

OPERATING INSTRUCTIONS

XT543-N / 243 / 343



SPECIFICATIONS

DISPLAY

3 digit, height 0.5".

SET POINTS

Single set point.

DELAY MODES

On delay, Interval, Cyclic on first & Cyclic off first (Configurable by keys).

SUPPLY VOLTAGE

90 to 270 VAC/DC @ 50 or 60Hz.

TIME RANGES

9.99, 99.9, 999 sec, 9:59 min:sec,
99.9, 999 min, 9:59 hr:min, 99.9, 999 hr.
(Configurable by keys).

TIME SETTING

By key pad.

ACCURACY

±0.5% or 50msec.whichever is greater.

START INPUT

Gate / Pulse (Programmable)

RESET INPUT

- 1) Front panel reset (for On delay / Interval only).
- 2) Remote reset.
- 3) On power interruption.

RESET TIME

Less than 100 msec.

COUNTING DIRECTION

Down.

LED INDICATION

Relay status.

OUTPUT

2 C/O.

RELAY RATING

5A@230VAC / 24VDC.

MOUNTING

Panel mounting.

CONFIGURATION LOCK

via rear terminals.

HOUSING

ABS.

TEMPERATURE

Operating: 0 to 50°C. Storage: -5 to 55°C

HUMIDITY

95%RH.

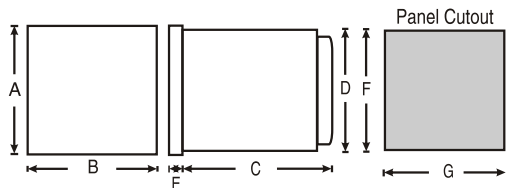
WEIGHT

XT543-N: 160gm, XT243: 285gm, XT343: 300gm

PRODUCT CODE

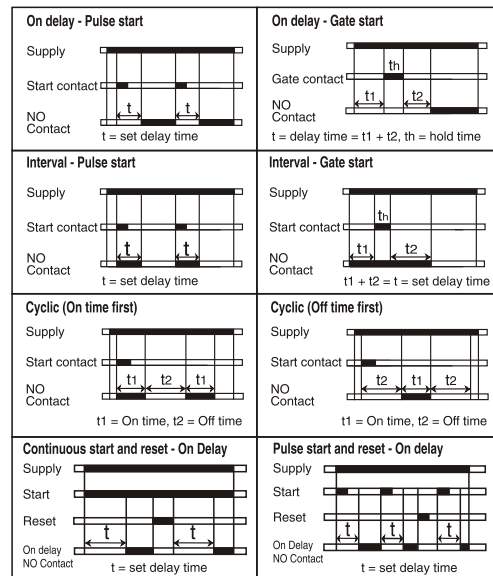
| MODELS | BEZEL SIZE(mm) |
|----------|----------------|
| XT 543-N | 48 x 48 |
| XT 243 | 72 x 72 |
| XT 343 | 96 x 96 |

OVERALL DIMENSIONS (All dimensions in mm)

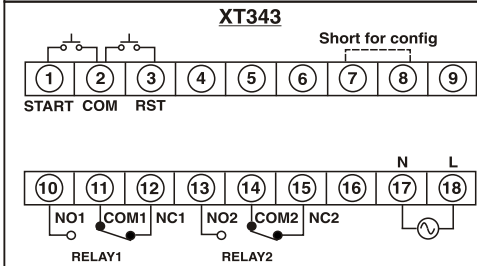
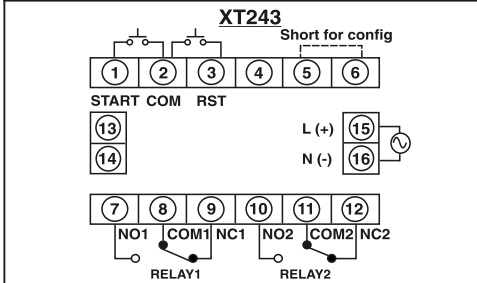
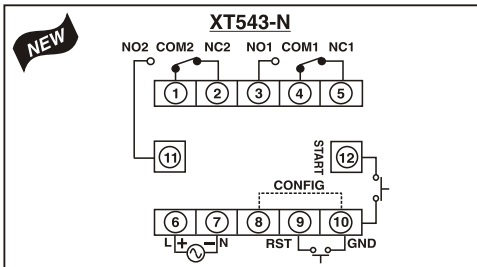


| MODELS | DIM | A | B | C | D | E | F | G |
|---------|-----|----|----|-----|----|----|----|----|
| XT543-N | | 48 | 48 | 100 | 45 | 7 | 46 | 46 |
| XT243 | | 72 | 72 | 115 | 68 | 10 | 69 | 69 |
| XT343 | | 96 | 96 | 70 | 90 | 10 | 92 | 92 |

