

EZM-4435 48 x 48 DIN 1/16 Universal Input Programmable Timer

- 6 digits Process (PV) and 6 digits Set (SV) Value Display
- Operation with 1 Set Value
- Reset , Pause and Start Inputs
- Operation with Automatic and Manual Reset
- NPN/PNP Type Operation
- Programmable Time Bases (Second, Minute, Hour)

ABOUT INSTRUCTION MANUAL

Instruction manual of EZM-4435 Programmable Timer consists of two main sections. Explanation of these sections are below. Also, there are other sections which include order information and technical specifications of the device. All titles and page numbers in instruction manual are in "**CONTENTS**" section. User can reach to any title with section number.

Installation:

In this section, physical dimensions of the device, panel mounting, electrical wiring, module mounting in the device, physical and electrical installation of the device to the system are explained.

Operation and Parameters:

In this section, user interface of the device, how to access to the parameters, description of parameters are explained.

Also in these sections, there are warnings to prevent serious injury while doing the physical and electrical mounting or using the device.

Explanation of the symbols which are used in these sections are given below.



This symbol is used for safety warnings. User must pay attention to these warnings.



This symbol is used to determine the dangerous situations as a result of an electric shock. User must pay attention to these warnings definitely.



This symbol is used to determine the important notes about functions and usage of the device.

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EU DECLARATION OF CONFORMITY

Manufacturer's Name : EMKO ELEKTRONIK A.S. Manufacturer's Address : DOSAB, Karanfil Sk., No:6,

16369 Bursa, TURKEY

The manufacturer hereby declares that the product:

Product Name : Programmable Timer

Type Number : EZM-4435

Product Category : Electrical equipment for measurement, control and

laboratory use

Conforms to the following directives:

2006 / 95 / EC The Low Voltage Directive

2004 / 108 / EC The Electromagnetic Compatibility Directive

has been designed and manufactured to the following specifications:

EN 61000-6-4:2007 EMC Generic Emission Standard for Industrial Environments

EN 61000-6-2:2005 EMC Generic Immunity Standard for Industrial Environments

EN 61010-1:2001 Safety Requirements for electrical equipment for measurement, control

and laboratory use

When and Where Issued Authorized Signature

16th October 2009 Name : Serpil YAKIN

Bursa-TURKEY Position : Quality Manager

1.Preface

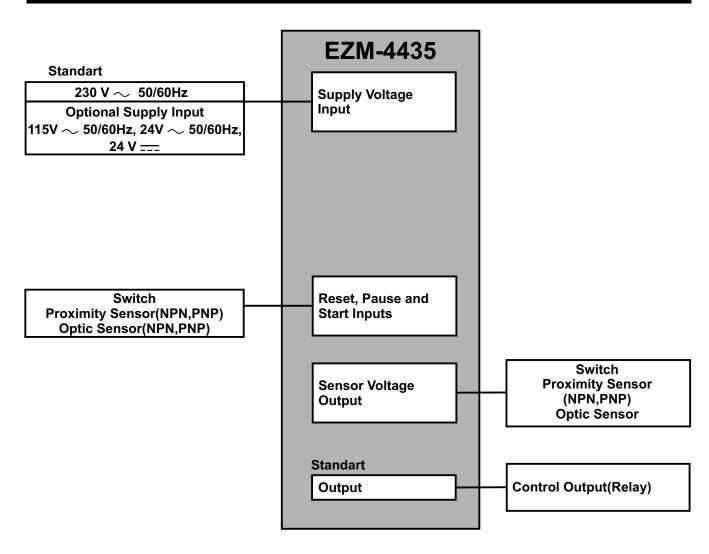
EZM Series Programmable Timer can be used in package machines, production and quality control rollers, and can be adapted easily to all mechanical construction and automation system.

Some application fields which they are used are below:

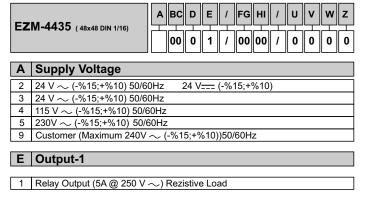
Application Field

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

1.1 General Specifications



1.2 Ordering Information

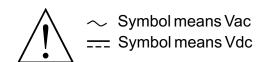


All order information of EZM-4435 Programmable Timer are given on the table at left. User may form appropriate device configuration from information and codes that at the table and convert it to the ordering codes.

Supply voltage must be determined for your system.

Please fill the order code blanks according to your needs.

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



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.

2.Installation



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

In package,

- One piece unit
- Two pieces mounting clamps
- 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 separate 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.

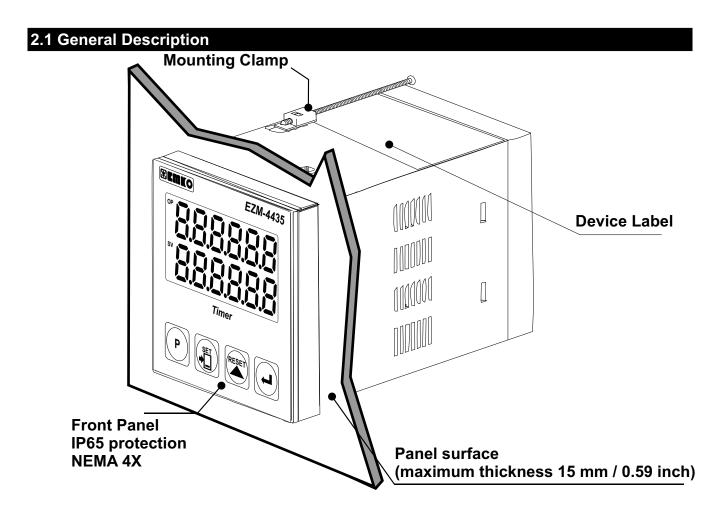
Never attempt to disassemble, modify or repair this unit. Tampering with the unit may results in malfunction, electric shock or fire.

Do not use the unit in combustible or explosive gaseous atmospheres.

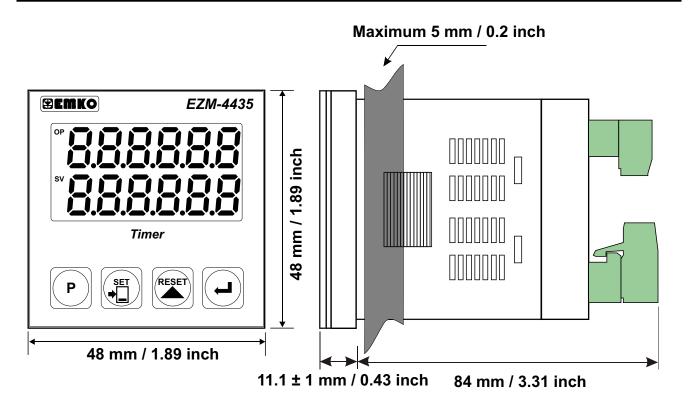
During the equipment is putted in hole on the metal panel while mechanical installation some metal burrs can cause injury on hands, you must be careful.

