

) HDWXUHV

&RPSDFW 3/& ZLWK %XLOW LQ +0,
&RQILJXUDEOH /(' 'LVSOD\
:LQGRZV %DVHG 8VHU)ULHQGO\ 6RIWZDUH
+0, &RQILJXUDWLRQ
56 %DVHG &RPPXQLFDWLRQ ZLWK 02'%8

[PP

'LVSOD\ 6SHFLILFDWLRQ

'LVSOD\ 6HJPHQW /('
'LJLWV 5(' *5((1 'LJLWV
/(' %DQN 5(' /(' V *5((1 /(' V
1R RI .H\V .H\V 8VHU &RQILJXUDEOH

&RPPXQLFDWLRQ

&RPPXQLFDWLRQ 55RUW 6ODYH@
&RPPXQLFDWLRQ 02UR 0R6 RO
&RQQHFRU 5- 3LQ -DFN
7UDQVPLVVLRQ P6DI 'XSOH[
7UDQVPLVVLRQV VSHHG ESV
'DWD ELWV RU
3DULW\ 1RQH 2GG (YHQ 6SDFH 0DU
6WRS ELWV RU

, QSXW 6SHFLILFDWLRQV

'LJLWDO , QSXW
1R RI 'LJLWDO , QSXWV
, QSYMH 313
, QSRWWDJH 5DQJH 9 '&
5HVSRLQVH 7SLFDO P6HF %DVHG RQ /
-6HF IRU IDVW , QSXW
'HERXQFH WR P6HF 'HIDXOW P6
)DVW &RXQWHU , QSXW
, QSYMH 313
1R RI)DVW , QSXW &KDQQHOV
0D[6SHHG N+]
\$QDORJ , QSXW
1R RI &KDQQHOV
6HQXHH 7& 7'5
6HQVRU - 7 5 6 & (% 311// 8 :
P9 WR P9 37
\$FFXUDF\ 'f& 7& f& 75 D'f&
&RQYHUVLRQ WLPHPVHF
5HVROXWLRQ %LWV

)XQFWLRQDO 6SHFLILFDWLRQV

3URJUDPPLQJ PHWLQRGRZV EDVHG 6RIWZDUH IR
3URJUDPPLQJ DQG +0, &RQILJ
0HPRU\ 'DWD 0HPRU\ N%
&RGH 0HPRU\
((3520 0HPRU\ N%
0D[QR RI REMHFRV \$V SHU PHPRU\
0LQLXP VFDQ WLP-6HF
7SLFDO VFDQ WLPHP6HF %DVHG RQ ODGGHU VF

(QYLURQPHQWDO 6SHFLILFDWLRQV

2SHUDWLQJ WHPSHUDWXUH
6WRUDJH WHPSHUDWLRU
+XPLGLW\ QRQ FRVSHQVLRQJ

0HFKDQLFDO 6SHFLILFDWLRQV

0RXQLQJ 3DQHO
:HLJKW JPV DSSUR[

)XQFWLRQDO)HDWXUHV

7LPHU RSHUDWLRQ 200GFRGH00OVH
6SHFLDO 78BHUPZ00
7LPHU UHVROXWLRQ6HF \$FFXUDWLRQDOEORFN
&RXQWHU 8S FRXQRZUFQXWHU
8S 'RZQFRXQWDO >8S 'RZQ
2WKHU EORFNV \$QDORJ , QSXWDP&RDN7
0HPRU\ UHWHQWLRQHDUV .% PHPRU\
57& 1R

8VDJH /LPLWHG WR QRV

2XWSXW 6SHFLILFDWLRQV

'LJLWDO 2XWSXW 5HOD\
1R RI 2XWSXWV
7SH 5HOD\
5HOSHA 6367
&RQWDFW 5DWLQJ\$# \$& 5HVLVWLYH
\$# 9 '& 5HVLVWLYH
5HVSRLQVH P6HF
0HFKDQLFDO /LIH &\FOHV
, VRODWLRQ 1R

