

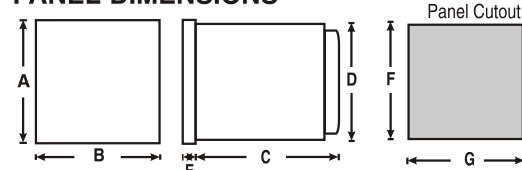
Please maintain these instructions and review them prior to using the unit:

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 275VAC/1A is recommended.

1. This unit is not intended for outdoor use.
2. The power connection cable must have a cross-section of at least 1mm² 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. Clean the equipment with a clean, soft cloth .
Do not use any organic cleaning agent.

1	Supply Voltage (Factory set)	90 to 270VAC/DC, 50/60 Hz. 24V AC/DC
2	Display	Dual 4 digit 7 segment LED. Upper Display (current value): 10mm height, red colour. Lower display (selectable): 7mm height, green colour.

PANEL DIMENSIONS



MODELS \ DIM	A	B	C	D	E	F	G
XT5042	48	48	100	45	7	46	46

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

INPUT SENSOR	JUMPER SELECTION Top view of jumpers with housing removed and display on the right side
PNP	
NPN	

Start Input

11	6	(-) N
12	7	RST
13	8	+12V
14	9	STRT
15	10	GND

Reset Input

11	6	(-) N
12	7	RST
13	8	+12V
14	9	STRT
15	10	GND

Brown / Red --> +12V, Black / Green --> CNT, Blue / Black --> GND.

The diagram shows the XT5042 display module with the following components and labels:

- selec**: Select input label.
- XT5042**: Module identifier.
- Output status indication**: Points to the top-left corner of the display.
- Current value1 display (Red)**: Points to the top row of the 7-segment display.
- Display (Green, selectable as -)**: Points to the bottom row of the 7-segment display.
- 1. Batch.**, **2. Set1**, **3. Set2**, **4. Run2**, **5. Blank**: A list of selectable display values.
- Time range indication LEDs. Indicate whether set1 time range is in sec/min/hr. (LED blinks when timing is in progress)**: Points to the four LEDs on the left side of the module.
- SET1**, **SET2**, **DSP**, **RST**: Four push-buttons at the bottom.
- PROG**: A small square button on the right side.

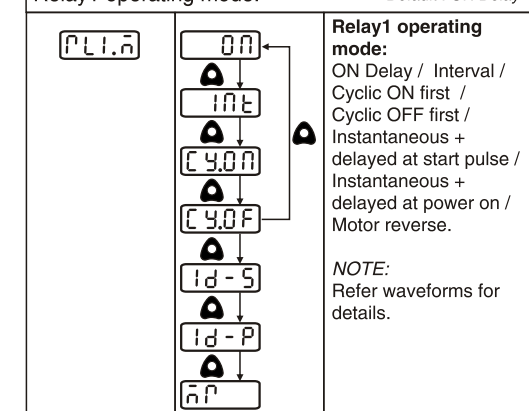
JUMPER SELECTION TO DISABLE LOCK

LOCK

Note: Press after every programming change for EEPROM storage. If no key is pressed for 1min, the unit will auto exit from configuration.

Press	key to enter programming for Relay1 operating mode
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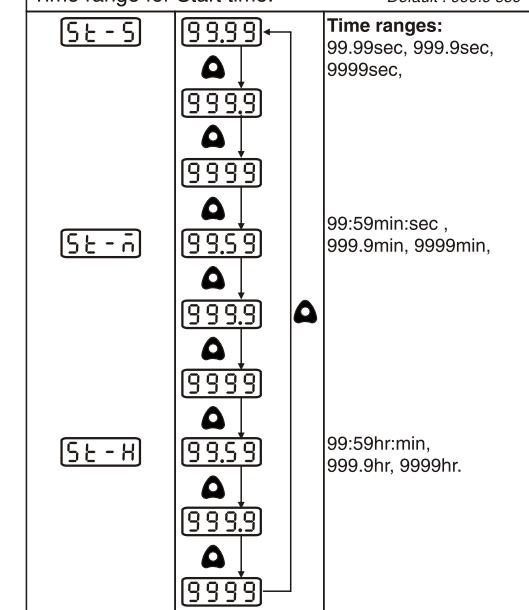
Relay1 operating mode.	Default : ON Delay
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Press	key to enter programming for Start Time range.
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Note: Start time not valid for motor reverse mode.