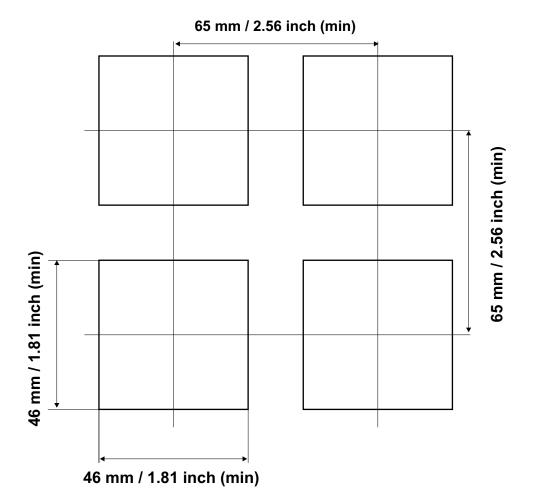
Montage of the product on a system must be done with it's fixing clamps. Do not do the montage of the device with inappropriate fixing clamp. Be sure that device will not fall while doing the montage.

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



2.2 Dimensions





2.4 Environmental Ratings

Operating Conditions



Operating Temperature : 0 to 50 °C



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

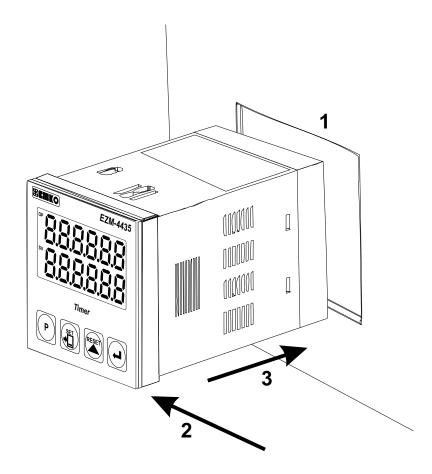


Altitude : Up to 2000m.



Forbidden Conditions:
Corrosive atmosphere
Explosive atmosphere
Home applications (The unit is only for industrial applications)

2.5 Panel Mounting

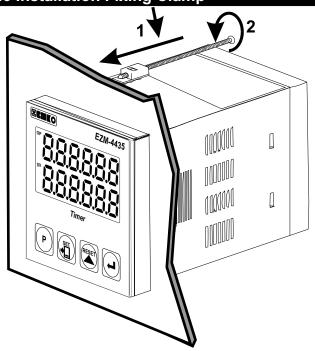


- 1-Before mounting the device in your panel, make sure that the cut-out is the right size.
- 2-Check front panel gasket position
- 3-Insert the device through the cut-out. If the mounting clamps are on the unit, put out them before inserting the unit to the panel.



During installation into a metal panel, care should be taken to avoid injury from metal burrs which might be present. The equipment can loosen from vibration and become dislodged if installation parts are not properly tightened. These precautions for the safety of the person who does the panel mounting.

2.6 Installation Fixing Clamp



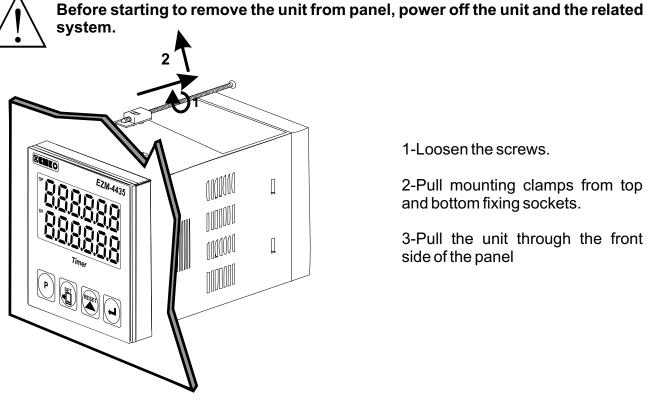
The unit is designed for panel mounting.

- 1-Insert the unit in the panel cut-out from the front side.
- 2- Insert the mounting clamps to the holes that located top and bottom sides of device and screw up the fixing screws until the unit completely immobile within the panel



Montage of the unit to a system must be done with it's own fixing clamps. Do not do the montage of the device with inappropriate fixing clamps. Be sure that device will not fall while doing the montage.

2.7 Removing from the Panel



- - 1-Loosen the screws.
 - 2-Pull mounting clamps from top and bottom fixing sockets.
 - 3-Pull the unit through the front side of the panel

3. Electrical Wirings



You must ensure that the device is correctly configured for your application. Incorrect configuration could result in damage to the process being controlled, and/or personal injury. It is your responsibility, as the installer, to ensure that the configuration is correct.

Parameters of the device has factory default values. These parameters must be set according to the system's needs.



Only qualified personnel and technicians should work on this equipment. This equipment contains internal circuits with voltage dangerous to human life. There is severe danger for human life in the case of unauthorized intervention.

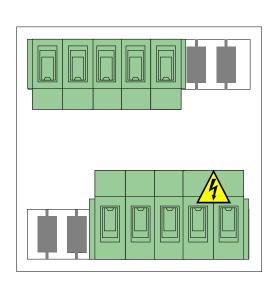


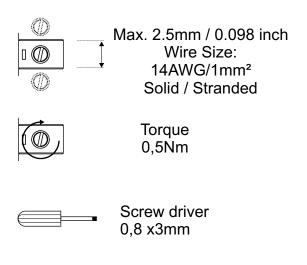
Be sure to use the rated power supply voltage to protect the unit against damage and to prevent failure.



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

3.1 Terminal Layout and Connection Instructions

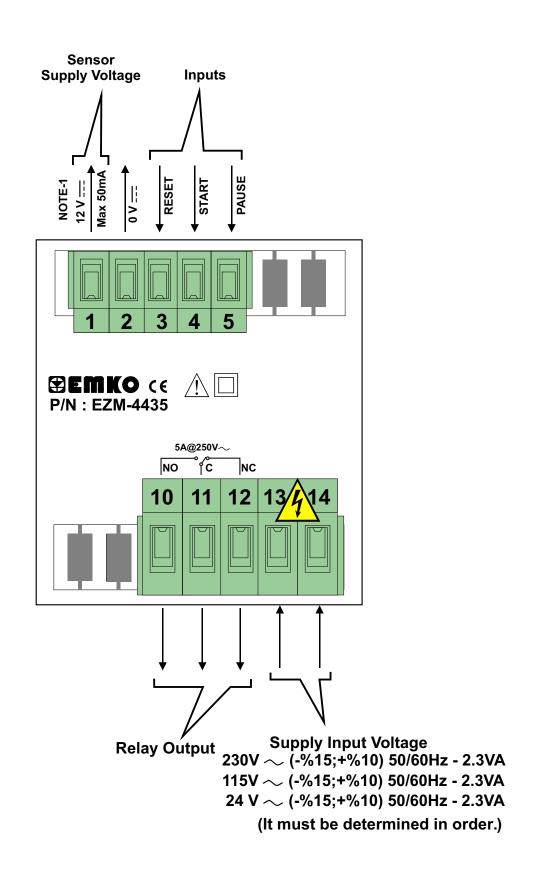




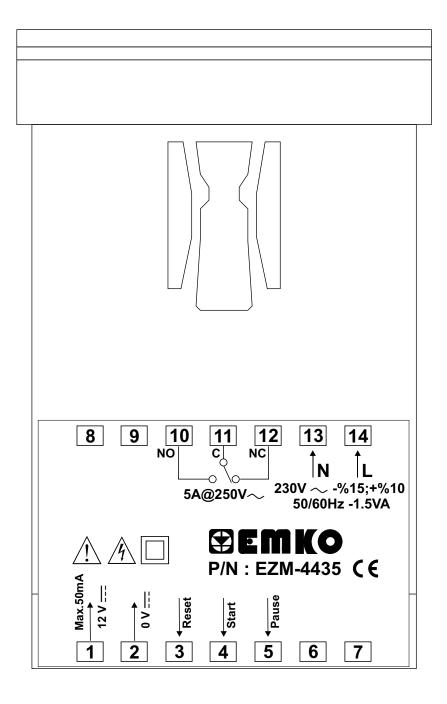
3.2 Electrical Wiring Diagram



Electrical wiring of the device must be the same as 'Electrical Wiring Diagram' below to prevent damage to the process being controlled and personnel injury.