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 set 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)	Applicable when Relay1 in On delay / Interval mode. Set point 1
Default : 10sec.	Applicable when Relay1 in Cyclic mode. Start Time ON Time OFF Time

2. Programming for Set point2 :

for 1.5 sec to Enter Set2 programming. (Auto program out after 2min)	Applicable when Relay2 in On delay / Interval mode. Set point 2
Default : 9sec.	Applicable when Set2 in Cyclic mode. Start Time ON Time OFF Time
	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)	
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4. Programming for Reset :

for 1.5sec. to Enter / Exit programming for reset	
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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

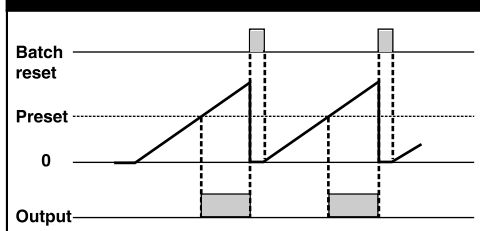
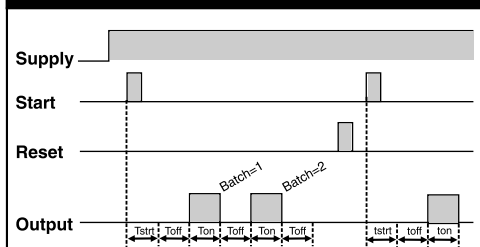
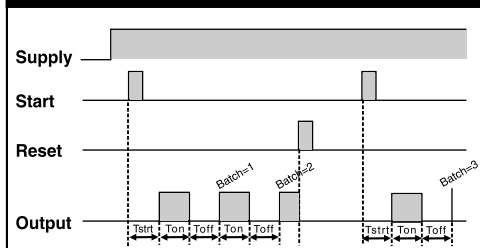
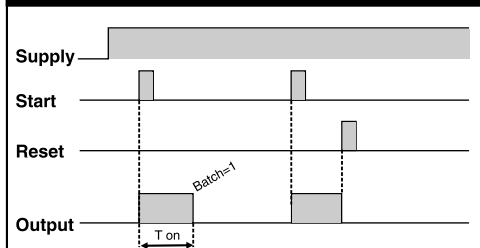
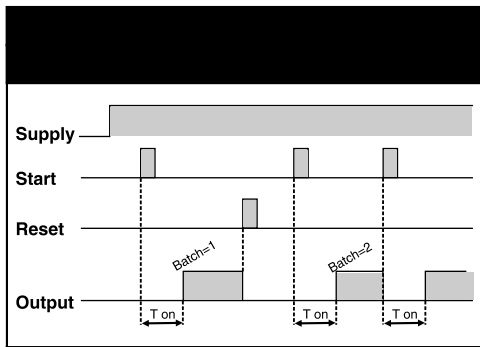
2. Reading of set2 parameters

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

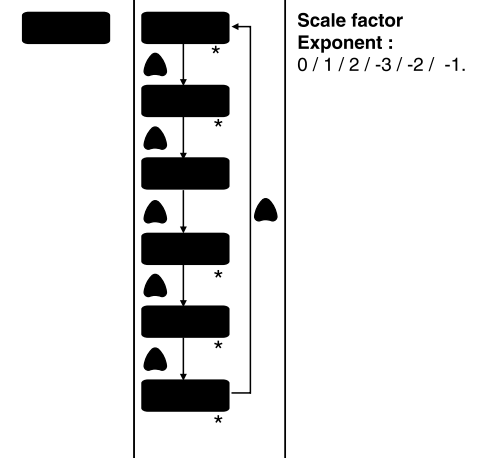
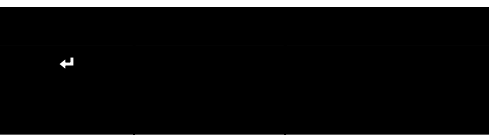
3. Reading Batch

momentarily to read batch value. Auto exit from Read function if key is not pressed within 3 sec.	4 digit Batch 6 digit Batch
	6 digit batch can be read with 2MSDs on the upper display.

