OPERATING INSTRUCTIONS XT5042



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 275VAC/1A is recommended.

∆Caution:

- 1. This unit is not intended for outdoor use.
- 2. The power connection cable must have a crosssection 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, vibaration or impact etc.
- 6. Clean the equipment with a clean, soft cloth . Do not use any organic cleaning agent.

SPECIFICATIONS

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.

3	Operating modes	Timer: Relay1: On delay, Interval, Cyclic On first, Cyclic Off first, Instantaneous + Delayed at start pulse, Instantaneous + Delayed at power on, Motor reverse. Relay 2: On delay, Interval,				
		Cyclic On first, Cyclic Off first, Batch, NC.				
4	Time ranges	Timer: 99.99 / 999.9 / 9999 sec, 99:59 min:sec, 999.9 / 9999 min, 99:59 hr:min 999.9 / 9999 hr.				
5	Direction	Up / Down.				
6	Led indications	Relay 1 status, Relay 2 status, sec, min, hr.				
7	Set points	Dual.				
8	Start input	Pulse start, Gate start.				
9	Sensor supply	12VDC, 30mA (Short circuit protected).				
10	Reset	On power interruption, Front panel reset, Terminal reset.				
11	Output	2 NO				
12	Relay rating	5A @ 230VAC.				
13	Memory retention	10 years.				
14	Accuracy	Timer: \pm 0.05% of setting or 50msec whichever is greater.				
15	Mounting	Panel mounting.				
16	Temperature	Operating: 0 - 50 ° C. Storage: -20 - 75 ° C.				
17	Humidity	95% RH.				
18	Housing	Flame retardant engineering plastic.				
19	Weight	175 grams (approx).				
PANEL DIMENSIONS						





TERMINAL CONNECTIONS

L (+)

NO1

6+

COM1

NO2

COM

_		DESCRIPTION	TERMINAL
1)	(11) (6) (-) N		TERIVIINAL
9	(1)(6) (-) N	L (Live)	1
コ		NO 1	2
2)		COM 1	3
_		NO 2	4
3)	(13) (8) +12V	COM 2	5
4		N (Neutral)	6
4)		RESET input	7
2	STRT	+12V	8
5)	(15)(10) GND	START input	9
9		COM (Gnd)	10

JUMPER SELECTION FOR START INPUT **THROUGH PROXIMITY SWITCH:-**



INPUT CONNECTIONS

LEDs. Indicate whethe

c/min/hr.(LED blinks

when timina is in progres

set1 time range is in

KEYS

V + **D**

D

0

۵

E



D D

Enter / Exit configuration mode

towards the right starts blinking.

Decrements value of blinking digit.

Scrolls down to previous option for

Increments value of blinking digit.

for previous parameter setting.

00

LOCK

Ο

Ο

Programming lower display options

Programming for Set1.

configuration parameter.

. Programming for Set 2.

Display Batch value.

2. Front panel RST.

000

000

4

FUNCTIONS

CONFIGURATION SCHEME:

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







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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 D to select the digit. The selected digit blinks. Press A / V 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 guit

To select lower display options: Press A / V key to select particular option and then press 🗳 key to quit programming. To select reset option: Press A / V key to select particular option and then press 🖬 key for 1.5 sec to quit programming.

1. Programming for Set point1:



Note: * sign indicates that the digit blinks.

2. Programming for Set point2:

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



Note: * sign indicates that the digit blinks.

3. Programming for Lower display options:



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.



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:



2. Reading of Set 2 parameters:



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.

MODE OF OPERATION





2. Cyclic ON first, Cyclic OFF first modes:



3. Instantaneous + Delayed at start pulse:

4. Instantaneous + Delayed at power on:



5. Motor reverse mode:



Supply Start Reset Relay 1 t1 t2 t3 t3t3





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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