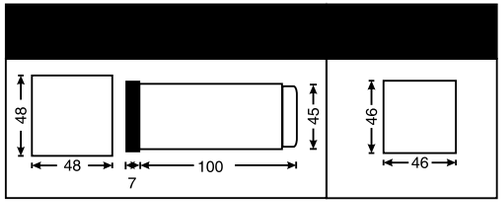
OP120-V04

48 x 48

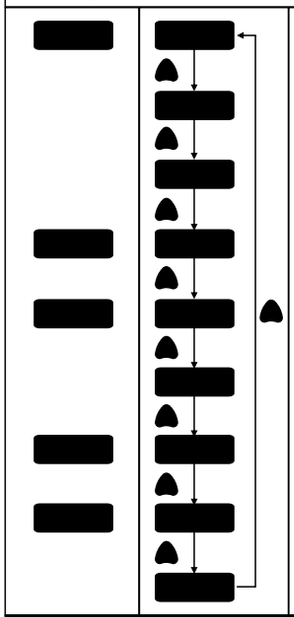
DISPLAY

Dual 4 digit 7 segment LED.
Upper Display(current value) : 0.5” height, Red color
Lower display(selectable) : 0.3” height,



SETTING OF TIMER FUNCTIONS :

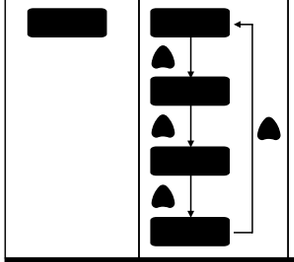
Time range — *Default : 999.9 sec*



Time ranges :
99.99sec, 999.9sec, 9999sec,

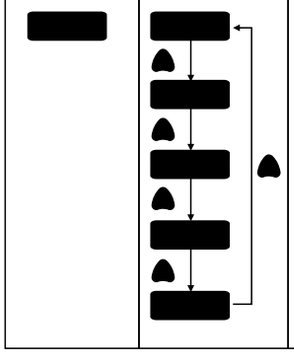
99:59min:sec , 999.9min, 9999min,

99:59hr:min, 999.9hr, 9999hr.



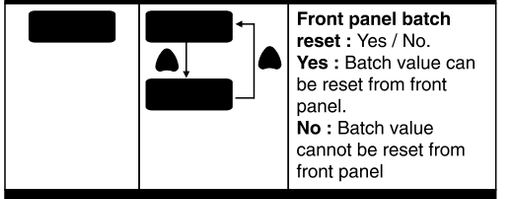
Relay1 operating mode :
ON Delay / Interval / Cyclic ON first / Cyclic OFF first.

NOTE :
Refer waveforms for details.

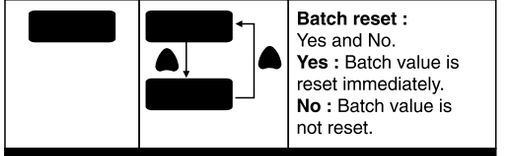


Relay2 operating mode:
ON Delay / Interval / Cyclic ON first / Cyclic OFF first / Batch.

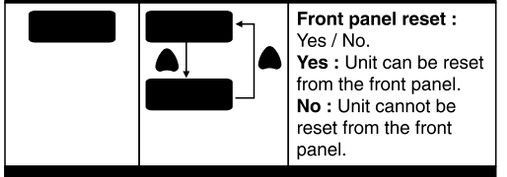
NOTE :
Refer waveforms for details.



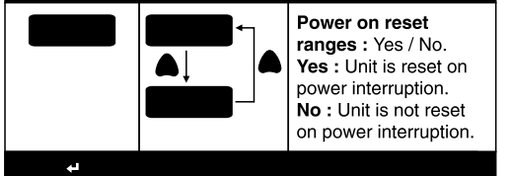
Front panel batch reset : Yes / No.
Yes : Batch value can be reset from front panel.
No : Batch value cannot be reset from front panel



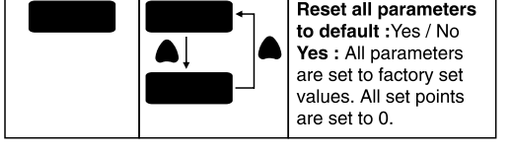
Batch reset :
Yes and No.
Yes : Batch value is reset immediately.
No : Batch value is not reset.



Front panel reset :
Yes / No.
Yes : Unit can be reset from the front panel.
No : Unit cannot be reset from the front panel.



