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 :

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

Default : 10sec.

Applicable when Relay1 in On delay / Interval mode.

Set point 1

*

Applicable when Relay1 in Cyclic mode.

Start Time → ON Time → OFF Time

* * *

Exit Set point 1 programming

2. Programming for Set point2 :

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

Default : 9sec.

Applicable when Relay2 in On delay / Interval mode.

Set point 2

*

Applicable when Set2 in Cyclic mode.

Start Time → ON Time → OFF Time

* * *

Exit Set point 2 programming

Applicable when Set2 in Batch mode.

Set point 2

*

3. Programming for Lower display options :

for 1.5 sec to Enter programming for Lower display options (Auto program out after 2min)

Batch → Set point 1

* *

Exit programming **Exit programming**

4. Programming for Reset :

for 1.5sec. to Enter / Exit programming for reset

Reset → Batch 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

momentarily each time to read set 1 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

Applicable when Set1 in Cyclic mode.

Start time → ON time → OFF time

2. Reading of set2 parameters

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

Applicable when Set2 in Cyclic mode.

Start time → ON time → OFF time

Applicable when Set2 in Batch mode.

Set point 2

3. Reading Batch

momentarily to read batch value. Auto exit from Read function if key is not pressed within 3 sec.

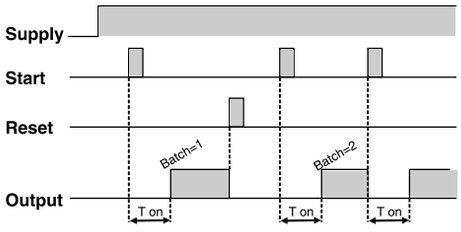
4 digit Batch — 6 digit Batch

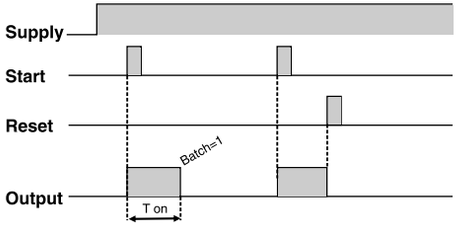
Upper Display

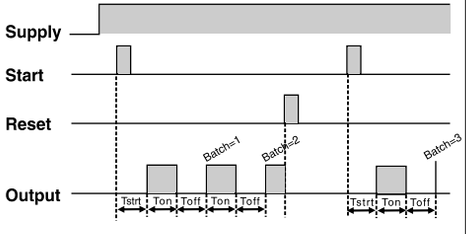
Lower Display

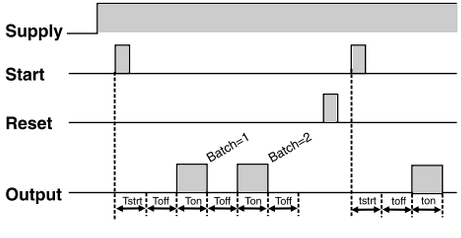
6 digit batch can be read with 2MSDs on the upper display.

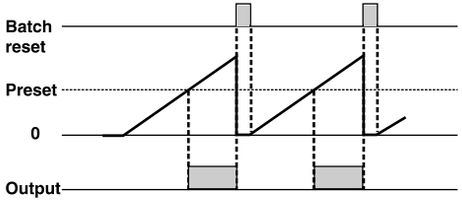
NOTE : When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec.
If lower display is selected as batch and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.