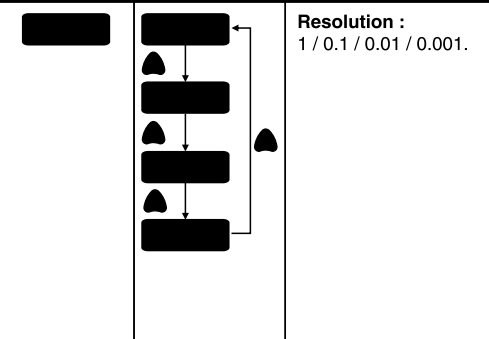
NOTE : When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec. If lower display is selected as batch and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.



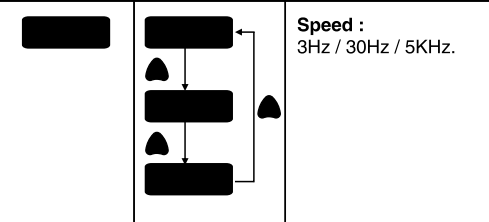
SETTING OF COUNTER FUNCTIONS :



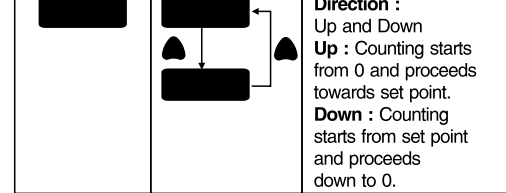
Scale factor
Exponent :
 0 / 1 / 2 / -3 / -2 / -1.



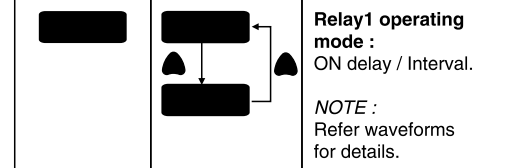
Resolution :
 1 / 0.1 / 0.01 / 0.001.



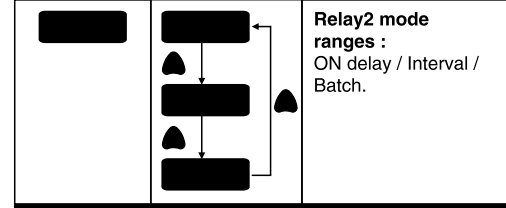
Speed :
 3Hz / 30Hz / 5KHz.



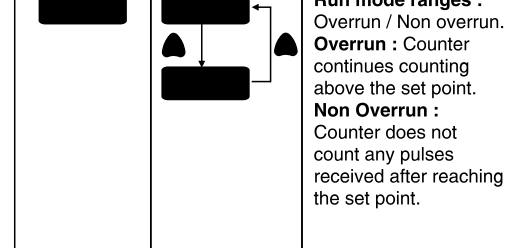
Direction :
 Up and Down
Up : Counting starts from 0 and proceeds towards set point.
Down : Counting starts from set point and proceeds down to 0.



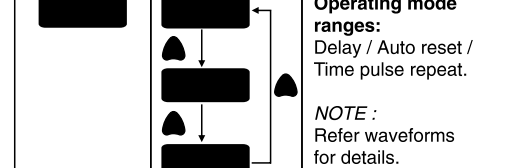
Relay1 operating mode :
 ON delay / Interval.
NOTE :
 Refer waveforms for details.



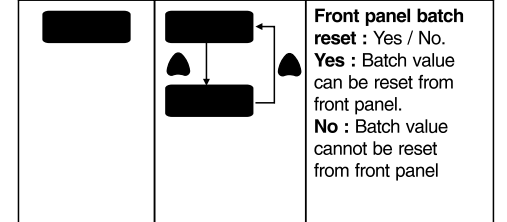
Relay2 mode ranges :
 ON delay / Interval / Batch.