Time range for Start time.	Default : 999.9 sec
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Upper display	Lower display	Description		
Press key to enter programming for Pause Time range.				
Note: Pause time range valid only for motor reverse mode.				
Time range for Pause time		Default : 999.9 sec		
PS-S PS- PS-H	9999 9999 9999 9959 9999 9999 9959 9999 9999	Time ranges: 99.99sec, 999.9sec, 9999sec, 99:59min:sec , 999.9min, 9999min, 99:59hr:min, 999.9hr, 9999hr.		
	Press key to enter programming for ON Time range.			
	Time range for ON time			
	Default : 999.9 sec			
	ON-S ON- ON-H		9999 9999 9999 9959 9999 9999 9959 9999 9999	Time ranges: 99.99sec, 999.9sec, 9999sec, 99:59min:sec , 999.9min, 9999min, 99:59hr:min, 999.9hr, 9999hr.

Upper display	Lower display	Description	
Press key to enter programming for OFF Time range.			
Note: Off time range valid only for Cyclic modes.			
Time range for OFF time		Default : 999.9 sec	
OF-S OF-n OF-H	9999 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.	
	Press key to enter programming for No. of cycles.		
	Note: Valid only for Cyclic modes.		
	No. of cycles		Default : 0000.
	CYCL	0000 *	No. of cycles: 0000 to 9999. Set the no. of On - Off operations in cyclic mode Press to select the digit and to change value of the selected digit
	Press key to enter programming for Relay 2 function.		
	Note: Not valid for Instantaneous + delayed & motor reverse modes		
	Relay 2 function		Default : Timer 2.
	RLY2	TMR2 NC BTCH	Relay 2 function: Relay 2 will function as: Timer / NC contact for relay1 / Batch. Note: When using relay2 as NC short COM1 and COM2.
	Press key to enter programming for Relay 2 mode		
	Note: Valid only if relay 2 is functioning as Timer.		
	Relay 2 mode		Default : On delay.
RLY2.n	ON INT CYON CYOF	Relay2 operating mode: On delay / Interval / Cyclic On first / Cyclic Off first.	

Upper display	Lower display	Description	
Press key to enter programming for Start Time range.			
Time range for Start time. Default : 999.9 sec			
St - S St - n St - H	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.	
	Press key to enter programming for ON Time range.		
	Time range for ON time Default : 999.9 sec		
	On - S On - n On - H	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.

Upper display	Lower display	Description
Press key to enter programming for OFF Time range.		
Note: Valid only for Cyclic modes.		
Time range for OFF time		Default : 999.9 sec
OF - S	99.99	Time ranges: 99.99sec, 999.9sec, 9999sec, 99:59min:sec , 999.9min, 9999min, 99:59hr:min, 999.9hr, 9999hr.
	999.9	
	9999	
OF - n	99.59	
	999.9	
	9999	
OF - H	99.59	
	999.9	
	9999	
	9999	
	9999	
	9999	
	9999	
Press key to enter programming for No. of cycles.		
No. of cycles		Default : 0000.
Note: Valid only for Cyclic modes.		
CYCL	0000	No. of cycles: 0000 to 9999. To set the no. of On - Off operations in cyclic mode. Press to select the digit and to change value of the selected digit
	*	
Press key to enter programming for Direction		
Counting Direction		Default : Down
DIRN	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.
	UP	
Press key to enter programming for Start.		
Start		Default : Pulse
SETE	PULSE	Start: Pulse / Gate. Pulse: Timing starts on momentary closure of switch connected between terminals 8 & 9. Gate: Timing starts at power on. When the switch between terminals 8 & 9 is closed, the timing freezes and resumes only after the switch is released.
	GATE	