OPERATING MODES



TERMINAL CONNECTIONS



| TERMINAL DESCRIPTION | TERMINALS FOR | | |
|------------------------------|---------------|-------|-------|
| | XT543-N | XT243 | XT343 |
| L (Live) | 6 | 15 | 18 |
| N (Neutral) | 7 | 16 | 17 |
| Short to enter configuration | 8 - 10 | 5 - 6 | 7 - 8 |
| COM of relay 1 | 4 | 8 | 11 |
| NO of relay 1 | 3 | 7 | 10 |
| NC of relay 1 | 5 | 9 | 12 |
| COM of relay 2 | 1 | 11 | 14 |
| NO of relay 2 | 11 | 10 | 13 |
| NC of relay 2 | 2 | 12 | 15 |
| START input | 12 - 10 | 1 | 1 |
| RESET input | 9 - 10 | 3 | 3 |
| COM (Gnd) | 10 | 2 | 2 |

PROGRAMMING SCHEME

CONFIGURATION SCHEME :

- 1) At power OFF, short terminals for configuration*.
- 2) Turn power ON.
- 3) Program configuration setting as per instructions below.

NOTE : LSD dp blinks during programming.

*For XT543-N short terminals 8 & 10
for XT243 short terminals 5 & 6
for XT343 short terminals 7 & 8
to enter into the configuration mode.

1. TO SELECT RANGE Default Setting : 9.99sec

| KEY PRESS | DISPLAY | DESCRIPTION |
|---------------------------|---------|---|
| RANGE | 1 0 | 9.99sec |
| PRESS Q + A | 1 1 | 99.9sec |
| PRESS Q + A | 1 2 | 999sec |
| PRESS Q + A | 1 3 | 9:59 min:sec (MSD dp blinks when the timing is in progress.) |
| PRESS Q + A | 1 4 | 99.9min |
| PRESS Q + A | 1 5 | 999min |
| PRESS Q + A | 1 6 | 9:59 hr:min (MSD dp blinks when the timing is in progress.) |
| PRESS Q + A | 1 7 | 99.9hr |
| PRESS Q + A | 1 8 | 999hr |

2. PRESS **A** KEY TO SELECT DELAY MODE Default Setting : On Delay

| KEY PRESS | DISPLAY | DESCRIPTION |
|---------------------------|---------|--------------------|
| DELAY MODE | 2 0 | ON DELAY |
| PRESS Q + A | 2 1 | INTERVAL DELAY |
| PRESS Q + A | 2 2 | CYCLIC (ON FIRST) |
| PRESS Q + A | 2 3 | CYCLIC (OFF FIRST) |

3. PRESS **A** KEY TO ENABLE / DISABLE FRONT PANEL RESET OPTION Default Setting : Enabled.

Note: Valid only for On delay / Interval mode.

| KEY PRESS | DISPLAY | DESCRIPTION |
|---------------------------|---------|---------------|
| FRONT PANEL RESET | 3 0 | ENABLED (YES) |
| PRESS Q + A | 3 1 | DISABLED (NO) |

4. PRESS **A** KEY TO SELECT START INPUT
Default Setting : Pulse Start.

| KEY PRESS | DISPLAY | DESCRIPTION |
|---------------------------|---------|-------------|
| START INPUT | 4 0 | GATE START |
| PRESS ■ + A | 4 1 | PULSE START |

Pulse start: In Pulse start mode, the timing starts on momentary closure of the Start switch.
Gate start: In Gate start mode, when the Start switch is closed, the timing stops and proceeds only after the start switch is released.

5. PRESS **A** KEY TO RESET ALL PARAMETERS TO DEFAULT VALUE

Note: Reset all function is used only to set all parameter values back to default.

| KEY PRESS | DISPLAY | DESCRIPTION |
|---------------------------|---------|-------------|
| RESET ALL | 5 0 | NO ACTION |
| PRESS ■ + A | 5 1 | NO ACTION |
| PRESS ■ + A | 5 2 | NO ACTION |
| PRESS ■ + A | 5 3 | NO ACTION |
| PRESS ■ + A | 5 4 | NO ACTION |
| PRESS ■ + A | 5 5 | NO ACTION |
| PRESS A | 1 0 | RESET ALL |

AFTER CONFIGURATION SETTING :
1) Turn power OFF.
2) Remove link between the terminals.
3) Turn power ON.

