SETTING OF TIMER FUNCTIONS :

Upper Display	Lower Display	Description
Press ↵ key to enter programming for Time range.		
Time range		*Default : 999.9 sec*
SEC	99.99 → 999.9 → 9999 → 99.59 → 999.9 → 9999 → 99.59 → 999.9 → 9999	**Time ranges :** 99.99sec, 999.9sec, 9999sec, 99:59min:sec , 999.9min, 9999min, 99:59hr:min, 999.9hr, 9999hr.
M.SEC		
MIN		
HR.MIN		
HOUR		
Press ↵ key to enter programming for Relay 1 operating mode		
Relay 1 operating mode.		*Default : ON Delay*
RLY1	ON → INt → CY.ON → CY.OF	**Relay1 operating mode :** ON Delay / Interval / Cyclic ON first / Cyclic OFF first. *NOTE :* Refer waveforms for details.
Press ↵ key to enter programming for Relay 2 operating mode		
Relay 2 operating mode.		*Default : ON Delay*
RLY2	ON → INt → CY.ON → CY.OF → bTCH	**Relay2 operating mode:** ON Delay / Interval / Cyclic ON first / Cyclic OFF first / Batch. *NOTE :* Refer waveforms for details.

Upper Display	Lower Display	Description
Press ↵ key to enter programming for front panel batch reset		
Front panel batch reset.		*Default : Yes*
FPbR	YES → NO	**Front panel batch reset :** Yes / No. **Yes :** Batch value can be reset from front panel. **No :** Batch value cannot be reset from front panel
Press ↵ key to enter programming for Batch reset		
Batch reset NOTE : Prompted only if Front panel batch reset is No.		*Default : No*
brSt	YES → NO	**Batch reset :** Yes and No. **Yes :** Batch value is reset immediately. **No :** Batch value is not reset.
Press ↵ key to enter programming for Front panel reset		
Front panel reset		*Default : Yes*
FPn	YES → NO	**Front panel reset :** Yes / No. **Yes :** Unit can be reset from the front panel. **No :** Unit cannot be reset from the front panel.
Press ↵ key to enter programming for Power on reset		
Power on reset		*Default : No*
POn	NO → YES	**Power on reset ranges :** Yes / No. **Yes :** Unit is reset on power interruption. **No :** Unit is not reset on power interruption.
Press ↵ key to enter programming for Reset all		
Reset all parameters to default		*Default : No*
dFLt	NO → YES	**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 :

Press Key	Lower Display
▶ for 1.5 sec to Enter Set1 programming. (Auto program out after 2min)	Applicable when Relay1 in On delay / Interval mode.
	Set point 1 → SEt 1 → 1234 *
Default : 10sec.	Applicable when Relay1 in Cyclic mode.
	Start Time → 1-St → 1234 * ; ON Time → 1-On → 1234 * ; OFF Time → 1-OF → 1234 * ; Exit Set point 1 programming

2. Programming for Set point2 :

Press Key	Lower Display
♥ for 1.5 sec to Enter Set2 programming. (Auto program out after 2min)	Applicable when Relay2 in On delay / Interval mode.
	Set point 2 → SEt2 → 1234 *
Default : 9sec.	Applicable when Set2 in Cyclic mode.
	Start Time → 2-St → 1234 * ; ON Time → 2-On → 1234 * ; OFF Time → 2-OF → 1234 * ; Exit Set point 2 programming
	Applicable when Set2 in Batch mode.
	Set point 2 → SEt2 → 1234 *

3. Programming for Lower display options :

Press Key	Lower Display
▲ for 1.5 sec to Enter programming for Lower display options (Auto program out after 2min)	Batch → bTCH * Exit programming ; Set point 1 → SEt 1 * Exit programming

4. Programming for Reset :

Press Key	Lower Display
↵ for 1.5sec. to Enter / Exit programming for reset	Reset → rSt ; Batch reset → brSt

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

Press Key	Lower Display
▶ 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 → SEt 1 → 1234
	Applicable when Set1 in Cyclic mode.
	Start time → 1-St ▶ ON time → 1-On ▶ OFF time → 1-OF ; 1234 1234 1234 ▶

2. Reading of set2 parameters

Press Key	Lower Display
♥ 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 → SEt2 → 1234
	Applicable when Set2 in Cyclic mode.
	Start time → 2-St ▶ ON time → 2-On ▶ OFF time → 2-OF ; 1234 1234 1234 ▶
	Applicable when Set2 in Batch mode.
	Set point 2 → SEt2 → 1234

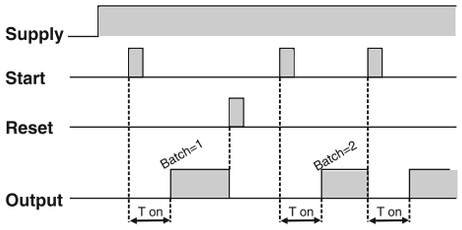
3. Reading Batch

Press Key	Lower Display
▲ momentarily to read batch value. Auto exit from Read function if key is not pressed within 3 sec.	4 digit Batch 1234 ; bTCH ; 6 digit Batch → Upper Display 12 ; Lower Display 3456
	6 digit batch can be read with 2MSDs on the upper display.

