

**selec****XTC5400**

Operating Instructions



48 x 48

Please maintain these instructions and review them prior to using the unit :

**Warning :**

1. This unit is panel mounted type with its output terminals getting connected to the host equipment. Such equipment shall also comply with basic EMI/EMC and safety requirements like BS EN 61326-1 and BS EN 61010 respectively.
  2. To avoid electric shock, power supply of the unit should be kept off while wiring. Wiring should be done strictly as per the terminal layout, given in the manual.
  3. Use lugged terminals to meet M3.5 screws.
  4. The unit does not have a built-in fuse. External fuse with a rating of 275V AC/1A is recommended.
- Caution :**
1. This unit is not intended for outdoor use.
  2. The power connection cable must have a cross section of at least 1mm<sup>2</sup> and insulation capacity of at least 1.5kV.
  3. The output connections must not be loaded beyond the specified values/range.
  4. Avoid inflow of dust and contact of conductive material with the internal circuitry of the unit.
  5. The unit must not operate in presence of heating sources, caustic vapors, oil, steam, vibration or impact etc.
  6. Use clean moist cloth soaked in water for cleaning. Care must be taken to avoid entry of water into the circuitry through the ventilation holes.

**SPECIFICATIONS****DISPLAY**

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

**SUPPLY VOLTAGE (Factory Set)**

90 to 270V AC/DC, 50/60Hz.  
24V AC/DC

**OPERATING MODES**

**Timer** : Relay 1 : On delay, Interval, Cyclic On first, Cyclic Off first.

Relay 2 : On delay, Interval, Cyclic On first, Cyclic Off first, Batch.

**Counter** : Relay 1 : On delay, Interval, Auto reset, Time pulse repeat.

Relay 2 : On delay, Interval, Auto reset, Time pulse repeat, Batch.

**TIME RANGES**

**Timer** : 99.99 / 999.9 / 9999sec,  
99:59min : sec,  
999.9 / 9999min,  
99:59hr : min 999.9 / 9999hr.

**Counter** : -999 to 9999 counts.

**RESOLUTION**

0.001, 0.01, 0.1, 1.

**DIRECTION**

Timer - Down.

Counter - Up / Down.

**LED INDICATIONS**

Output status, sec, min, hr.

**SET POINTS**

Dual.

**START INPUT**

Pulse start.

**SENSOR INPUTS**

3 to 30V DC from Proximity switches, Encoders,  
Potential free contacts.

**SENSOR SUPPLY**

12V DC, 30mA (Short circuit protected).

**INPUT SPEED**

3 Hz, 30 Hz, 5 kHz.

**SCALE FACTOR**

0.001 to 9.999 x 10<sup>n</sup>

Where n = -3, -2, -1, 0, 1, 2.

**RESET**

On power interruption, Front panel reset,  
Terminal reset.

**OUTPUT**

2 NO

**RELAY RATING**

5A@230V AC

**MEMORY RETENTION**

10 years.

**ACCURACY**

**Timer** : ±0.05% of setting or  
50msec whichever is greater.

**MOUNTING**

Panel Mounting

**TEMPERATURE**

Operating : 0°C to 50°C

Storage : -20°C to 75°C

Humidity : 95% max.

**HOUSING**

Flame retardant plastic.

**WEIGHT**

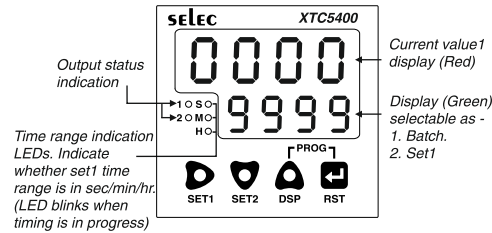
175 grams (approx).