TO PROGRAM SET TIME :

FOR ON DELAY / INTERVAL MODE :
Press **■** + **A** / **▼** to program set time.

For Cyclic mode :
ON time - Press **■** + **A** / **▼** to program on time

OFF time - To enter programming of off time
press **A** + **▼** for 3sec. When in Off
time programming, the LSD dp blinks
Then press **■** + **A** / **▼** to set off time.

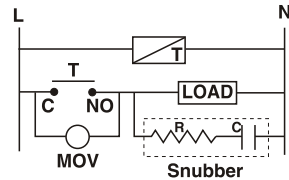
To Exit programming press **A** + **▼** for 3sec or
auto program out after 60sec if no key is pressed.

TO RESET :

For On delay / Interval mode : Press **A** + **▼** for
0.6sec to reset.

For Cyclic mode : Front reset not valid.
Reset only through pulse given
From rear terminals.

LOAD CONNECTIONS



- 1) Snubber Part No.: APRC - 01.
- 2) MOV Part No.: AP-MOV - 03.

Note: For inductive loads, use of snubber and MOV, as shown above, is recommended.

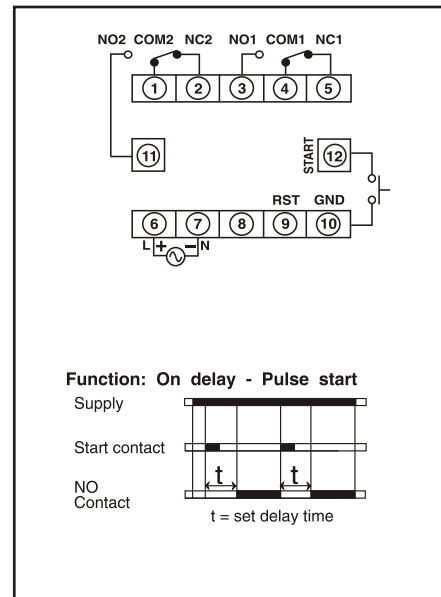
USER GUIDE

Typical applications of Pulse start & Gate start input:

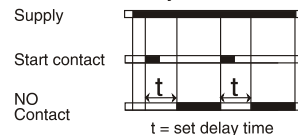
1. ON Delay with Pulse start input:

- i. Terminal connections shall be as per fig. 1
- ii. Timing starts on momentary closure of Start switch.
- iii. If Start switch is kept closed continuously, the timing will start at every power ON or reset.

XT543-N in ON Delay mode and Pulse start input: Fig.1 Terminal Connections



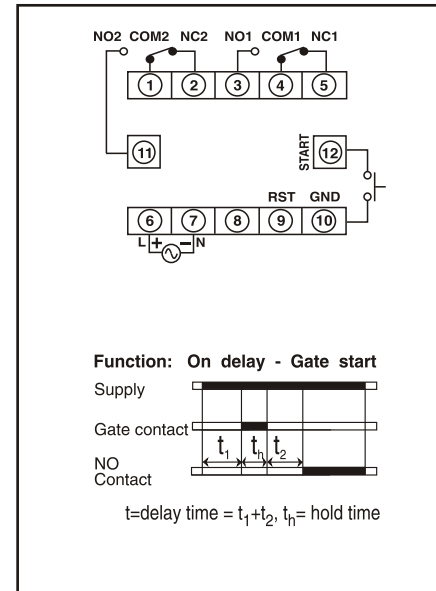
Function: On delay - Pulse start



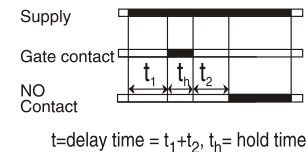
2. ON Delay with Gate start Input:

- i. Terminal connections shall be as per fig. 2.
- ii. Timing starts at power ON.
- iii. When the start switch is closed, the timing is held and it proceeds only after the start switch is released.

XT543-N in ON Delay mode and Gate start input: Fig.2 Terminal Connections



Function: On delay - Gate start



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

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