Power on reset ranges : Yes / No.
Yes : Unit is reset on power interruption.
No : Unit is not reset on power interruption.



Reset all parameters to default : Yes / No
Yes : All parameters are set to factory set values. All set points are set to 0.

PROGRAMMING - TIMER

Temporary display :
Lower display shows parameter name for 1sec. and then its value.

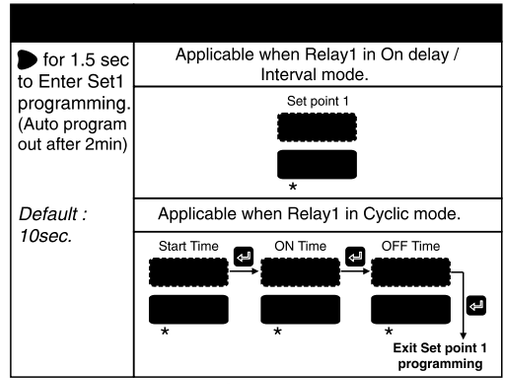
Enter programming as per the given procedure.

To program set points :
Press ▶ to select the digit.
The selected digit blinks. Press ♥ / ▲ key to change its value. Press ↵ key to go to the next parameter (if applicable). If the edited parameter is the last parameter, the unit will quit programming.

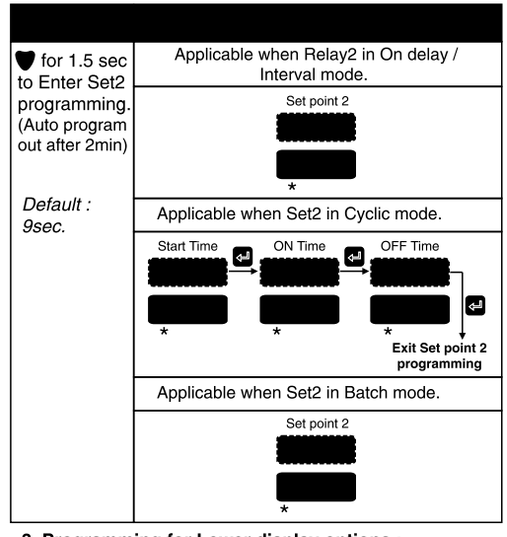
To select lower display options :
Press ♥ / ▲ key to select particular option and then press ↵ key to quit programming.

To select reset option :
Press ♥ / ▲ key to select particular option and then press ↵ key for 1.5 sec to quit programming.

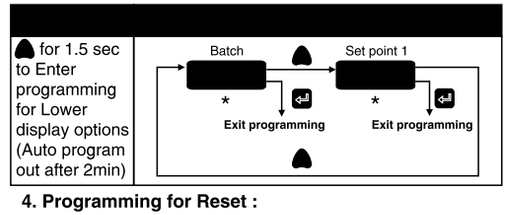
1. Programming for Set point1 :



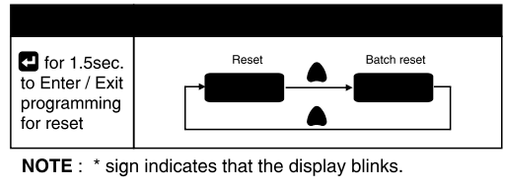
2. Programming for Set point2 :



3. Programming for Lower display options :



4. Programming for Reset :

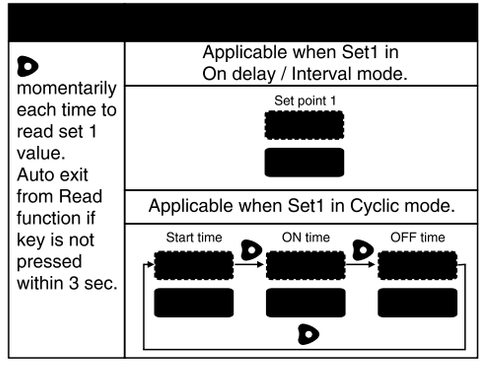


NOTE : * sign indicates that the display blinks.