**MECHANICAL INSTALLATION**

| OUTLINE<br>Dimensions (in mm) | PANEL CUTOUT<br>Dimensions (in mm) |
|-------------------------------|------------------------------------|
|                               |                                    |

**TERMINAL CONNECTIONS**

| DESCRIPTION     | TERMINAL |
|-----------------|----------|
| L (Live)        | 1        |
| NO 1 - COM 1    | 2-3      |
| NO 2 - COM 2    | 4-5      |
| N(Neutral)      | 6        |
| RESET input     | 7        |
| +12V            | 8        |
| START/CNT input | 9        |
| COM (GND)       | 10       |

**FRONT PANEL DESCRIPTION**

| KEYS | FUNCTIONS                                                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | Enter / Exit configuration mode                                                                                                                                        |
|      | 1. Selects the digit to be altered. Selected digit blinks. With every press of  key, next digit towards the right starts blinking.<br>2. Programming for Set1.         |
|      | 1. Decrements value of blinking digit.<br>2. Scrolls down to previous option for configuration parameter.<br>3. Programming for set 2.                                 |
|      | 1. Increments value of blinking digit.<br>2. Scrolls up to next option for configuration parameter.<br>3. Programming lower display options<br>4. Display Batch value. |
|      | 1. Scrolls to next config. parameter and stores for previous parameter setting.<br>2. Front panel RST.                                                                 |

**JUMPER SELECTION FOR INPUT SENSOR :**

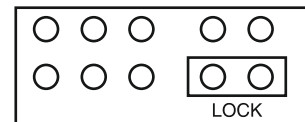
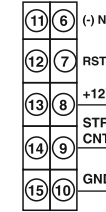
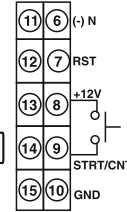
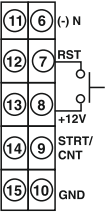
| INPUT SENSOR                 | JUMPER SELECTION                                                                                                         |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                              | Jumpers are located on the top side of the unit. Top view of jumpers with housing removed and display towards the right. |
| PNP / Potential free contact |                                                                                                                          |
| NPN                          |                                                                                                                          |

**NOTE** : Same jumper selections remain valid for giving start pulse when using XTC5400 in Timer function.

**JUMPER SELECTION TO DISABLE LOCK :**

If the lock password is forgotten / lock feature is not required, connect jumpers as in fig. below to disable lock function. These Jumpers are located towards the right of the jumpers for sensor selection.

(Top view of jumpers with housing removed and display on right)

**INPUT CONNECTIONS****Proximity switch****Potential free contact****Reset**

**NOTE** : Color codes for proximity sensors -  
Brown / Red --> +12V,  
Black / Green --> CNT,  
Blue / Black --> GND

**SCALE FACTOR**

Programmable scale factor facilitates display in desired engineering unit. The number of count pulses received are multiplied with the scale factor and the result is displayed as shown :

**Display = Number of pulses received x scale factor**

Scale factor consists of two parts - mantissa & exponent. Mantissa can be set from 0.001 to 9.999 and exponent from -3 to +2. The scale factor value is arrived at as :

**Scale factor = Mantissa x 10<sup>Exponent</sup>**

**CONFIGURATION SCHEME :**

**NOTE** : 1. Press to go to the next programming step and store the current programmed value in EEPROM.  
2. If no key is pressed for 2min, the unit will auto-exit from configuration.

| Upper Display                                                         | Lower Display | Description                                                                                                                                     |
|-----------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Press  +  keys to enter configuration                                 |               |                                                                                                                                                 |
| Configuration Lock <span style="float: right;">Default : 0000.</span> |               |                                                                                                                                                 |
|                                                                       |               | The configuration cannot be changed unless a valid lock ID is entered. Press  to select the digit and  /  to change value of the selected digit |
| Press  +  keys to enter configuration                                 |               |                                                                                                                                                 |
| Function                                                              |               |                                                                                                                                                 |
|                                                                       |               | Function -<br>Timer / Counter<br><b>Timer</b> : Unit functions as a timer<br><b>Counter</b> : Unit functions as a counter                       |