Upper display	Lower display	Description
Press key to enter programming for Front panel batch reset		
Front panel batch reset. <i>Default : Yes</i>		
		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 <i>Default : No</i> NOTE: Prompted only if Front panel batch reset is No.		
		Batch reset : Yes / 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. <i>Default : Yes</i>		
		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. <i>Default : No</i>		
		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 Lock		
Lock <i>Default : No</i>		
		Configuration lock: Yes / No. Yes: Configuration lock is enabled. No: Configuration lock is disabled.
Press key to enter programming for Lock ID		
Note: Valid only if Lock = Yes.		
Lock ID <i>Default : 0000.</i>		
		Lock ID: 0000 to 9999. Press to select the digit and / to change value of the selected digit

Upper display	Lower display	Description
Press key to enter programming for Reset all.		
Reset all parameters to default <i>Default : No</i>		
		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
	Applicable when Relay1 is in On delay / Interval / I + D modes.
	Applicable when Relay1 is in Cyclic mode.
for 1.5 sec to Enter Set1 programming. (Auto program out after 1min)	
	Applicable when Relay1 in Motor reverse mode.

Note: * sign indicates that the digit blinks.

2. Programming for Set point2:

Note: Not valid when relay 2 is functioning as NC.

Press Key	Lower Display
	Applicable when Relay2 is working as Timer2 in On delay / Interval mode.
for 1.5 sec to Enter Set2 programming. (Auto program out after 1min)	
	Applicable when Relay2 is in Batch mode.

Note: * sign indicates that the digit blinks.

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 1min).	

Note 1: * sign indicates that the display blinks.

Note 2: Set 1 and Run 2 not displayed when relay 1 is in Instantaneous + Delayed / Motor reverse mode or when relay2 is in Batch / NC mode.

4. Programming for Reset.

Press Key	Lower Display
for 1.5 sec to Enter / Exit programming for reset.	

Note: * sign indicates that the display blinks.

Read Function

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

1. Reading of Set 1 parameters:

Press Key	Lower Display
	Applicable when Relay1 is in On delay / Interval / I + D modes.
	Applicable when Relay1 is in Cyclic mode.
for 1.5 sec to Enter Set1 programming. (Auto program out after 1min)	
	Applicable when Relay1 in Motor reverse mode.

2. Reading of Set 2 parameters:

Press Key	Lower Display
	Applicable when Relay2 is working as Timer2 in On delay / Interval mode.
for 1.5 sec to Enter Set2 programming. (Auto program out after 1min)	
	Applicable when Relay2 is in Batch mode.

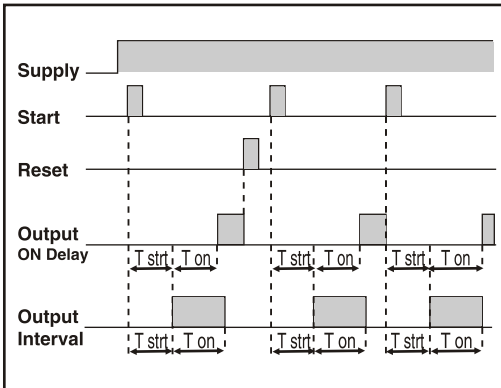
3. Reading Batch.

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 6 digit Batch 12 3456 Upper Display 12 Lower Display 3456
	6 digit batch can be read with 2MSDs on the upper display.

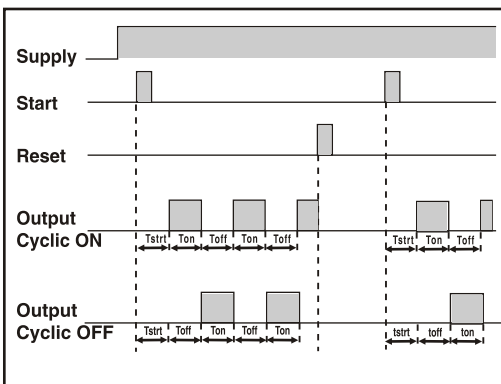
Note: When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec. If lower display is selected as batch, and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.