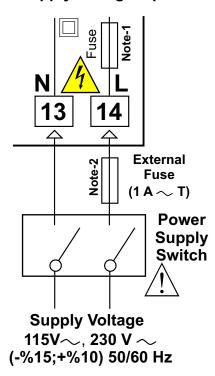


NOTE-1 : Sensor supply voltage: 12V₋₋₋ ± 40%, 50 mA maximum with short circuit protection

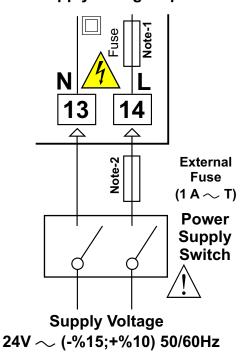


3.4 Connection of Device Supply Voltage Input

Connection of Universal Supply Voltage Input



Connection of Universal Supply Voltage Input



Note-1:

There is internal 33 R fusible flameproof resistor in 115V \sim 50/60 Hz and 230V \sim 50/60 Hz There is internal 4R7 fusible flameproof resistor in 24V \sim 50/60Hz

Note-2: External fuse is recommended



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 controlled and appropriate supply voltage must be applied to the unit. Controlling prevents damages in unit and system and possible accidents as a result of incorrect supply voltage.

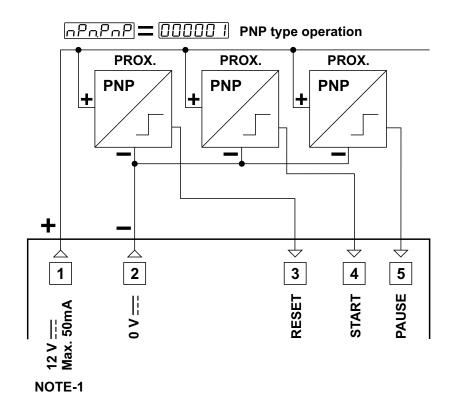


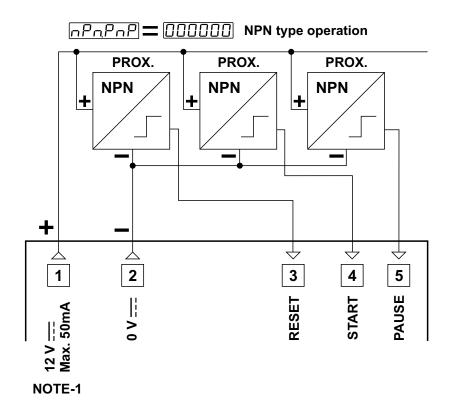
There is no power supply switch on the device. So a power supply switch must be added to the supply voltage input. In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument. Power supply switch shall be easily accessible by the user.

Power switch must be two poled for seperating phase and neutral. On/Off condition of power switch is very important in electrical connection. On/Off condition of power switch must be signed for preventing the wrong connection.

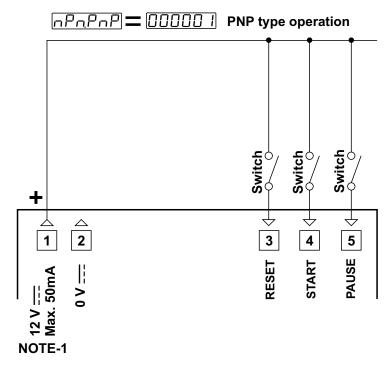
If an external fuse is used, it must be on phase connection in \sim supply input.

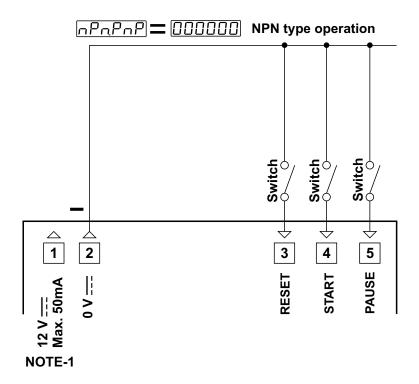
3.5.1 Proximity Connection





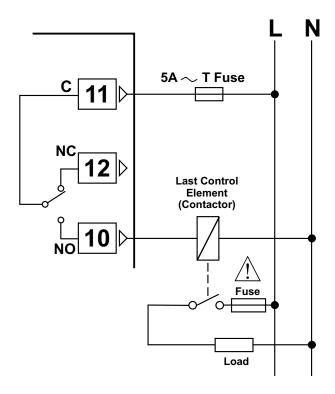
NOTE-1 : Sensor supply voltage: 12V₋₋₋ ± 40%, 50 mA maximum with short circuit protection





NOTE-1 : Sensor supply voltage: $12V_{---} \pm 40\%$, 50 mA maximum with short circuit protection

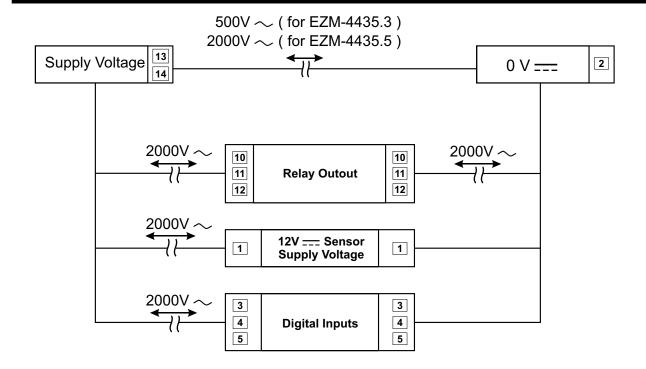
3.6 Relay Output Wiring Diagram





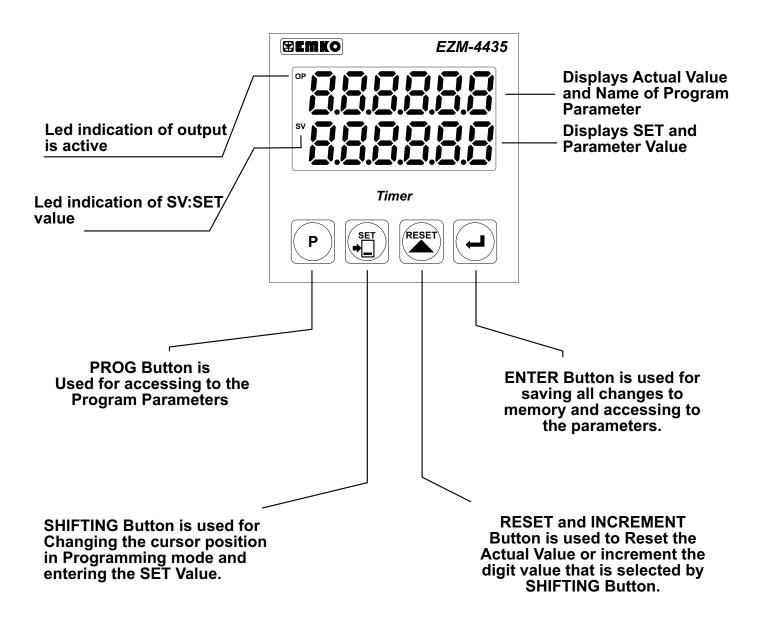
Fuses must be selected according to the applications.