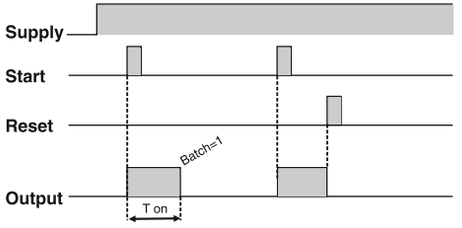
NOTE : When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec.
If lower display is selected as batch and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.

TIMER MODE

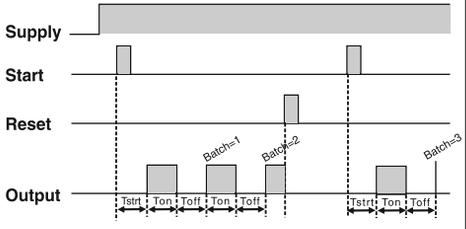
1. On delay



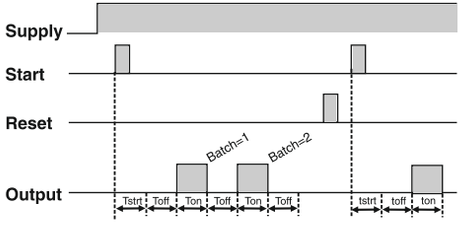
2. Interval



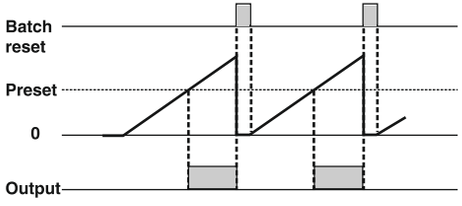
3. Cyclic ON - First



4. Cyclic OFF - First



5. Batch mode



SETTING OF COUNTER FUNCTIONS :

Upper Display	Lower Display	Description
Press ↵ key to enter programming for Scale factor mantissa		
Scale factor mantissa		*Default : 1.000*
SCL	1.000 *	
Press ↵ key to enter programming for Scale factor Exponent		
Scale factor Exponent		*Default : 0*
EPn	0 * / 1 * / 2 * / -3 * / -2 * / -1 *	**Scale factor Exponent :** 0 / 1 / 2 / -3 / -2 / -1.
Press ↵ key to enter programming for Resolution		
Resolution		*Default : 1*
rESL	1 / 0.1 / 0.01 / 0.001	**Resolution :** 1 / 0.1 / 0.01 / 0.001.
Press ↵ key to enter programming for Maximum input speed.		
Maximum input speed.		*Default : 30Hz*
SPd	5000 / 3 / 30	**Speed :** 3Hz / 30Hz / 5KHz.

Upper Display	Lower Display	Description
Press ↵ key to enter programming for Counting Direction		
Counting Direction		*Default : UP*
dIRn	UP / doWn	**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.
Press ↵ key to enter programming for Relay 1 operating mode		
Relay 1 operating mode		*Default : ON Delay*
rLY1	ON / INt	**Relay1 operating mode :** ON delay / Interval. *NOTE :* Refer waveforms for details.
Press ↵ key to enter programming for Relay 2 operating mode		
Relay 2 operating mode		*Default : ON Delay*
rLY2	ON / INt / btCH	**Relay2 mode ranges :** ON delay / Interval / Batch.
Press ↵ key to enter programming for Run mode		
Run mode		*Default : Over run*
run	Or / nOr	**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.
Press ↵ key to enter programming for Operating mode		
Operating mode		*Default : Delay*
nodE	dLY / AP / tPn	**Operating mode ranges:** Delay / Auto reset / Time pulse repeat. *NOTE :* Refer waveforms for details.

