be selected.

Reset Function: Automatic or Manual.

Reset, Pause and Start Inputs Filter: 2-250 msec (Can be adjusted in parameter.)

OUTPUT

Process Output: Relay Output( 5A@250V ~at Resistive Load)

# SUPPLY VOLTAGE

Supply Voltage:

230 V ~ 50/60 Hz (-15%;+10%) 2.3VA 115V ~ 50/60 Hz (-15%; +10%) 2.3VA

24V ~ 50/60 Hz (-15%; +15%) 2.3VA

24V=== 4W / 24V ~ 50/60 Hz (-15% : +15%) 4VA

(Must be determined in order.)

DISPLAY :

## Actual Value Display:

EZM-4435:8 mm Red 6 digit LED Display

EZM-4935: 13.2 mm Red 6 digit LED Display

EZM-7735 : 10.8 mm Red 6 digit LED Display EZM-9935 : 13.2 mm Red 6 digit LED Display

Set Value Display: EZM-4435:8 mm Green 6 digit LED Display

EZM-4935:8 mm Green 6 digit LED Display

EZM-7735:8 mm Green 6 digit LED Display

EZM-9935:8 mm Green 6 digit LED Display

LED Displays: SV (Set value), OP(Output Position).

## **ENVIRONMENTAL RATINGS and PHYSICAL SPECIFICATIONS**

Operating Temperature: 0...50°C

Humidity: 0-90%RH (none condensing)

Protection Class: lp65 at front, lp20 at rear

# Weight:

EZM-4435 : 210 ar.

EZM-4935 :210 gr.

EZM-7735 : 250 gr.

EZM-9935 : 340 gr.

#### Dimensions:

EZM-4435: (48 x 48mm, Depth: 95 mm)

EZM-4935: (96 x 48mm, Depth:96 mm)

EZM-7735: (72 x72mm, Depth:95.5 mm)

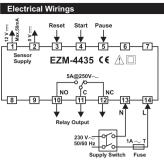
EZM-9935: (96 x 96mm, Depth:96 mm)

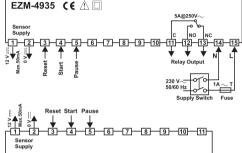
#### Panel Cut-Out:

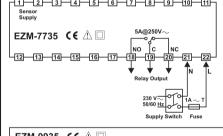
EZM-4435: (46 x 46mm)

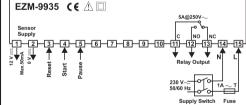
EZM-4935: (92 x 46mm) EZM-7735: (69 x 69mm)

EZM-9935: (92 x 92mm)

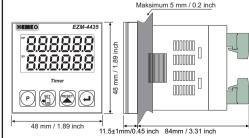


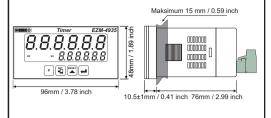


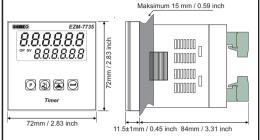


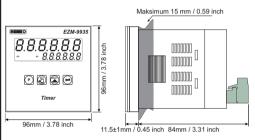


# **DIMENSIONS**



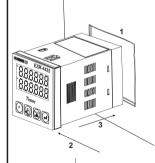








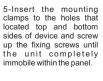
0000

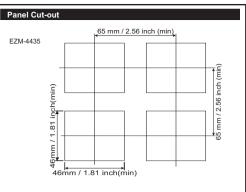


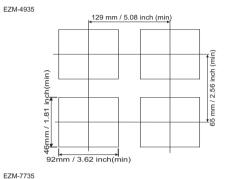
10000

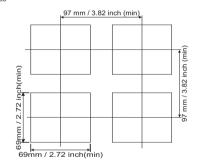
- 1-Before mounting the device in your panel, make sure that the panel cut-out is suitable.
- 2- Check front panel gasket Position.
- 3- Insert the device through the cut-out. If the mounting clamp are on the unit, put out them before inserting the unit to the panel.

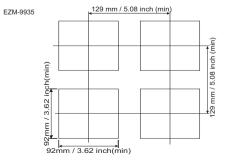




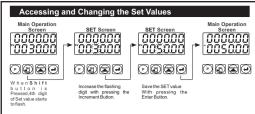


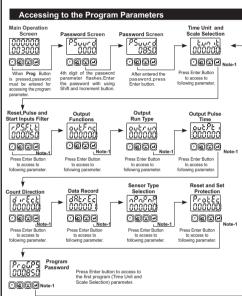






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Note 1- Parameter value can be changed with Incrament button. When the Enter button is pressed parameter value will be saved and following parameter is accessed.

Note 2- Press "P" button is exit without saving the parameter value. Thus Main Operation Screen is appeared.

# Parameter Definitions

ະພາດ ເປັ : Time Unit and Scale Selection (Default =0)

[000000] Hour/Minute base counting timer. It can be adjusted from 00.00 to 99.59

00000 Minute/Second base counting timer. It can be adjusted from 0.00 to 99.59.

[000002] Second/Milisecond base counting timer. It can be adjusted from 00.00 to 99.99.