## SETTING OF TIMER FUNCTIONS :

| Upper Display                                              | Lower Display | Description                                                                                                                                                         |
|------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Press  key to enter programming for Time range.            |               |                                                                                                                                                                     |
| Time range                                                 |               | Default : 999.9 sec                                                                                                                                                 |
|                                                            |               | <b>Time ranges :</b><br>99.99sec, 999.9sec, 9999sec,<br><br>99:59min:sec ,<br>999.9min, 9999min,<br><br>99:59hr:min,<br>999.9hr, 9999hr.                            |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
| Press  key to enter programming for Relay 1 operating mode |               |                                                                                                                                                                     |
| Relay 1 operating mode.                                    |               | Default : ON Delay                                                                                                                                                  |
|                                                            |               | <b>Relay1 operating mode :</b><br>ON Delay / Interval /<br>Cyclic ON first /<br>Cyclic OFF first.<br><br><b>NOTE :</b><br>Refer waveforms<br>for details.           |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
| Press  key to enter programming for Relay 2 operating mode |               |                                                                                                                                                                     |
| Relay 2 operating mode.                                    |               | Default : ON Delay                                                                                                                                                  |
|                                                            |               | <b>Relay2 operating mode:</b><br>ON Delay / Interval /<br>Cyclic ON first /<br>Cyclic OFF first /<br>Batch.<br><br><b>NOTE :</b><br>Refer waveforms<br>for details. |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |
|                                                            |               |                                                                                                                                                                     |

| Upper Display                                                                                                                                | Lower Display                                                                                                                                                                                                                                                     | Description                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Press  key to enter programming for front panel batch reset |                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
| Front panel batch reset.                                                                                                                     |                                                                                                                                                                                                                                                                   | Default : Yes                                                                                                                                                     |
|                                                             | <br><br>       | <b>Front panel batch reset :</b> Yes / No.<br><b>Yes :</b> Batch value can be reset from front panel.<br><b>No :</b> 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.                                                                                       |                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
|                                                             | <br><br>       | <b>Batch reset :</b><br>Yes and No.<br><b>Yes :</b> Batch value is reset immediately.<br><b>No :</b> Batch value is not reset.                                    |
| Press  key to enter programming for Front panel reset       |                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
| Front panel reset                                                                                                                            |                                                                                                                                                                                                                                                                   | Default : Yes                                                                                                                                                     |
|                                                             | <br><br>       | <b>Front panel reset :</b><br>Yes / No.<br><b>Yes :</b> Unit can be reset from the front panel.<br><b>No :</b> Unit cannot be reset from the front panel.         |
| Press  key to enter programming for Power on reset          |                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
| Power on reset                                                                                                                               |                                                                                                                                                                                                                                                                   | Default : No                                                                                                                                                      |
|                                                            | <br><br>  | <b>Power on reset ranges :</b> Yes / No.<br><b>Yes :</b> Unit is reset on power interruption.<br><b>No :</b> Unit is not reset on power interruption.             |
| Press  key to enter programming for Reset all             |                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
| Reset all parameters to default                                                                                                              |                                                                                                                                                                                                                                                                   | Default : No                                                                                                                                                      |
|                                                           | <br><br> | <b>Reset all parameters to default :</b> Yes / No<br><b>Yes :</b> 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.<br><br>Set point 1<br> |
| <i>Default : 10sec.</i>                                              | Applicable when Relay1 in Cyclic mode.<br><br>Start Time  OFF Time<br>     |
|                                                                      | 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.<br><br>Set point 2<br> |
| <i>Default : 9sec.</i>                                               | Applicable when Set2 in Cyclic mode.<br><br>Start Time  OFF Time<br>       |
|                                                                      | Exit Set point 2 programming                                               |
|                                                                      | Applicable when Set2 in Batch mode.<br><br>Set point 2<br>                 |

### 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  Set point 1<br>Exit programming Exit programming |

### 4. Programming for Reset :

| Press Key                                         | Lower Display      |
|---------------------------------------------------|--------------------|
| 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

| 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.<br><br>Set point 1<br> |
|                                                                                                             | Applicable when Set1 in Cyclic mode.<br><br>Start time  OFF time<br>     |
|                                                                                                             |                                                                          |
|                                                                                                             |                                                                          |