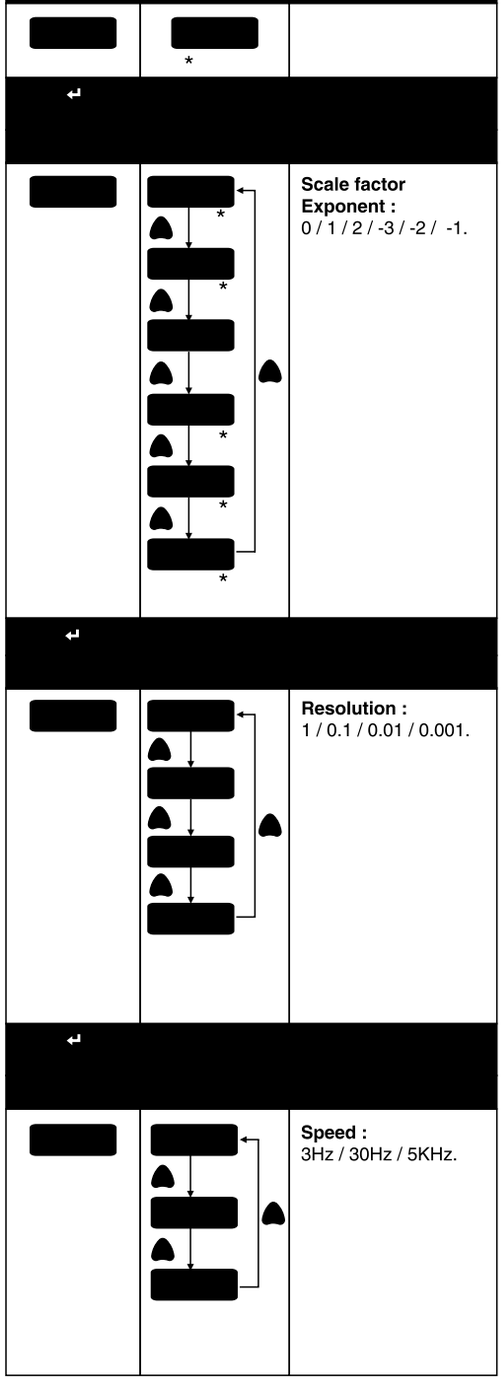








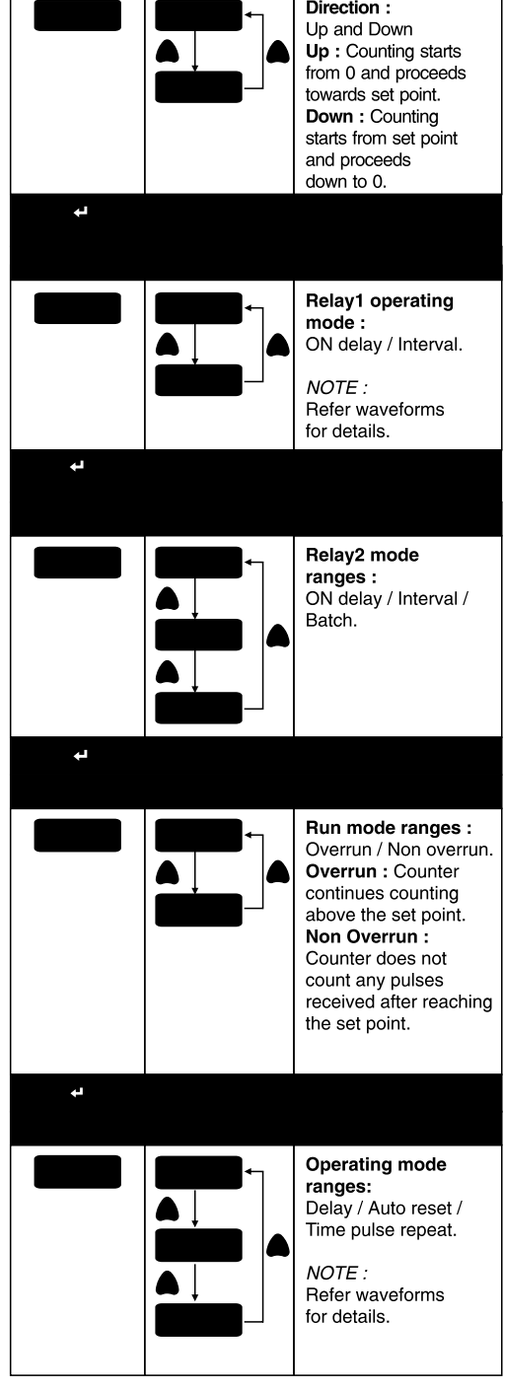
SETTING OF COUNTER FUNCTIONS :



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.

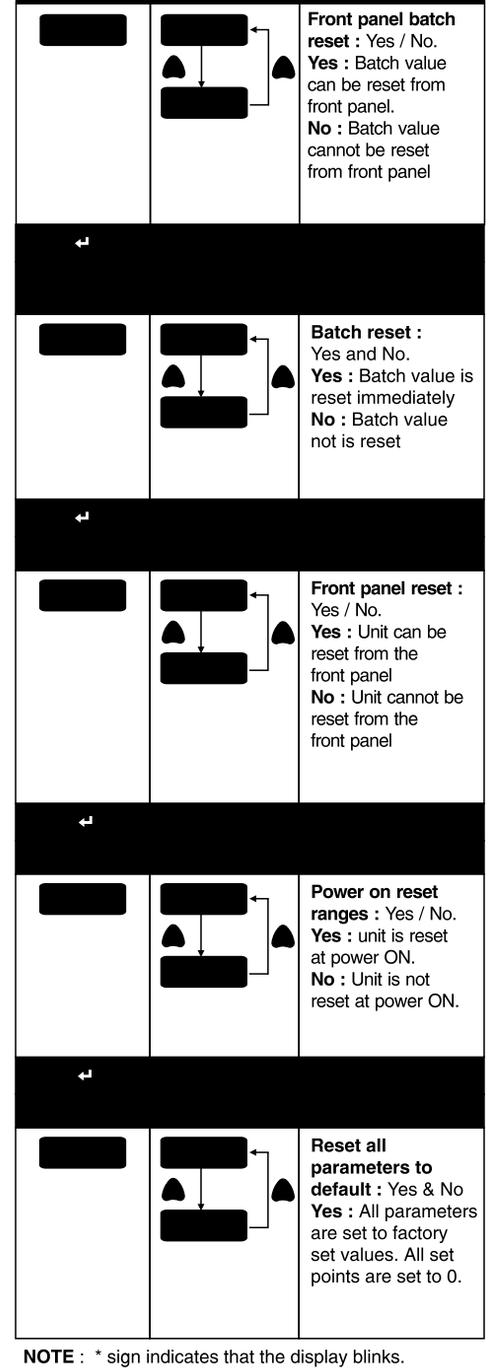
NOTE :
Refer waveforms for details.