MODE OF OPERATION

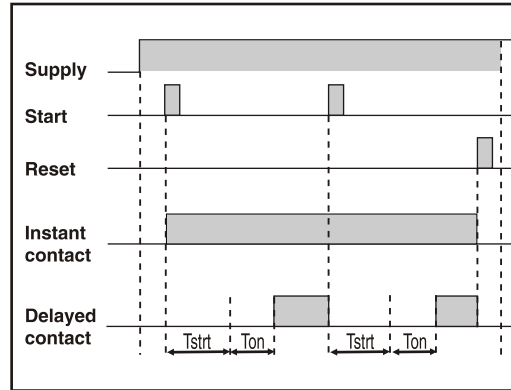
1. On delay, Interval modes:



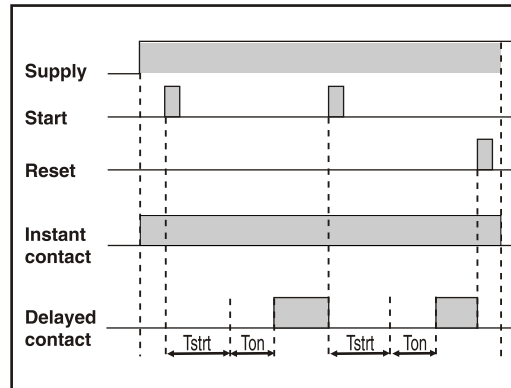
2. Cyclic ON first, Cyclic OFF first modes:



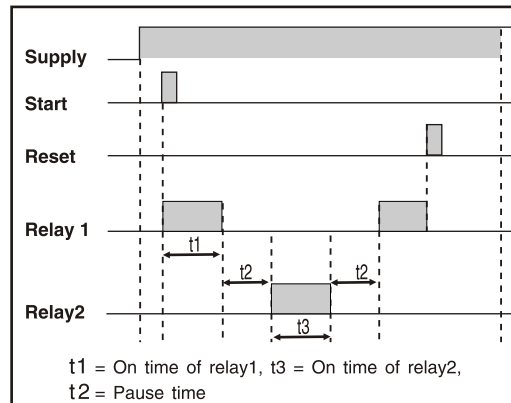
3. Instantaneous + Delayed at start pulse:



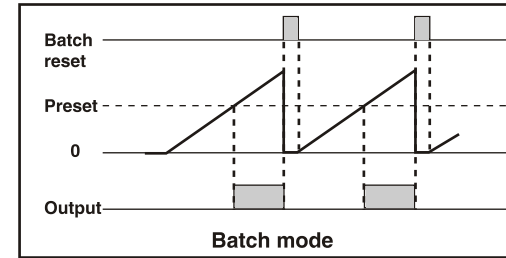
4. Instantaneous + Delayed at power on:



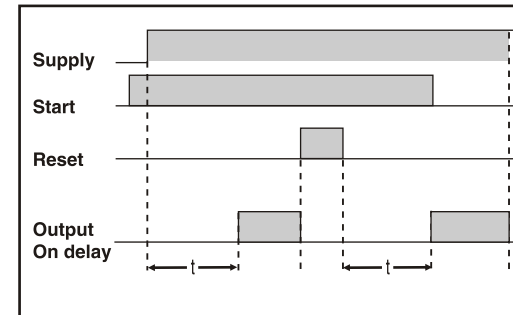
5. Motor reverse mode:



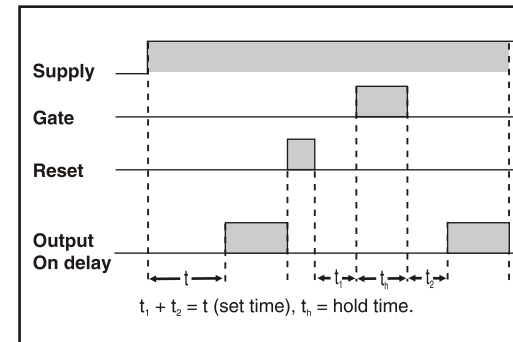
6. Batch mode



Typical application of Continuous start and reset in On delay mode:



Typical application of Gate start in On delay mode:



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

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