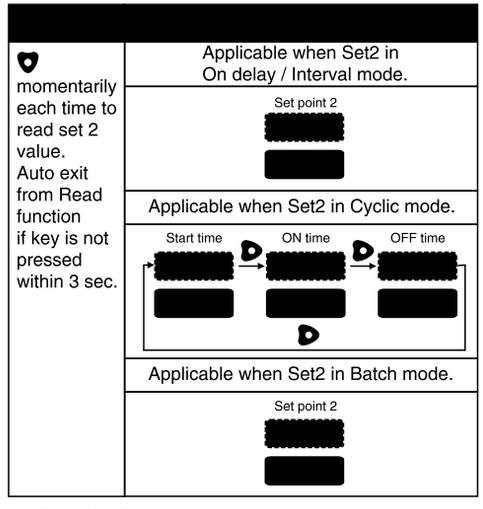
Read Function

Temporary display :
Lower display shows parameter name for 1sec and then its value.

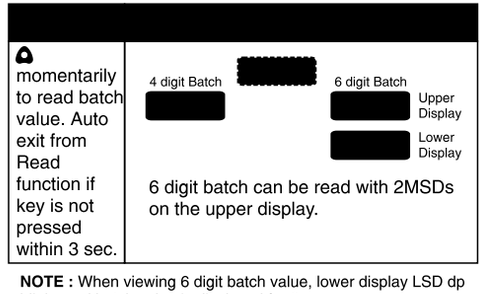
1. Reading of set1 parameters



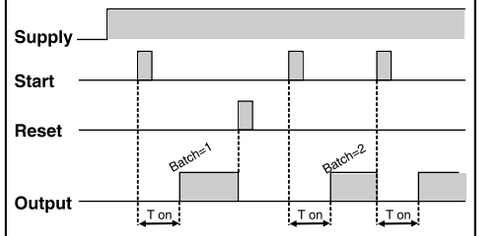
2. Reading of set2 parameters

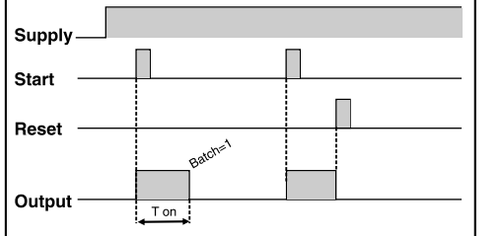


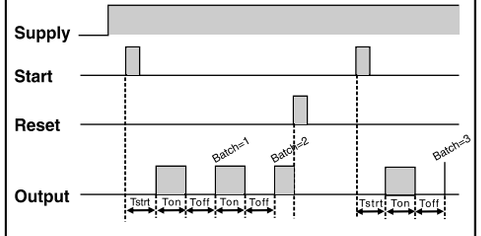
3. Reading Batch

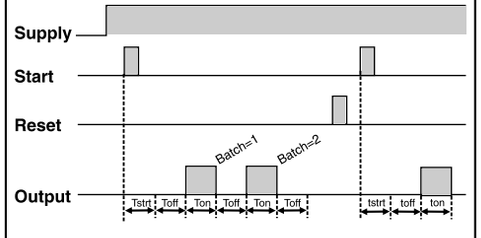


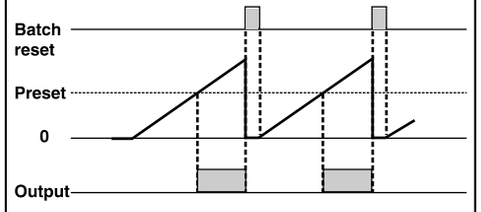
NOTE : When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec.
If lower display is selected as batch and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.











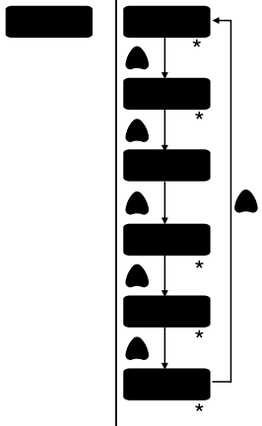
SETTING OF COUNTER FUNCTIONS :

↵



*

↵



*

*

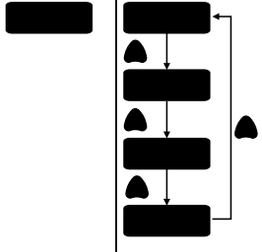
*

*

*

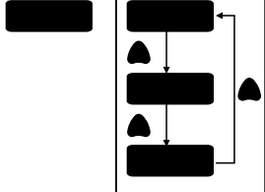
Scale factor Exponent :
0 / 1 / 2 / -3 / -2 / -1.