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)	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 [redacted] ↵ → Auto reset time [redacted] * * Autoreset time range : 0 to 999.9 sec. → Exit Set point1 programming
Default : 100 AR / TPR time = 10sec	Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.
	Set point 1 [redacted] ↵ → Time pulse repeat [redacted] * * TPR time range : 0 to 999.9 sec. → Exit Set point1 programming

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)	Applicable when Set2 in On delay / Interval mode.
	Set point 2 [redacted] *
	Applicable when Set2 in Batch mode.
Default : 90.	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 [redacted] * ↵ → Exit programming ▲ Set point 1 [redacted] * ↵ → Exit programming

4. Programming for Reset.

[redacted]

↵ for 1.5sec to Enter / Exit online programming for reset	Reset [redacted] ▲ Batch Reset [redacted] ▲

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 [redacted] ▶ → Autoreset time [redacted] ▶
	Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.
	Set point 1 [redacted] ▶ → Time pulse repeat [redacted] ▶

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]

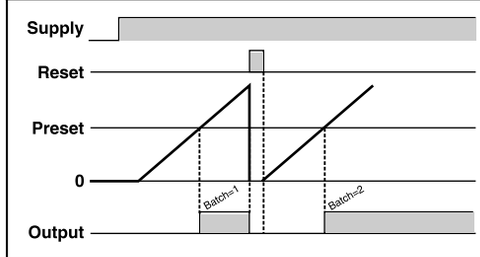
3. Reading Batch

[redacted]

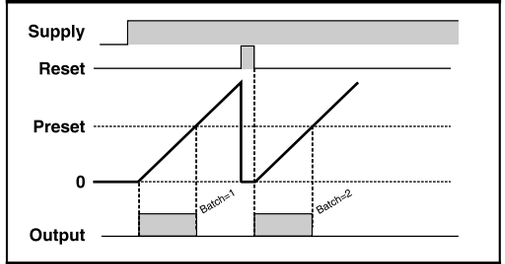
▲ momentarily each time read Set 2 value. Auto exit from Read function if key is not pressed within 3 sec.	4 digit Batch [redacted] [redacted] 6 digit Batch [redacted] Upper Display [redacted] Lower Display 6 digit batch can be read with 2MSDs on the upper display.

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.

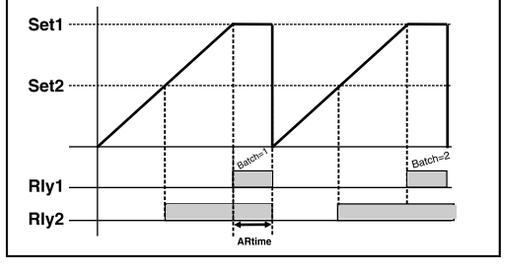
[redacted]



[redacted]



[redacted]



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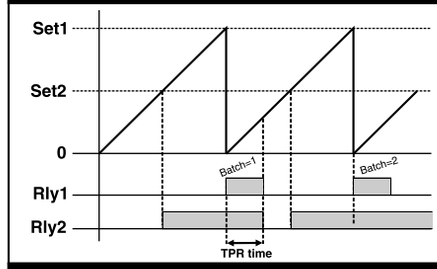

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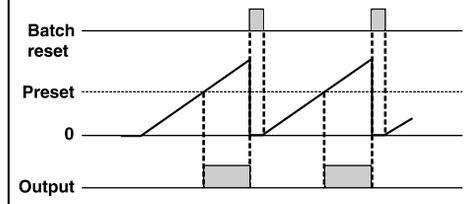

(Specifications subject to change as development is a continuous process.)

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