48 x 96

SPECIFICATIONS

DISPLAY

(E 71)

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, Cyclic On first,

Interval, Cyclic Off first.

Relay 2: On delay, Cyclic On first,

Interval, Cyclic Off first, Batch.

Counter: Relay 1: On delay, Interval, Auto reset,

Time pulse repeat.

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

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 12V 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 10ⁿ

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

TEMERATURE

Operating: 0°C to 50°C Storage : -20°C to 75°C Humidity: 95% max.

HOUSING

Flame retardant plastic.

WEIGHT

175 grams (approx).

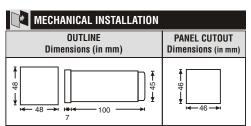
Please maintain these instructions and review them prior to using the unit:

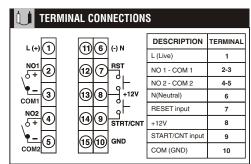
⚠ Warning

- 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 atleast 1mm² and insulation capacity of atleast 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.





FRONT PANEL DESCRIPTION selec XTC5400A Current Output status value1 Display (Red) indication Display →10S0-(Green) Time range indication selectable I FDs Indicate as - 1 Batch

SET2

D O

whether set1 time

(I FD blinks when

range is in sec/min/h.

unning is in progress)	
KEYS	FUNCTIONS
+ -	Enter / Exit configuration mode
D	Selects the digit to be altered. Selected digit blinks. With every press of ▶ key, next digit towards the right starts blinking. Programming for Set1.
٥	Decrements value of blinking digit. Scrolls down to previous option for configuration parameter. Programming for set 2.
۵	I. Increments value of blinking digit. Scrolls up to next option for configuration parameter. Programming lower display options Display Batch value.
	Scrolls to next config. parameter and stores for previous parameter setting. Front panel RST.

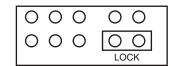
JUMPER SELECTION FOR INPUT SENSOR:

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	<u> </u>

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:

Potential free Proximity switch Reset contact (11)(6) (-) N (11)(6)(-) N 12 7 RST 13 8 +12V STRT/ 14 9 CNT ۱۹ 14) 9 SIR GND (15)(10)

NOTE: Color codes for proximity sensors Brown / Red --> +12V,

Black / Green --> CNT, Blue / Black --> GND

SCALE FACTOR

2. Set1

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

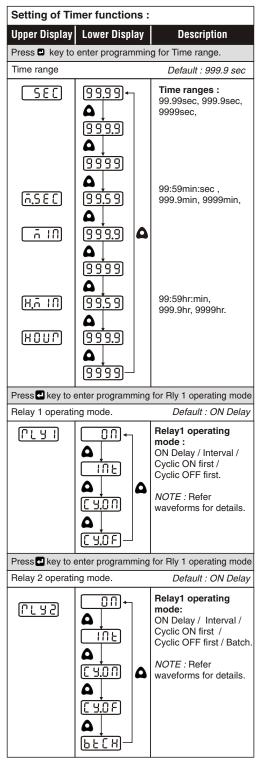
Display = Number of pulses received x scale factor Scale factor consists of two parts - mantissa & exponent. Mantissa can be set from 0.001 to 9.999 and exponent from -3 to +2. The scale factor value is arrived at as:

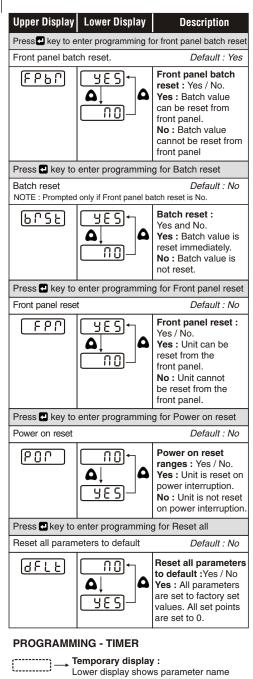
Scale factor = Mantissa x 10^{Expo}

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

HOIH CC	miguration.	
Upper Display	Lower Display	Description
Press 🛕 + 🗖 ke	ys to enter configu	ration
Configuration L	ock	Default : 0000.
COCA	** NOTE: The selected digit blinks. LOCK ID - 2727.	The configuration cannot be changed unless a valid lock ID is entered. Press D to select the digit and Δ/∇ to change value of the selected digit
Press 🛕 + 🖸 ke	ys to enter configu	ration
Function		
FUNC	€ UF U	Function - Timer / Counter Timer : Unit functions as a timer Counter : Unit functions as a counter