### 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.<br><br>Set point 2<br> |
|                                                                                                             | Applicable when Set2 in Cyclic mode.<br><br>Start time  OFF time<br>     |
|                                                                                                             |                                                                          |
|                                                                                                             | Applicable when Set2 in Batch mode.<br><br>Set point 2<br>               |

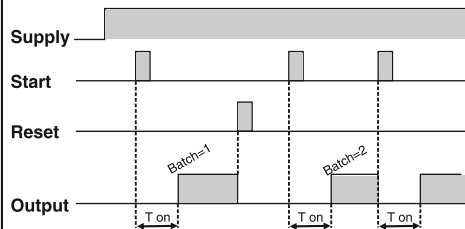
### 3. Reading Batch

| 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  6 digit Batch                               |
|                                                                                                   | Upper Display                                              |
|                                                                                                   | Lower Display                                              |
|                                                                                                   | 6 digit batch can be read with 2MSDs on the upper display. |

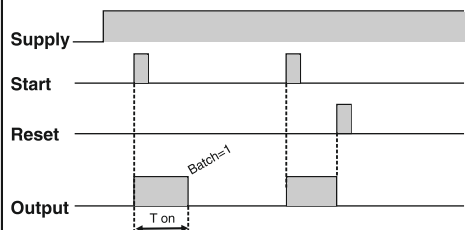
**NOTE :** When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec.  
If lower display is selected as batch and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.

## TIMER MODE

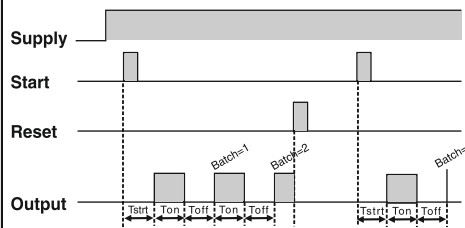
### 1. On delay



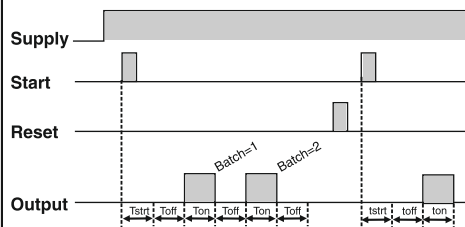
### 2. Interval



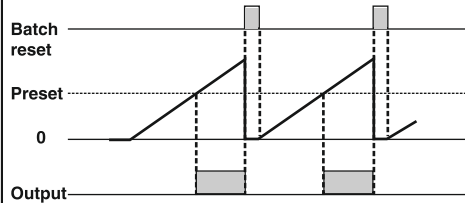
### 3. Cyclic ON - First



### 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                                   |
|                                                           |               |                                                   |
| Press  key to enter programming for Scale factor Exponent |               |                                                   |
| Scale factor Exponent                                     |               | Default : 0                                       |
|                                                           |               | Scale factor Exponent : 0 / 1 / 2 / -3 / -2 / -1. |
| Press  key to enter programming for Resolution            |               |                                                   |
| Resolution                                                |               | Default : 1                                       |
|                                                           |               | Resolution : 1 / 0.1 / 0.01 / 0.001.              |
| Press  key to enter programming for Maximum input speed.  |               |                                                   |
| Maximum input speed.                                      |               | Default : 30Hz                                    |
|                                                           |               | Speed : 3Hz / 30Hz / 5KHz.                        |