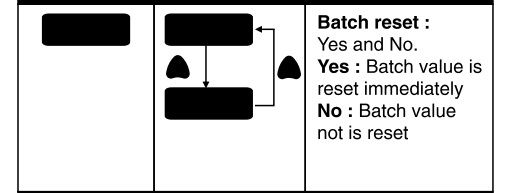
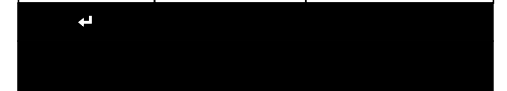
Run mode ranges :
 Overrun / Non overrun.
Overrun : Counter continues counting above the set point.
Non Overrun : Counter does not count any pulses received after reaching the set point.



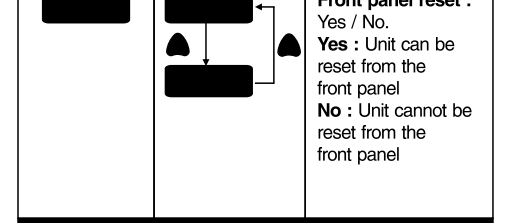
Operating mode ranges:
 Delay / Auto reset / Time pulse repeat.
NOTE :
 Refer waveforms for details.



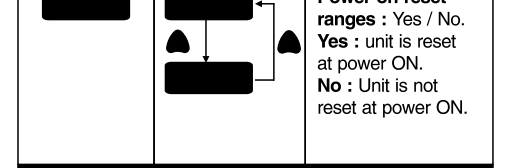
Front panel batch reset : Yes / No.
Yes : Batch value can be reset from front panel.
No : Batch value cannot be reset from front panel



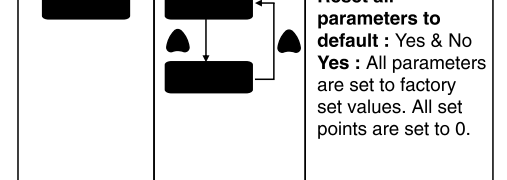
Batch reset : Yes and No.
Yes : Batch value is reset immediately
No : Batch value not is reset



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

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 :

<p>▶ for 1.5 sec to Enter / Exit online programming for Set1. (Auto program out after 2min)</p> <p><i>Default : 100 AR / TPR time = 10sec</i></p>	<p>Applicable when Set1 in On delay / Interval mode.</p> <p>Set point 1</p> <p>*****</p> <p>*</p>
	<p>Applicable when Set1 in On delay / Interval mode + Auto reset mode.</p> <p>Set point 1 Auto reset time</p> <p>***** *****</p> <p>* *</p> <p>Autoreset time range : 0 to 999.9 sec. Exit Set point1 programming</p>
	<p>Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.</p> <p>Set point 1 Time pulse repeat</p> <p>***** *****</p> <p>* *</p> <p>TPR time range : 0 to 999.9 sec. Exit Set point1 programming</p>

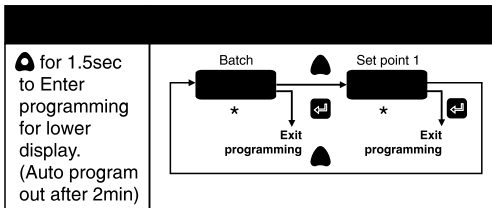
2. Programming for Set point 2 :

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

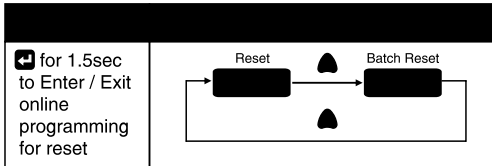
<p>♥ for 1.5 sec to Enter / Exit online programming for Set2. (Auto program out after 2min)</p> <p><i>Default : 90.</i></p>	<p>Applicable when Set2 in On delay / Interval mode.</p> <p>Set point 2</p> <p>*****</p> <p>*</p>
	<p>Applicable when Set2 in Batch mode.</p> <p>Set point 2</p> <p>*****</p> <p>*</p>

NOTE : * sign indicates that the display blinks.