↵



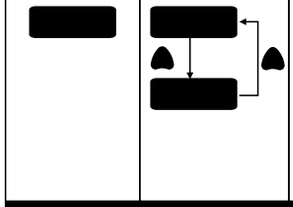
Resolution :
1 / 0.1 / 0.01 / 0.001.

↵



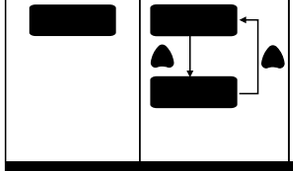
Speed :
3Hz / 30Hz / 5KHz.

↵



Direction :
Up and Down
Up : Counting starts from 0 and proceeds towards set point.
Down : Counting starts from set point and proceeds down to 0.

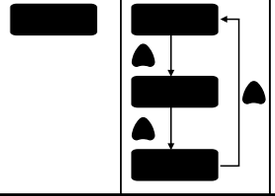
↵



Relay1 operating mode :
ON delay / Interval.

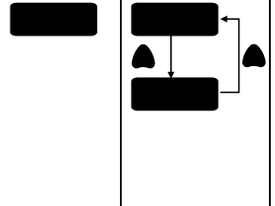
NOTE :
Refer waveforms for details.

↵



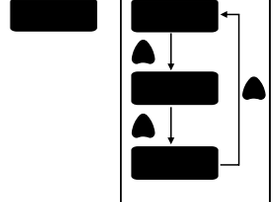
Relay2 mode ranges :
ON delay / Interval / Batch.

↵



Run mode ranges :
Overrun / Non overrun.
Overrun : Counter continues counting above the set point.
Non Overrun : Counter does not count any pulses received after reaching the set point.

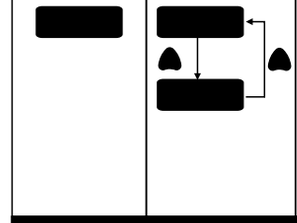
↵



Operating mode ranges:
Delay / Auto reset / Time pulse repeat.

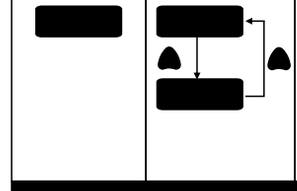
NOTE :
Refer waveforms for details.

↵



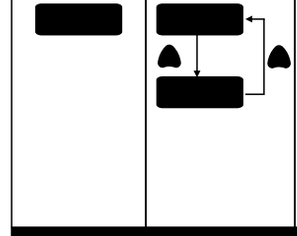
Front panel batch reset : Yes / No.
Yes : Batch value can be reset from front panel.
No : Batch value cannot be reset from front panel

↵



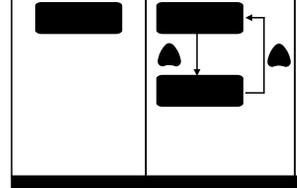
Batch reset :
Yes and No.
Yes : Batch value is reset immediately
No : Batch value not is reset

↵



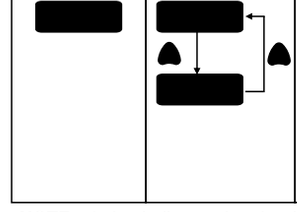
Front panel reset :
Yes / No.
Yes : Unit can be reset from the front panel
No : Unit cannot be reset from the front panel

↵



Power on reset ranges : Yes / No.
Yes : unit is reset at power ON.
No : Unit is not reset at power ON.

↵



Reset all parameters to default : Yes & No
Yes : All parameters are set to factory set values. All set points are set to 0.

NOTE : * sign indicates that the display blinks.

PROGRAMMING - COUNTER

[redacted] → **Temporary display :**
Lower display shows parameter name for 1sec. and then its value.

Enter programming as per the given procedure.

To program set points :

Press ▶ to select the digit. The selected digit blinks. Press ♥ / ▲ key to change its value. Press ↵ key to go to the next parameter (if applicable). If the edited parameter is the last parameter, the unit will quit programming.

To select lower display options :

Press ♥ / ▲ key to select particular option and then press ↵ key to quit programming.

To select reset option :

Press ♥ / ▲ key to select particular option and then press ↵ key for 1.5 sec to quit programming.

1. Programming for Set point 1 :

[redacted]

▶ for 1.5 sec to Enter / Exit online programming for Set1. (Auto program out after 2min)

Default : 100
AR / TPR time = 10sec

Applicable when Set1 in On delay / Interval mode.

Set point 1 → [redacted] → *

Applicable when Set1 in On delay / Interval mode + Auto reset mode.