3.7 Galvanic Isolation Test Results of EZM-4435 Programmable Timer



4. Definition of Front Panel and Accessing to the Set Parameters

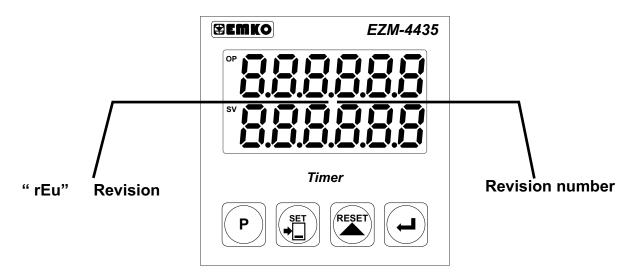
4.1 Definition of Front Panel



4.2 Power On Observation of EZM - 4435 Programmable Timer and Software Revision on the Display

When power is applied to the device, software revision number of the controller is momentarily illuminated on actual value display. Then operation screen is observed.

When power on, view of the screen is shown below:









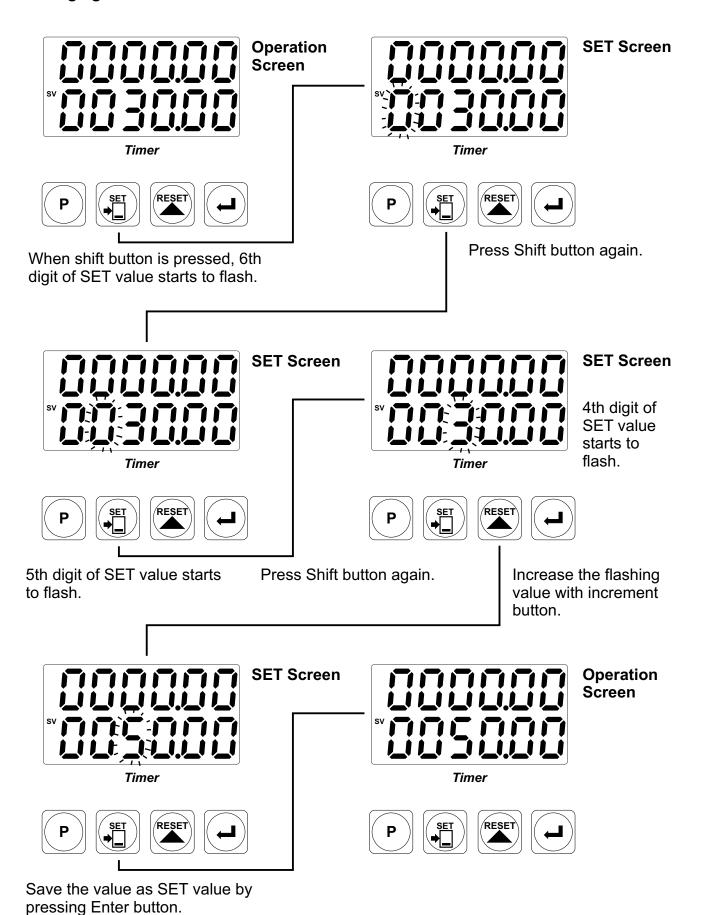
Main screen is shown.



If there is an unexpected situation while opening the device, power off the device and inform a qualified personnel.

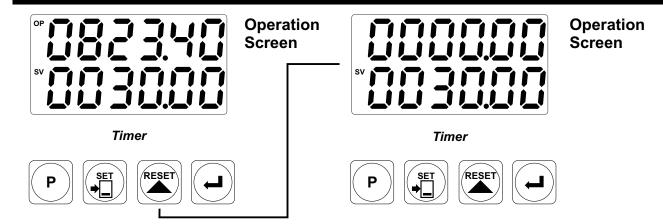
4.3 Adjustment of SET Value

Changing SET Value



21

4.4 Resetting the Count Value



When RESET button is pressed, Actual Value becomes the 0 Value.