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 7 / A key to select particular option and then press kev 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:

1. I rogitalilling for oct politer .	
Press Key	Lower Display
▶ for 1.5 sec	Applicable when Relay1 in On delay / Interval mode.
to Enter Set1 programming. (Auto program out after 2min)	Set point 1 <u>5 E L </u> <u> 1 3 Y</u> *
	Applicable when Relay1 in Cyclic mode.
Default : 10sec.	Start Time

2 Drogramming for Cat paint?

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

3. Programming for Lower display options:

o	or regramming for zerror unopial, options i	
Press Key	Lower Display	
for 1.5 sec to Enter programming for Lower display options (Auto program out after 2min)	Batch Set point 1 * * * * * * * * * * * * * * * * * *	

4. Programming for Reset :

Press Key	Lower Display
for 1.5sec. to Enter 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 Set1 value. Auto exit from Read function if key is not	Applicable when Set1 in On delay / Interval mode.
	Set point 1 [568 1] [1234]
	Applicable when Set1 in Cyclic mode.
pressed within 3 sec.	Start time ON time OFF time 1-5E

2. Reading of set2 parameters

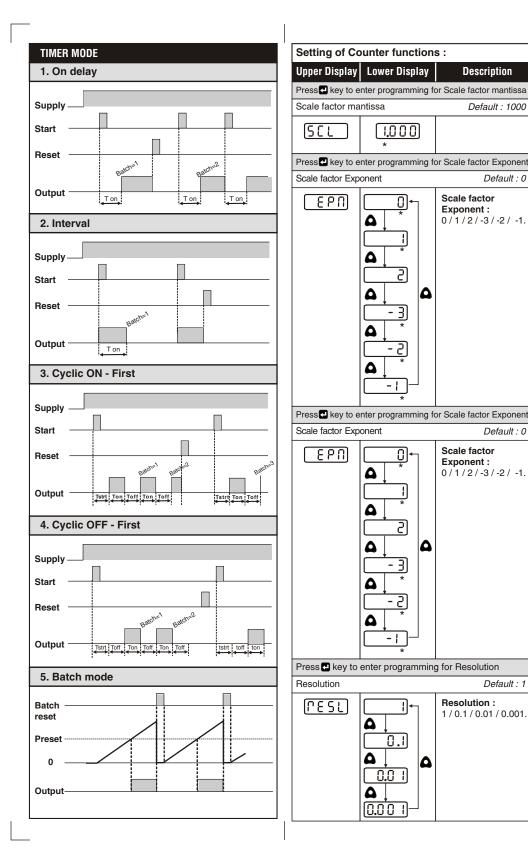
Press Key	Lower Display
	Applicable when Set2 in On delay / Interval mode.
momentarily each time to read Set2 value. Auto exit from Read function	Set point 2 <u> S.E.E.Z. </u> <u> I.Z.3.4</u>
if key is not	Applicable when Set2 in Cyclic mode.
pressed within 3 sec.	Start time ON time OFF time 2 - 5
	Applicable when Set2 in Batch mode.
	Set point 2 (5 E E 2) (1 2 3 Y)