Set point 1 → Auto reset time → Exit Set point1 programming
* Autoreset time range : 0 to 999.9 sec. *

Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.

Set point 1 → Time pulse repeat → Exit Set point1 programming
* TPR time range : 0 to 999.9 sec. *

2. Programming for Set point 2 :

Note : Set2 should always be less than Set1, except when Set 2 is in Batch mode.

[redacted]

♥ for 1.5 sec to Enter / Exit online programming for Set2. (Auto program out after 2min)

Default : 90.

Applicable when Set2 in On delay / Interval mode.

Set point 2 → [redacted] → *

Applicable when Set2 in Batch mode.

Set point 2 → [redacted] → *

NOTE : * sign indicates that the display blinks.

3. Programming for Lower display options.

[redacted]

▲ for 1.5sec to Enter programming for lower display. (Auto program out after 2min)

Batch → * → Exit programming
Set point 1 → * → Exit programming

4. Programming for Reset.

[redacted]

↵ for 1.5sec to Enter / Exit online programming for reset

Reset → Batch Reset

Read Function

[redacted] → **Temporary display :**
Lower display shows parameter name for 1sec and then its value

1. Reading of set1 parameters

[redacted]

▶ momentarily each time to read Set1 value.

Auto exit from Read function if key is not pressed within 3 sec.

Applicable when Set1 in On delay / Interval mode.

Set point 1 → [redacted]

Applicable when Set1 in On delay / Interval mode + Autoreset mode.

Set point 1 → Autoreset time

Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.

Set point 1 → Time pulse repeat

2. Reading of set2 parameters

[redacted]

♥ momentarily each time to read Set 2 value.
Auto exit from Read function if key is not pressed within 3 sec.

Applicable when Set2 in On delay / Interval mode.

Set point 2 → [redacted]

3. Reading Batch

[redacted]

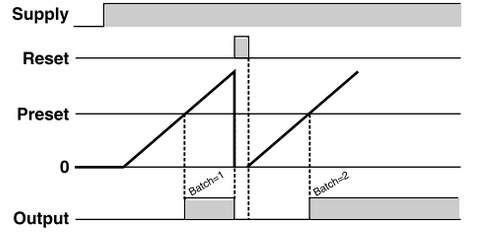
▲ momentarily each time read Set 2 value. Auto exit from Read function if key is not pressed within 3 sec.

4 digit Batch → [redacted]
6 digit Batch → Upper Display [redacted]
Lower Display [redacted]

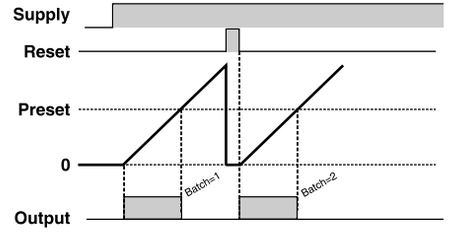
6 digit batch can be read with 2MSDs on the upper display.

NOTE : When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec. If lower display is selected as batch, and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.

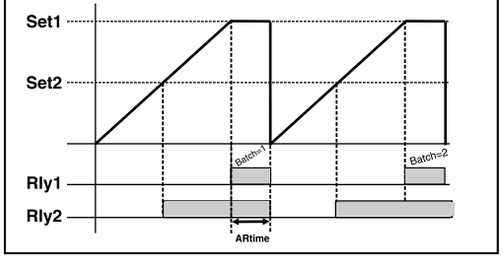
[redacted]



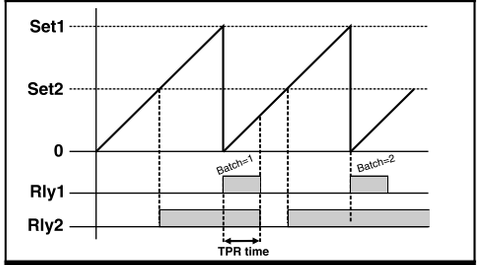
[redacted]



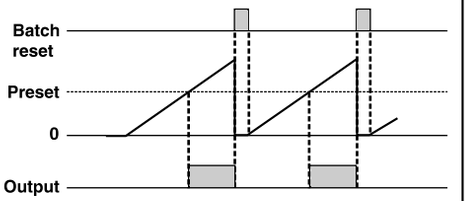
[redacted]



[redacted]



[redacted]



(Specifications subject to change as development is a continuous process.)

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