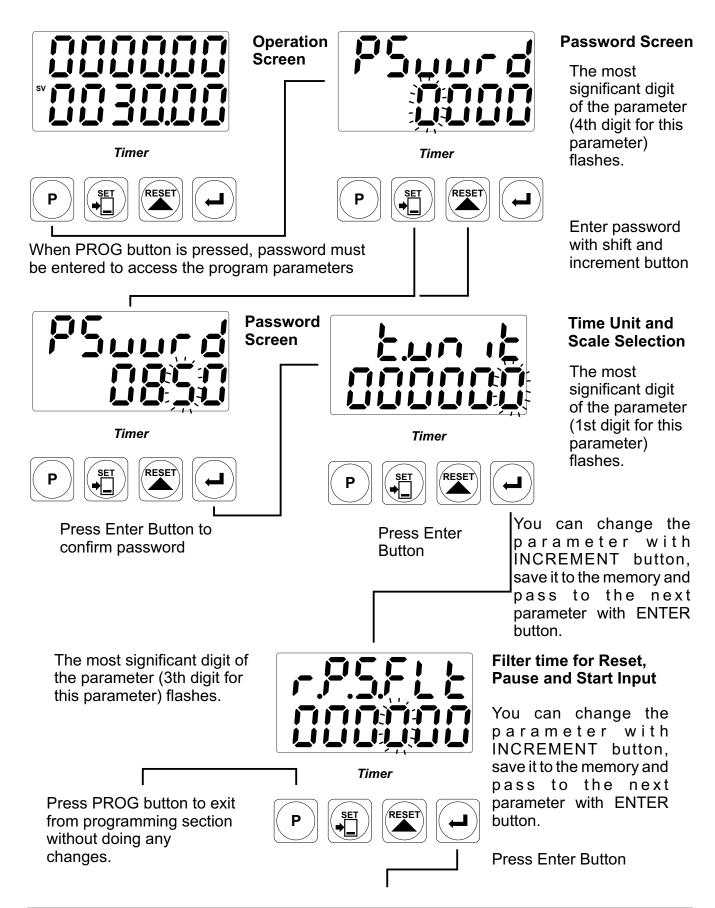


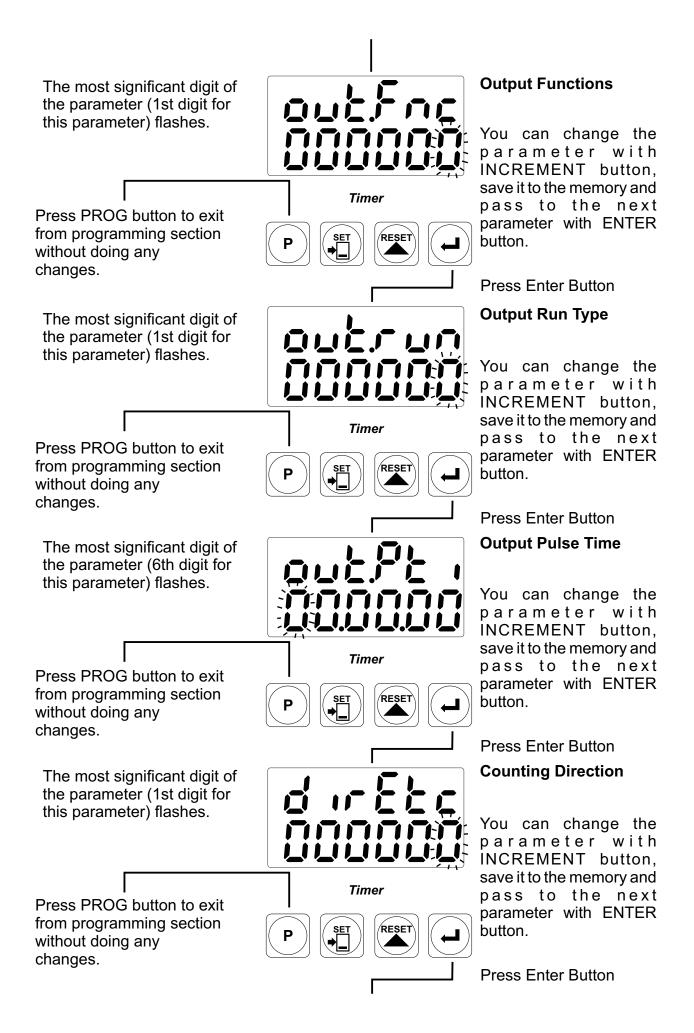
RESET operation can be realized by Reset button or applying signal to the RESET input. These two operations are named MANUAL RESET in parameters section.

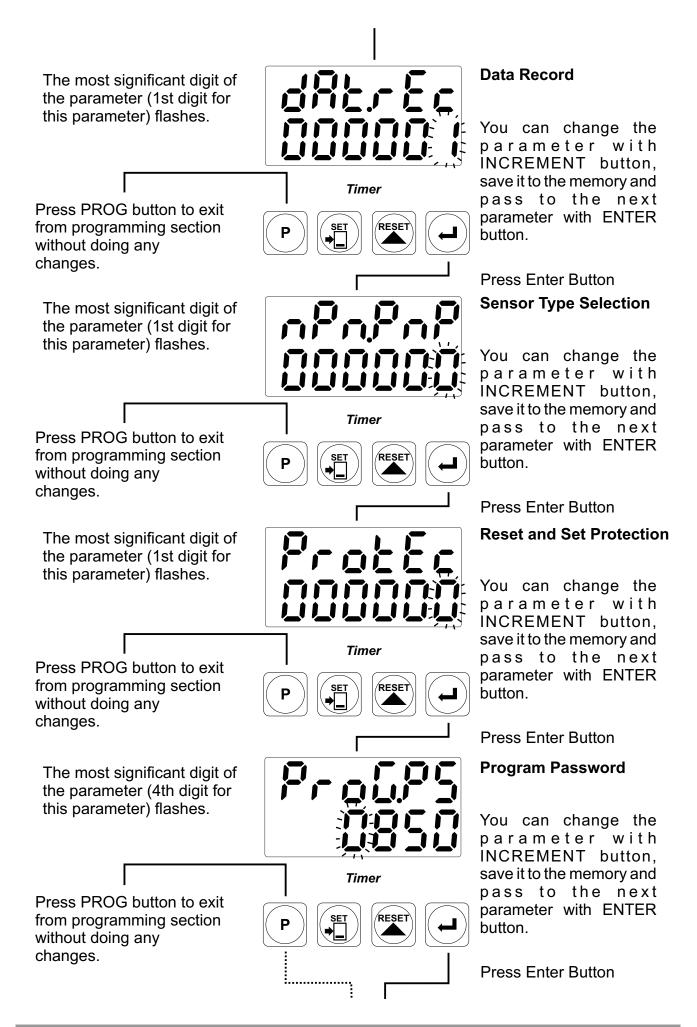
At the end of MANUAL RESET; if direct = 000000 then Count value becomes 0 value. If direct = 000000 then Count value becomes SET value.

4.5 Accessing to the Program Parameters

In this section Accessing to the Program parameters process is shown. For details on parameters refer to PROGRAM PARAMETERS section.









Timer









Operation Screen



Timer









Time Unit and Scale Selection

Continue to press ENTER button for scanning all parameters.

5. Program Parameters

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Time Unit and Scale Selection

000000	Hour/Minute It can be adjusted from 000000 to 009959
00000 1	Minute/Second It can be adjusted from DDDDD to DD9959
000002	Second/Milisecond It can be adjusted from 00000 to 009999
000003	Hour/Minute It can be adjusted from 000000 to 002359
000004	Hour It can be adjusted from 000000 to 099999
000005	Minute It can be adjusted from 000000 to 099999
000006	Second It can be adjusted from 000000 to 099999

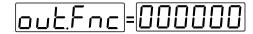


Filter Time of Reset, Pause and Start Inputs

It is used to protect against the electrical contact debounce or the signal that is less than the determined pulse time.

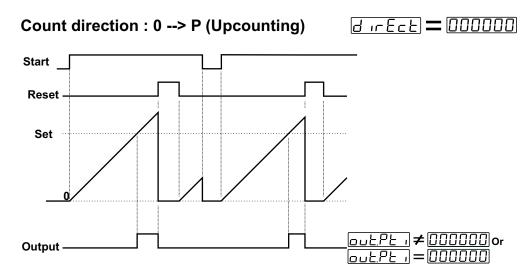
It can be adjusted from 000002 to 000250 msec.



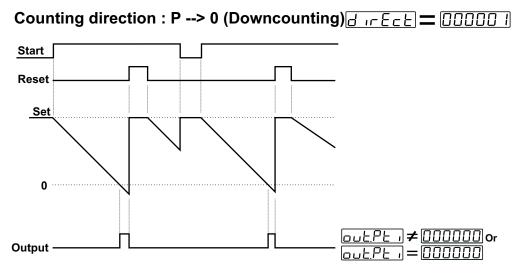


Manual Reset-1.

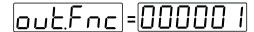
Device continues to count till manual reset is applied. (Output PulseTime ロルトアト is not considered)



When count value reaches the Set Value, Output Position is changed. Counting process continues over the SET value. Output Pulse Time is not considered. Process counts, until manual reset happens. Counting is continues, while Start input is active. When Start input is passive, count value becomes "0". When Manual Reset happens, count value becomes 0 value.



When count value reaches the 0 Value, Output Position is changed. Counting process continues under the 0 value. Output Pulse Time is not considered. Process counts, until manual reset happens. Counting is continues, while Start input is active. When Start input is passive, count value becomes SET value. When Manual Reset happens, count value becomes SET value.

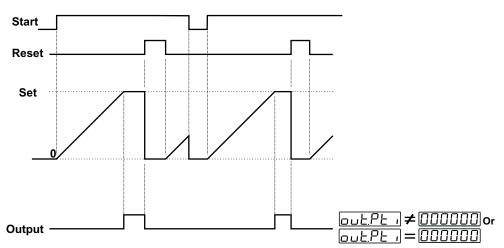


Manual Reset-2.