3. Programming for Lower display options.



4. Programming for Reset.



Read Function

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

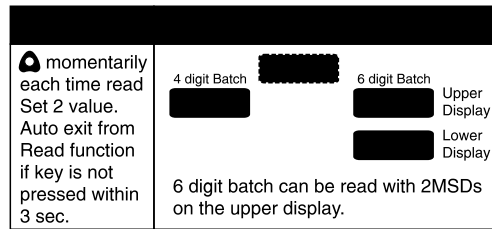
1. Reading of set1 parameters

<p>▶ momentarily each time to read Set1 value.</p> <p>Auto exit from Read function if key is not pressed within 3 sec.</p>	<p>Applicable when Set1 in On delay / Interval mode.</p> <p>Set point 1</p> <p>*****</p> <p>*</p>
	<p>Applicable when Set1 in On delay / Interval mode + Autoreset mode.</p> <p>Set point 1 Autoreset time</p> <p>***** *****</p> <p>* *</p>
	<p>Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.</p> <p>Set point 1 Time pulse repeat</p> <p>***** *****</p> <p>* *</p>

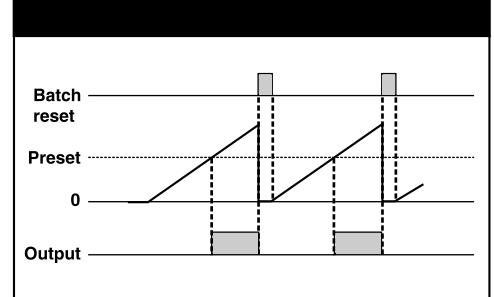
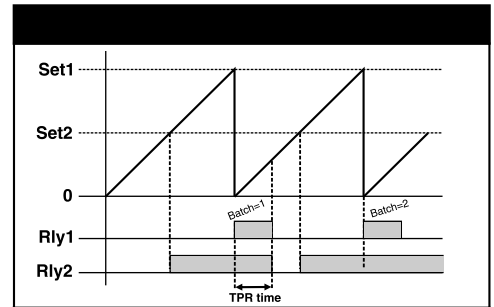
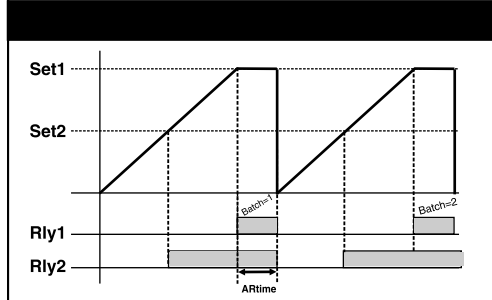
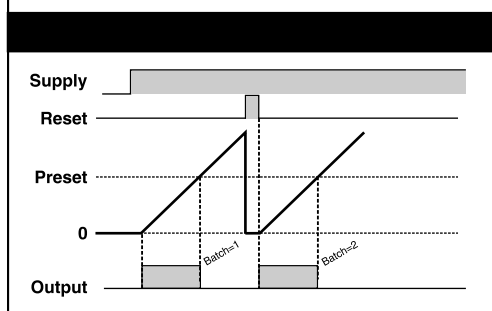
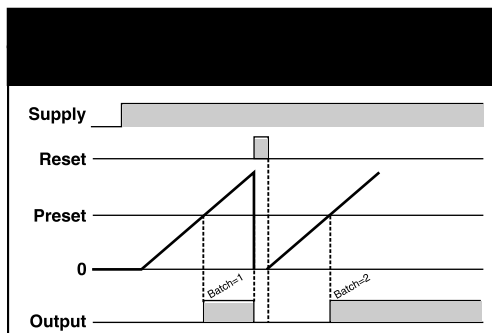
2. Reading of set2 parameters

<p>♥ momentarily each time to read Set 2 value. Auto exit from Read function if key is not pressed within 3 sec.</p>	<p>Applicable when Set2 in On delay / Interval mode.</p> <p>Set point 2</p> <p>*****</p> <p>*</p>
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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.



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

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