[000003] Hour/Minute base counting timer. It can be adjusted from 00.00 to 23.59.

000004 Hour base counting timer.

It can be adjusted from 000.00 to 999.99

000005 Minute base counting timer. It can be adjusted from 000.00 to 999.99

000005 Second base counting timer.

It can be adjusted from 000.00 to 999.99.

FRSFLE : Reset, Pause and Start Input Pulse Time. (Default =50)

> It is used to protect against the electrical contact debounce or the signal that is less than the determined pulse time.
>
> It can be adjusted from 000002 to 000250 milisecond.

ουξξος :Output Functions (Default=0)

0:Manuel Reset-1:Process counts.until manuel reset happens. When count value reaches the Set value, Output position is changed.



SET

SET

SET

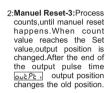
outPt 1≠000

outPt 1≠000000

outPt = 000000

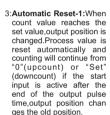
outPt .≠

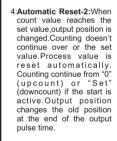
outPt .



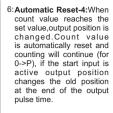
doesn't change until

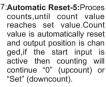
manuel reset happens.

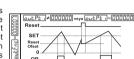












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SET

# ວບຽກພາ : Output Run Type (Default =0)

000000 Normally De-energised. MARIAN Normally Energised.

# outPt :: Output Pulse Time (Default =00.02.00)

It determines how long Output will be active. It can be adjusted from 00.00.00 to 99.59.99 (99 minutes: 59.99 seconds). If it is 00.00.00, then it operates indefinitely.

# ಶ್ರೀ ಕ್ಷಾಕ್ಷ : Count Direction (Default =0)

000000 Upcount. ( 0 --> Preset ) DDDDD | Downcount. ( Preset --> 0 )

#### ಡಿರ್ನಿಕ್ಕ : Data Record (Default =1)

000000 Count value is saved to memory when power is disconnected and restored on power up.

Count value is not saved to memory when power is disconnected.

# ್ರಾರ್ಡ್ಗೌನ್ : Sensor Type Selection (Default =0)

000000 NPN sensor type selected 00000 PNP sensor type selected.

#### ProtEc: Reset and Set Protection (For Front Panel Access) (Default =0)

nonnin No Reset and Set protection.

00000 Only Reset button protection is active.

[000002] Only Set button protection is active .

MMMM3 Full Protection, Reset and Set button protection is active.

# Pro695 :Program Password (Default =0)

It is used for accessing to the program parameters.

It can be adjusted from 000000 to 009999

If it is 000000 ; there is no password protection while entering to the program parameters.

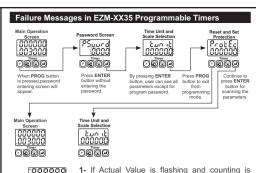
When programming Prof button is pressed, will appear on the display.

#### If this parameter is different from "0" and user wants to access to the program parameters;

1- If user does not enter the PSuur d value correctly: operation screen will appear without entering to operator

2- When P5uurd in top display and DDDDD in bottom display,if user presses ENTER button without entering password (for observing the parameters):

User can see all parameters except Program Password but device does not allow to do any change in the program narameters



9999999 003000 രത്തര

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It appears if any of the count value is bigger than

the maximum count value

To remove this warning and reset the count value press RESET button.

2- If Actual Value is flashing and counting is stopped: It appears if any of the count value is lower than

the minimum count value.

To remove this warning and reset the count value press RESET button.

## Installation



Before beginning installation of this product. please read the instruction manual and warnings below carefully.

In package

-One piece unit

-Two pieces mounting clamp

-One piece instruction manual

A visual inspection of this product for possible damage occured 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 system and the electrical connection of the device from the system.

The unit is normally supplied without a power 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 the equipment is putted 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 mounting clamp. Do not do the montage of the device with in appropriate mounting clamp. Be sure that device will not fall while doing the

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

#### 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.

## 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.

# Other Informations

## 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

# Order Information

EZM-4435 (48x48 DIN 1/16) EZM-4935 (96x48 DIN 1/8) EZM-7735 (72x72 DIN) EZM-9935 (96x96 DIN 1/4)	Α	вс	D	Е	1	FG	н	1	U	٧	W	z
	Ť	00	0	1	1	00	00	1	0	0	0	0

# A Supply Voltage

2	24 V=== (-%15;+%15) / 24 V ~ (-%15;+%15) 50/60Hz
3	24 V ~ (-%15;+%15) 50/60Hz
4	115 V ~ (-%15;+%10) 50/60Hz
5	230V ~ (-%15;+%10) 50/60Hz
9	Customer

# E Output-1

# 1 Relay Output (5A @ 250 V ~) at Resistive Load

All order information of EZM-xx35 series 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.



Symbol Means Vac ←
Symbol Means Vdc ===
Symbol Means Vac and Vdc ≂

Thank you very much for your preference to use Emko Elektronik products, please visit our Your Technology Partner web page to download detailed user manual.

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