Device continues to count to

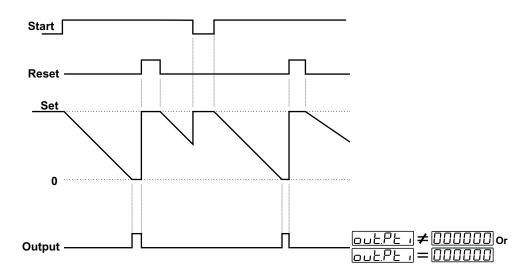
Device continues to count till manual reset is applied. (Output pulse Time ロロとりと) is not considered)

Counting direction : 0 --> P (Upcounting)

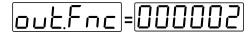


When count value reaches the Set Value, Output Position is changed. Counting process is not continue over the SET value. Output Pulse Time is not considered. Process counts, until manual reset happens. When Manual Reset happens, count value becomes 0 value. Counting is continues, while Start input is active. When Start input is passive, count value becomes "0".



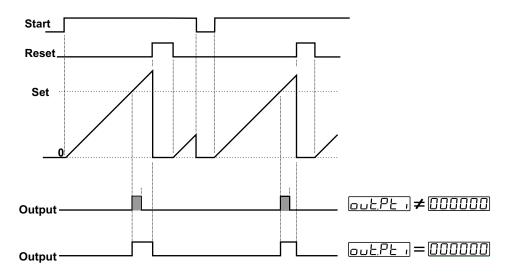


When count value reaches the 0, Output Position is changed. Counting process is not continue under the 0 value. Output Pulse Time is not considered. Process counts, until manual reset happens. When Manual Reset happens, count value becomes SET value. Counting is continues, while Start input is active. When Start input is passive, count value becomes SET value.



Manual Reset-3.
Device continues to count till manual reset is applied.
(Output Pulse Time ロルトアと is considered.)

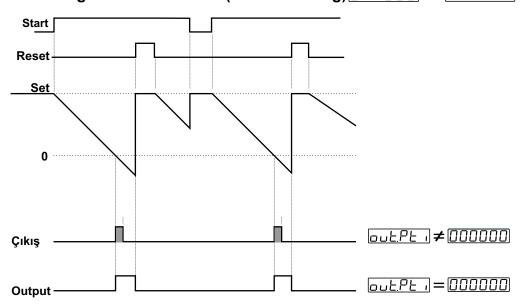
Counting direction: 0 --> P (Upcounting)



When count value reaches the Set Value, Output Position is changed. If Output Pulse time $\boxed{\begin{array}{c} \begin{array}{c} \begin{array}{c$

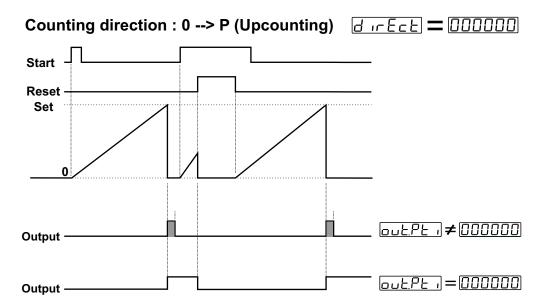
When Manual Reset happens, count value becomes 0 value. When Start input is passive, count value becomes "0".

Counting direction: P --> 0 (Downcounting)



When count value reaches the 0 Value, Output Position is changed. If Output Pulse time $\boxed{\begin{array}{l} \underline{\begin{array}{l} \underline{\begin{aray}{l} \underline{\begin{array}{l} \underline{\begin{array}{l} \underline{\begin{array}{l} \underline$

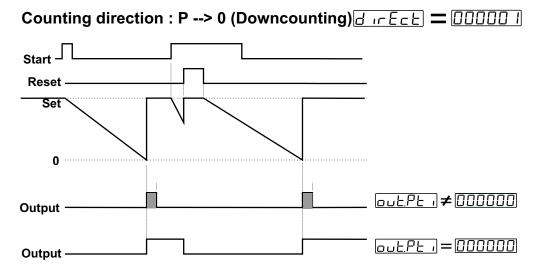
When Manual Reset happens count value becomes SET value. When Start input is passive, count value becomes SET value.



When count value reaches the Set Value, Output Position is changed. Actual value is reset automatically. While Start input is active, then counting starts upcounting from 0 value. If Output Pulse time is not 0, then Output Position is changed at the end of the Pulse time.

If Output Pulse time is "0", then Output Position has not changed until Manuel Reset happens.

When Manual Reset happens, count value becomes 0 value.

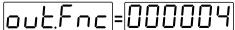


When count value reaches the 0 Value, Output Position is changed. Actual value is reset automatically. If Start input is active, then counting starts downcounting at Set value. If Output Pulse time is not 0, then Output Position is changed at the end of the Pulse time. If Pulse time is "0", then Output Position has not changed until Manuel Reset happens.

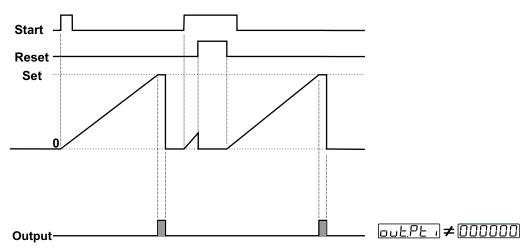
When Manual Reset happens count value becomes SET value.

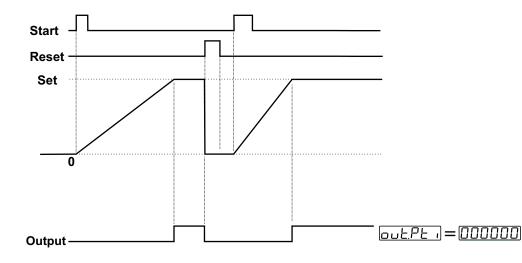


If output functions parameter <u>□□ŁF□</u> is selected Automatic Reset (□□□□□∃ | □□□□□□ ,□□□□□□ or □□□□□□ , then <u>□□ŁPŁ</u> must be different from zero for realizing Automatic Reset.









When count value reaches the Set Value, Output Position is changed. If Output Pulse time aut.Pt is not 0, then Output Position is changed at the end of the Pulse time and Actual value is reset and if the Start input is active, then counting starts from 0 value. If output pulse time aut.Pt. is "0", then output position has not change until Manual Reset happens.

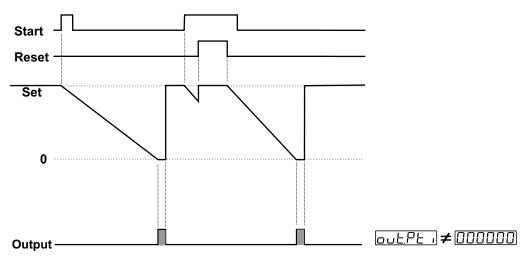
Actual counting value stops at SET value. Counting process is not continue over the SET value.