Upper Display	Lower Display	Description
Press ↵ key to enter programming for Front panel batch reset		
Front panel batch reset		*Default : Yes*
FPbr	YES / NO	**Front panel batch reset :** Yes / No. **Yes :** Batch value can be reset from front panel. **No :** Batch value cannot be reset from front panel
Press ↵ key to enter programming for Batch reset		
Batch reset		*Default : No*
NOTE : Prompted only if Front panel batch reset is No.		
brSt	NO / YES	**Batch reset :** Yes and No. **Yes :** Batch value is reset immediately **No :** Batch value not is reset
Press ↵ key to enter programming for Front panel reset.		
Front panel reset.		*Default : Yes*
FPr	YES / NO	**Front panel reset :** Yes / No. **Yes :** Unit can be reset from the front panel **No :** Unit cannot be reset from the front panel
Press ↵ key to enter programming for Power on reset.		
Power on reset.		*Default : No*
Por	NO / YES	**Power on reset ranges :** Yes / No. **Yes :** unit is reset at power ON. **No :** Unit is not reset at power ON.
Press ↵ key to enter programming for Reset all.		
Reset all parameters to default		*Default : No*
dFLt	NO / YES	**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

⟶ **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 :

Press Key	Lower Display
▶ 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 → SEt 1 → 1234 *
	Applicable when Set1 in On delay / Interval mode + Auto reset mode.
	Set point 1 SEt 1 → Auto reset time AR → 1234 * 1234 * 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 SEt 1 → Time pulse repeat tPR → 1234 * 1234 * 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.

Press Key	Lower Display
▼ 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 → SEt2 → 1234 *
	Applicable when Set2 in Batch mode.
Default : 90.	Set point 2 → SEt2 → 1234 *

NOTE : * sign indicates that the display blinks.

3. Programming for Lower display options.

Press Key	Lower Display
▲ for 1.5sec to Enter programming for lower display. (Auto program out after 2min)	Batch → btCH * Exit programming ; Set point 1 → SEt 1 * Exit programming ; ▲

4. Programming for Reset.

Press Key	Lower Display
↵ for 1.5sec to Enter / Exit online programming for reset	Reset → rSt ; Batch Reset → brSt ; ▲

Read Function

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

1. Reading of set1 parameters

Press Key	Lower Display
▶ 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 → SEt 1 → 1234
	Applicable when Set1 in On delay / Interval mode + Autoreset mode.
	Set point 1 SEt 1 ▶ Autoreset time AR → 1234 1234 ▶
	Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.
	Set point 1 SEt 1 ▶ Time pulse repeat tPR → 1234 1234 ▶

2. Reading of set2 parameters

Press Key	Lower Display
▼ 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 → SEt2 → 1234

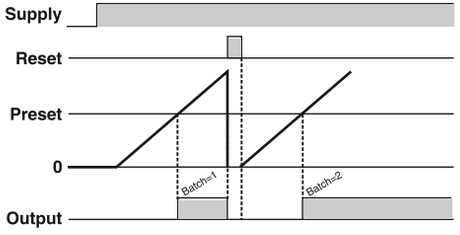
3. Reading Batch

Press Key	Lower Display
▲ momentarily each time read Set 2 value. Auto exit from Read function if key is not pressed within 3 sec.	4 digit Batch 1234 ; btCH ; 6 digit Batch 12 Upper Display ; 3456 Lower Display ; 6 digit batch can be read with 2MSDs on the upper display.

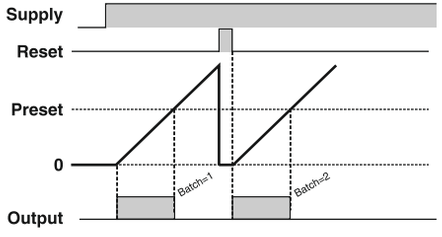
NOTE : When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec. If lower display is selected as batch, and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.

COUNTER MODE

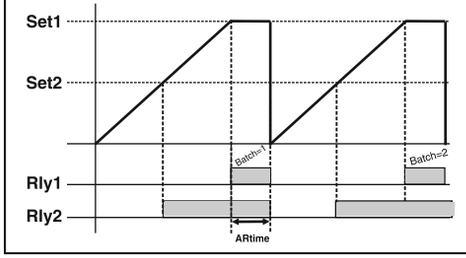
1. ON Delay (Overrun mode)



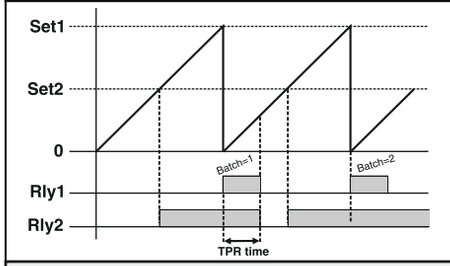
2. Interval (Overrun mode)



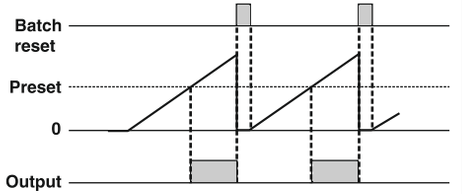
3. Auto Reset (Non Overrun mode)



4. Time Pulse Reset (Non Overrun mode)



5. Batch mode



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

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