| Upper Display                                              | Lower Display | Description                                                                                                                                                                                     |
|------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Press  key to enter programming for Counting Direction     |               |                                                                                                                                                                                                 |
| Counting Direction                                         |               | Default : UP                                                                                                                                                                                    |
|                                                            |               | Direction : Up and Down<br>Up : Counting starts from 0 and proceeds towards set point.<br>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                                                                                                                                                                              |
|                                                            |               | Relay1 operating mode : ON delay / Interval.<br>NOTE : Refer waveforms for details.                                                                                                             |
| Press  key to enter programming for Relay 2 operating mode |               |                                                                                                                                                                                                 |
| Relay 2 operating mode                                     |               | Default : ON Delay                                                                                                                                                                              |
|                                                            |               | Relay2 mode ranges : ON delay / Interval / Batch.                                                                                                                                               |
| Press  key to enter programming for Run mode               |               |                                                                                                                                                                                                 |
| Run mode                                                   |               | Default : Over run                                                                                                                                                                              |
|                                                            |               | Run mode ranges : Overrun / Non overrun.<br>Overrun : Counter continues counting above the set point.<br>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                                                                                                                                                                                 |
|                                                            |               | Operating mode ranges : Delay / Auto reset / Time pulse repeat.<br>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                                                                                                                                |
|                                                             |               | Front panel batch reset : Yes / No.<br>Yes : Batch value can be reset from front panel.<br>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.      |               |                                                                                                                                              |
|                                                             |               | Batch reset : Yes and No.<br>Yes : Batch value is reset immediately<br>No : Batch value not is reset                                         |
| Press  key to enter programming for Front panel reset.      |               |                                                                                                                                              |
| Front panel reset.                                          |               | Default : Yes                                                                                                                                |
|                                                             |               | Front panel reset : Yes / No.<br>Yes : Unit can be reset from the front panel<br>No : Unit cannot be reset from the front panel              |
| Press  key to enter programming for Power on reset.         |               |                                                                                                                                              |
| Power on reset.                                             |               | Default : No                                                                                                                                 |
|                                                             |               | Power on reset ranges : Yes / No.<br>Yes : unit is reset at power ON.<br>No : Unit is not reset at power ON.                                 |
| Press  key to enter programming for Reset all.              |               |                                                                                                                                              |
| Reset all parameters to default                             |               | Default : No                                                                                                                                 |
|                                                             |               | Reset all parameters to default : Yes & No<br>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 **[Enter]** to select the digit. The selected digit blinks.  
Press **[Up]** / **[Down]** key to change its value. Press **[Enter]** 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 **[Up]** / **[Down]** key to select particular option and then press **[Enter]** key to quit programming.

### To select reset option :

Press **[Up]** / **[Down]** key to select particular option and then press **[Enter]** key for 1.5 sec to quit programming.

### 1. Programming for Set point 1 :

| Press Key                                                                                                | Lower Display                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Enter]</b> for 1.5 sec to Enter / Exit online programming for Set1.<br>(Auto program out after 2min) | Applicable when Set1 in On delay / Interval mode.<br>Set point 1<br>SEt1<br>1234                                                                                                                        |
|                                                                                                          | Applicable when Set1 in On delay / Interval mode + Auto reset mode.<br>Set point 1 Auto reset time<br>SEt1 AR<br>1234 1234<br>* * Exit Set point1 programming<br>Autoreset time range : 0 to 999.9 sec. |
|                                                                                                          | Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.<br>Set point 1 Time pulse repeat<br>SEt1 TPR<br>1234 1234<br>* * Exit Set point1 programming<br>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.

| Press Key                                                                                                | Lower Display                                                                    |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>[Enter]</b> for 1.5 sec to Enter / Exit online programming for Set2.<br>(Auto program out after 2min) | Applicable when Set2 in On delay / Interval mode.<br>Set point 2<br>SEt2<br>1234 |
|                                                                                                          | Applicable when Set2 in Batch mode.<br>Set point 2<br>SEt2<br>1234               |

**NOTE :** \* sign indicates that the display blinks.

### 3. Programming for Lower display options.

| Press Key                                                                                          | Lower Display                                                                                        |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>[Enter]</b> for 1.5sec to Enter programming for lower display.<br>(Auto program out after 2min) | Batch<br>SEt1<br>1234<br>* * Exit programming<br>Set point 1<br>SEt1<br>1234<br>* * Exit programming |