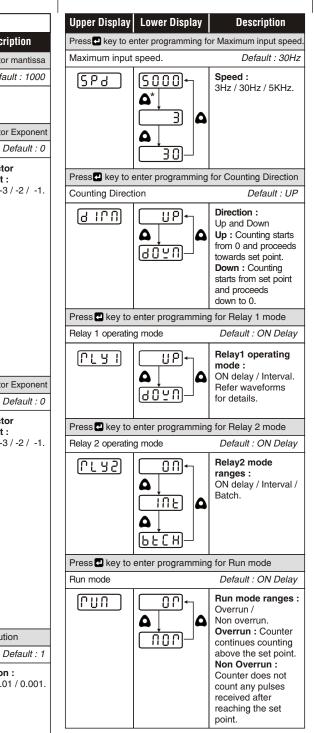
3. Reading Batch

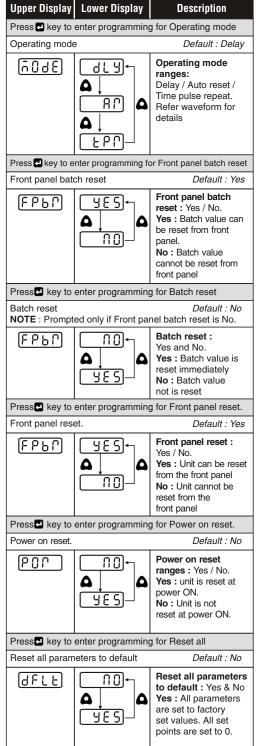
Press Key	Lower Display
momentarily to read batch value. Auto exit from Read function if key is not pressed within 3 sec.	4 digit Batch 1234 6 digit Batch 12 Upper Display 345b Lower Display 6 digit batch can be read with 2MSDs on the upper display.

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.

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NOTE: * sign indicates that the display blinks.

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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 **D** to select the digit. The selected digit blinks. Press **A** / **T** key to change its value. Press **L** 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. Reading of set1 parameters

Press Key	Lower Display
Diant Food	Applicable when Set1 in On delay / Interval mode.
online programming for Set1.	Set point 1 (S.E.E. I) (12.3.4)
(Auto program out after 2min)	Applicable when Set1 in On delay / Interval mode + Autoreset mode.
	Set point 1 Autoreset time SEE 1 AUTORESET TIME Autoreset time Autoreset time Autoreset time Autoreset time Exit Set point1 programming
Default : 100 AR / TPR time = 10sec	Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.
ume = Tosec	Set point 1 Time pulse repeat SEE

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
	Applicable when Set2 in
of for 1.5 sec to Enter / Exit	On delay / Interval mode. Set point 2 (C.C.1
online programming	<u>(5862)</u> (1234)
for Set2. (Auto program	*
out after 2min)	Applicable when Set2 in Batch mode.
Default : 90.	Set point 2 5 E L 2
	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)	

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.	Applicable when Set1 in On delay / Interval mode.
	Set point 1 (<u>5 E E 1)</u> (1 2 3 Y
	Applicable when Set1 in On delay / Interval mode + Autoreset mode.
Auto exit from Read function if key is not pressed within 3 sec.	Set point 1 D Autoreset time SE N N
	Applicable when Set1 in On delay / Interval mode + Time Pulse Repeat.
	Set point 1 D Time pulse repeat SEE 1 E P P

2. Reading of set2 parameters

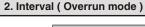
Press Key	Lower Display
momentarily each time to	Applicable when Set2 in On delay / Interval mode.
read Set 2 value. Auto exit from Read function if key is not pressed within 3 sec.	Set point 2 <u>5 E E C</u> 1 <u>2 3 Y</u>

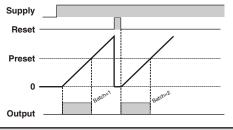
3. Reading Batch

Press Key	Lower Display
Momentarily each time read Set 2 value. Auto exit from Read function if key is not	6 digit Batch 4 digit Batch 12 3 4 13 4 5 b Lower Display
pressed within 3 sec.	6 digit batch can be read with 2MSDs on the upper display.

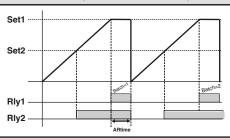
NOTE: When viewing 6 digit batch value, lower display LSD dp blinks and batch value is displayed for 3 sec. If lower display is selected as batch, and batch value exceeds 4 digits, the lower display LSD dp is on continuously indicating that the batch value has exceeded 4 digits.

TIMER MODE 1. ON Delay (Overrun mode) Supply Reset Preset Output

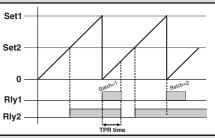




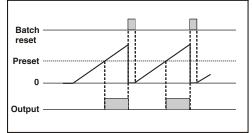
3. Auto Reset (Non Overrun mode)



4. Time Pulse Reset (Non Overrun mode)



5. Batch mode



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

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