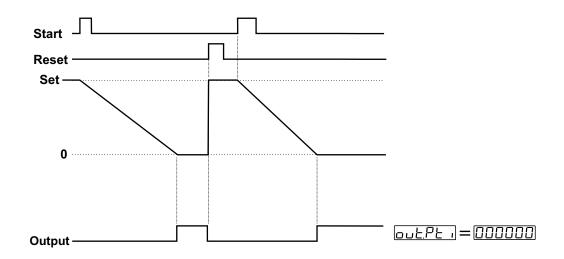
When Manual Reset happens, count value becomes 0 value.



If output functions parameter <u>out Fnc</u> is selected Automatic Reset (<u>ODDDD</u> 3 @@@@@q ,@@@@@S or @@@@@B , then ouŁ₽Ł 」 must be different from zero for realizing Automatic Reset.





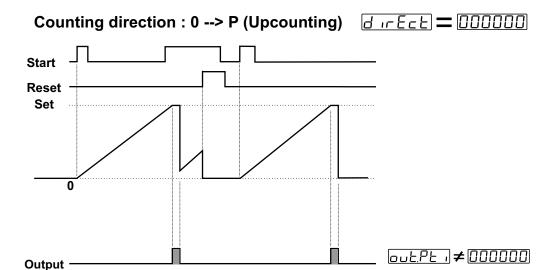


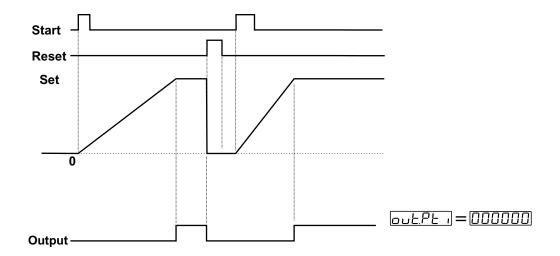
When count value reaches the 0 Value, Output Position is changed. If Output Pulse time <u>out.Pt</u> is not 0, then Output Position is changed at the end of the Pulse time and Actual value is reset. If the Start input is active, then counting starts from Set value. If output pulse time <u>out.Pt</u> is 0, then output position has not change until Manual Reset happens. Actual counting value stops at 0 value. Counting process is not continue under the 0 value.

When Manual Reset happens count value becomes SET value.



If output functions parameter <u>□□ŁF□</u> is selected Automatic Reset (□□□□□∃ | □□□□□□ ,□□□□□□ or □□□□□□ , then <u>□□ŁPŁ</u> must be different from zero for realizing Automatic Reset.





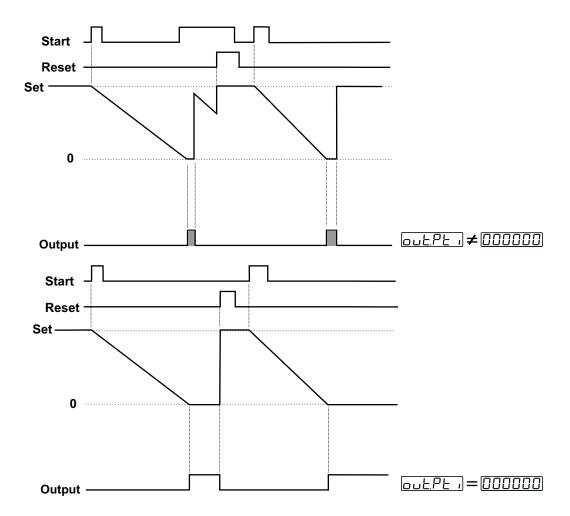
When count value reaches the Set Value, Output Position is changed. If Output Pulse time $\boxed{\text{out}.Pt}$ is not 0, then Output Position is changed at the end of the Pulse time and Real counting value is shown on Actual value screen. If output pulse time $\boxed{\text{out}.Pt}$ = $\boxed{\text{000000}}$ then, output position has not change until Manual Reset happens.

When counting value reach SET value, output position becomes active position and if the Start input is active, then count value starts counting from 0 value. But SET value is observed in actual value display. Counting process has not continue over SET value.

When Manual Reset happens, count value becomes 0 value.



Counting direction: P --> 0 (Downcounting)



When count value reaches the 0 Value, Output Position is changed. If Output Pulse time $\boxed{\begin{subarray}{c} \underline{\begin{subarray}{c} \underline{\begin{subarray}{c}$

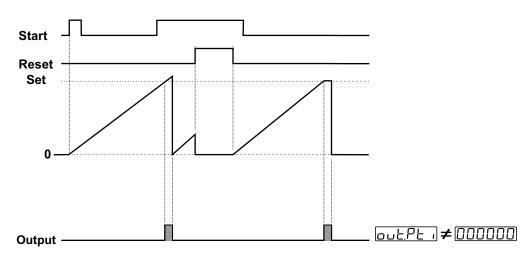
When counting value reach 0 value, output position becomes active position and if the Start input is active, then count value starts counting from Set value. But 0 value is observed in actual value display. Counting process has not continue under 0 value.

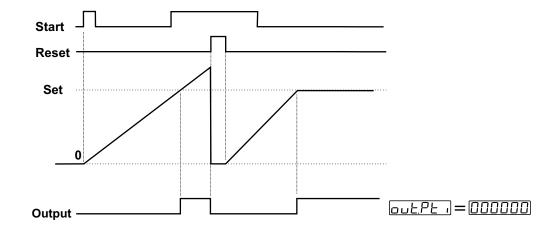
When Manual Reset happens count value becomes SET value.



If output functions parameter <u>□□ŁF□</u> is selected Automatic Reset (□□□□□∃ | □□□□□□ ,□□□□□□ or □□□□□□ , then <u>□□ŁPŁ</u> must be different from zero for realizing Automatic Reset.







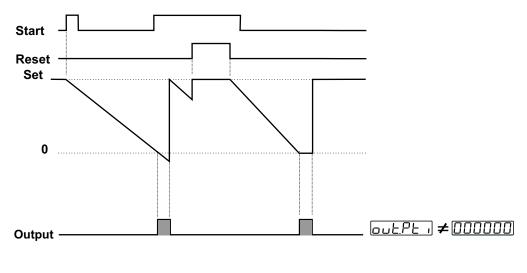
When count value reaches the Set Value, Output Position is changed. If Output Pulse time $\boxed{\begin{subarray}{c} \underline{\begin{subarray}{c} \underline{\begin{subarray}$

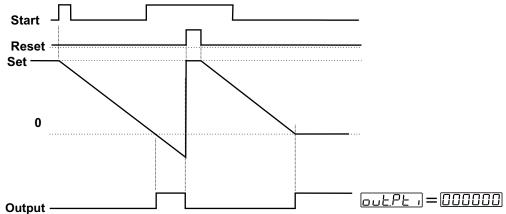
When counting value reach Set value, output position becomes active position. If the Start input is active, then counting continue over the Set value.

When Manual Reset happens, count value becomes 0 value.



Counting direction: P --> 0 (Downcounting)

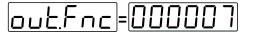


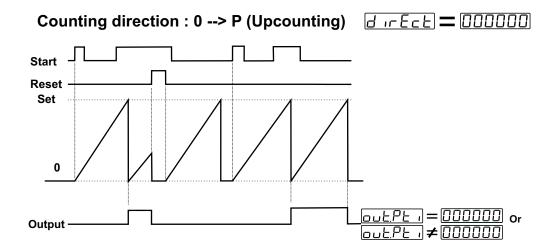


When count value reaches the 0 Value, Output Position is changed. If Output Pulse time $\boxed{\square \sqcup LPL}$ is not 0, then Output Position is changed at the end of the Pulse time and counting value becomes Set value and output becomes inactive position. If output pulse time $\boxed{\square \sqcup LPL}$ = $\boxed{\square \sqcup \sqcup \sqcup \sqcup \sqcup}$, then output position has not change until Manual Reset happens. When counting value reach 0 value, output position becomes active position. If the Start input is active, then counting continue under the 0 value.