### 4. Programming for Reset.

| Press Key                                                              | Lower Display                       |
|------------------------------------------------------------------------|-------------------------------------|
| <b>[Enter]</b> for 1.5sec to Enter / Exit online programming for reset | Reset<br>PSE<br>Batch Reset<br>BPSE |

### Read Function

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

### 1. Reading of set1 parameters

| Press Key                                                        | Lower Display                                                                                                                   |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>[Enter]</b> momentarily each time to read Set1 value.         | Applicable when Set1 in On delay / Interval mode.<br>Set point 1<br>SEt1<br>1234                                                |
| Auto exit from Read function if key is not pressed within 3 sec. | Applicable when Set1 in On delay / Interval mode + Autoreset mode.<br>Set point 1 Autoreset time<br>SEt1 AR<br>1234 1234        |
|                                                                  | Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.<br>Set point 1 Time pulse repeat<br>SEt1 TPR<br>1234 1234 |

### 2. Reading of set2 parameters

| Press Key                                                                                                                     | Lower Display                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>[Enter]</b> momentarily each time to read Set 2 value.<br>Auto exit from Read function if key is not pressed within 3 sec. | Applicable when Set2 in On delay / Interval mode.<br>Set point 2<br>SEt2<br>1234 |

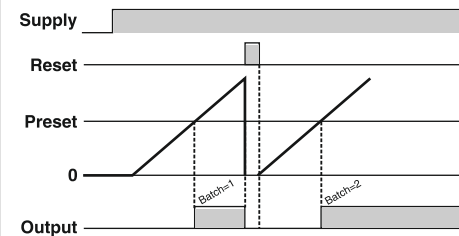
### 3. Reading Batch

| Press Key                                                                                                                  | Lower Display                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Enter]</b> momentarily each time read Set 2 value.<br>Auto exit from Read function if key is not pressed within 3 sec. | 4 digit Batch<br>1234<br>6 digit Batch<br>12 3456<br>Upper Display<br>Lower Display<br>6 digit batch can be read with 2MSDs on the upper display. |

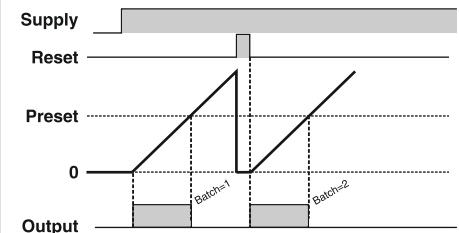
**NOTE :** When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec.  
If lower display is selected as batch, and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.

### COUNTER MODE

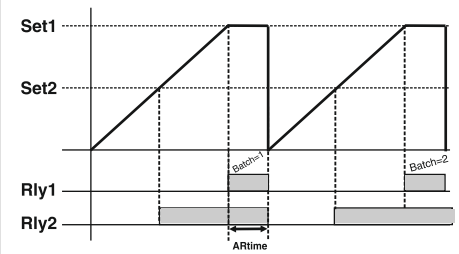
#### 1. ON Delay ( Overrun mode )



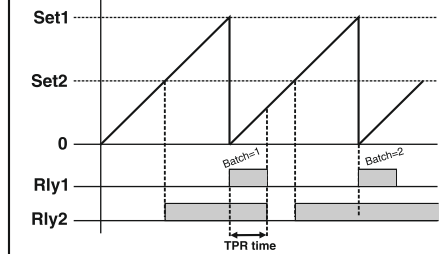
#### 2. Interval ( Overrun mode )



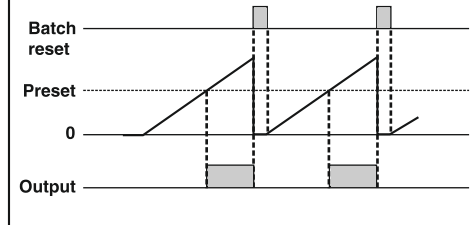
#### 3. Auto Reset ( Non Overrun mode )



### 4. Time Pulse Reset ( Non Overrun mode )



### 5. Batch mode



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

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