When Manual Reset happens count value becomes SET value.







If the Start input is active, then Process starts counting, until count value reach SET value. When count value reach SET value, Output Position becomes active position and process is automatically reset. If the Start input is active, then process start counting from "0" value. If count value reach SET value, Output Position becomes passive position. When manual reset happens, count value becomes "0".

If the Start input is active, then Process starts counting, until count value reach "0" value. When count value reach "0" value, Output Position becomes active position and process is automatically reset. If the Start input is active, then process start counting from SET value. If count value reach "0" value, Output Position becomes passive position. When manual reset happens, count value becomes SET value.

Output R	un Type	
000000	Output Normally non-energised	
00000 1	Output Normally energised	
It can be a	ulse Time les how long Output will be active. djusted from 00.00.00 to 99.59.99 (99 minutes; 59.99 seconds). s, refer to the section where output functions <u>out.Fnc</u> are	
Direction	of Counting	
000000	Upcount. (0> Preset)	
00000 1	Downcount. (Preset> 0)	
Data Reco	ord	
000000	Count value is saved to memory when power is disconnected and restored on power up.	
00000 !	Count value is not saved to memory when power is disconnected. When power up [[] [] [] [] is shown on the screen.	
Sensor Type Selection		
000000	NPN type sensor selected	
00000 1	PNP type sensor selected	
Reset and Set Protection (for Front Panel Access)		
000000	There is no Reset and Set protection	
00000 1	Only RESET Button protection is active. Actual value can not be reset by Reset button.	
000002	SET value can not be changed.	
000003	Full protection; Reset protection is active and SET value can not be changed.	



Program Password

It is used for accessing to the program parameters. It can be adjusted from [[]] to [[]] 199999.

If it is $\boxed{\square\,\square\,\square\,\square\,\square\,\square}$, there is no password protection while accessing to the parameters.

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

If program password is not "0" while accessing to the program parameters;

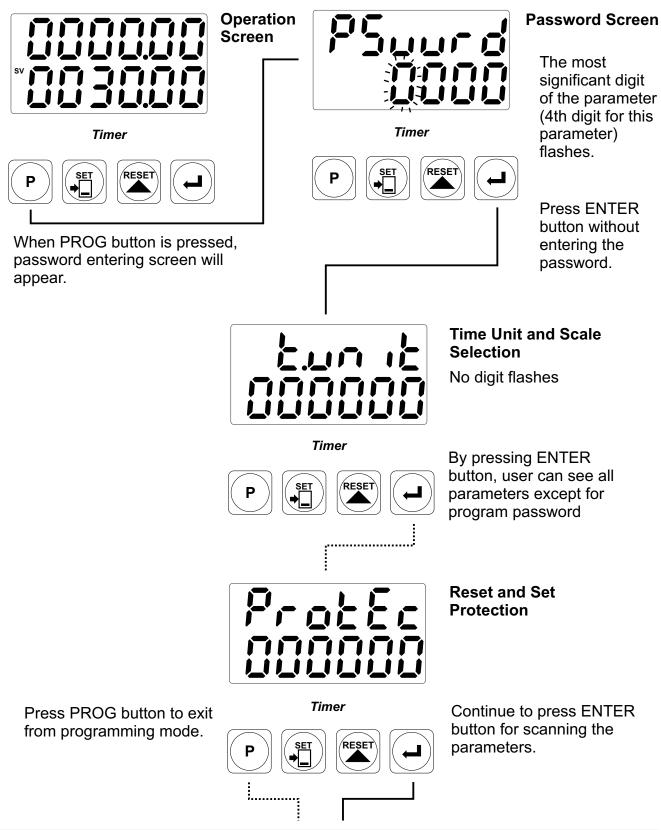
- **1-** If user does not enter the Psuurd value correctly; operation screen will appear without entering to operator parameters.
- **2-**When [5] urd in top display and [10000] in bottom display, if user presses ENTER button without entering password (for observing the parameters):

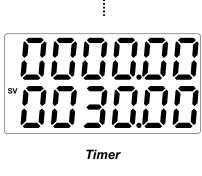
User can see all parameters except Program Password but device does not allow to do any changes with parameters.

6. Failure Messages in EZM-4435 Programmable Timer

1-If the password is not 0, user can access to the parameters without entering the password and by pressing ENTER button.

User can see all parameters except for programming password parameter P_{C} but user can not do any changes in parameters. If password is entered for accessing to the parameters correctly, most significant digit of the parameter flashes. But if the password is not entered, flashing of the most significant digit is not realised.















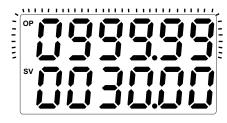




Operation Screen



Time Unit and Scale Selection



Timer



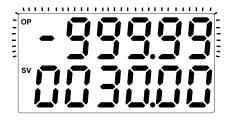






2-If Actual Value is flashing and counting is stopped; It appears if any of the count value is greater than the maximum count value.

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



Timer









3-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.

7. Specifications

Device Type : Programmable Timer

Housing & Mounting : 48mm x 48mm x 87.5 DIN Size 43700 plastic housing for

panel mounting. Panel cut-out is 46x46mm

Protection Class : NEMA 4X (IP65 at front, IP20 at rear).

Weight : Approximately 0.21 Kg.

Environmental Ratings : Standard, indoor at an altitude of less than 2000 meters

with none condensing humidity

Storage / Operating Temperature: -40 °C to +85 °C / 0 °C to +50 °C **Storage / Operating Humidity** : 90 % max. (None condensing)

Installation : Fixed installation

Over Voltage Category : II

Pollution Degree : II, office or workplace, none conductive pollution

Operating Conditions : Continuous

Supply Voltage and Power : 230 V \sim (-%15 / +%10) 50/60 Hz. 2.3VA

115 V ~ (-%15 / +%10) 50/60 Hz. 2.3VA 24 V ~ (-%15 / +%10) 50/60 Hz. 2.3VA

Digital Inputs

Electrical Characteristics : Rated voltage : 16 V=== @ 5mA

Maximum continuous permissible voltage : 30 V===

Logic 1 minimum level : 3 V—— Logic 0 maximum level : 2 V——

Sensor Supply Voltage

Electrical Characteristics : 12V=== ± %40 maximum 50mA

Output Type : Relay Output on Resistive Load 5A@250V ∼

100.000 operation (Full Load)
: 8 mm Red 6 digit LED Display

Set Display : 8 mm Green 6 digit LED Display LED Displays : SV (Set value), OP (Control output) LEDs

Approvals : [Ⅲ, Č €

8. Other Informations

Actual Value Display

Manufacturer Information:

Emko Elektronik Sanavi ve Ticaret A.S.

Demirtaş Organize Sanayi Bölgesi Karanfil Sk. No:6 16369

BURSA/TURKEY

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

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