

PRODUCT SELECTION GUIDE

selec[®]
Creating Best Value



- Meters
- Power Factor Controllers
- CTs
- Protection Relays
- Time Switches
- Timers
- Counters
- Temperature Controllers
- Process Indicators
- PLCs
- HMI
- VFDs
- Aluminium Enclosures

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Daily / Weekly Time Switches

Astronomical Time Switch



TS2M1-1-16A
90(H) x 35(W)mm



TS1W1-1-20A
60(H) x 60(W)mm



ATS2M1-1-16A
90(H) x 35(W)mm

FEATURES

- 1 sec least count
- 50 ON - 50 OFF steps per day
- 1 channel
- Permanent over ride mode
- 10 years power reserve (replaceable battery)

- Latitude / Longitude precise to the minute with time zone
- Automatic calculation of sunrise & sunset times
- DST offset / power saving mode
- 1 channel
- 10 years power reserve (replaceable battery)

DISPLAY

Text LCD (Without backlight)

RTC SHIFT

15 minutes a year @ 25°C

OUTPUT CONTACT

1 C/O SPDT

1 NO & Neutral

1 C/O SPDT

CONTACT RATING

16A @ 250V AC

20A @ 250V AC

16A @ 250V AC

WEEKLY PROGRAM

Total 50 ON steps and 50 OFF steps
2 programs x 25 steps, 3 programs x 16 steps, 4 programs x 12 steps, 5 programs x 10 steps
6 programs x 08 steps, 7 programs x 07 steps, 8 programs x 06 steps

MINIMUM SETTING UNIT

1 second

HOLIDAY SETTINGS

16 dates

CLOCK

12hr (AM / PM) and 24hr selection

RELAY OPERATING MODE

Auto / Permanent override ON / Permanent override OFF

SUPPLY VOLTAGE (AC : 50 / 60 Hz)

230V AC ±10%

Analog Timers



600ST
90(H) x 17.5(W)mm



600XU
90(H) x 17.5(W)mm



600SD
90(H) x 17.5(W)mm



642SQ-A
90(H) x 17.5(W)mm



642XA
90(H) x 17.5(W)mm

FEATURES

- Single function - ON delay
- 10 Time ranges

- Multi function (13 Functions)
- Precise analog time setting
- Universal supply voltage

- Star Delta
- 1 NO for Star & 1 NO for Delta

- 2 Functions
- 8 Time ranges

MODES

ON delay

A, B, C, Ci, D, E, F, H,
I, J, K, Ai, Bi

Star - Delta

ON delay / Interval

TIME RANGES

0.1 - 1sec, 0.3 - 3sec, 1 - 10sec, 3 - 30sec,
0.1 - 1min, 0.3 - 3min, 1 - 10min, 3 - 30min,
0.1 - 1hr, 0.3 - 3hr

Run up time :
3 - 30sec, 6 - 60sec
Change over : 50/100ms

0 - 3sec / min, 0 - 10sec / min,
0 - 30sec / min, 0 - 60sec / min

RESOLUTION

0.1sec

0.1sec

0.3sec

ACCURACY

Setting : ±5% of F.S
Repeat : ±0.5% F.S.
Pause time accuracy : ±5% ±5ms

OUTPUT CONTACT

1 C/O SPDT

1 C/O SPDT

1 C/O Relay each
for Star & Delta

1 C/O SPDT

CONTACT RATING

5A @ 250V AC or 24V DC

SUPPLY VOLTAGE (AC : 50 / 60 Hz)

240V AC

20 to 240V AC, 12 to 240V DC

230V AC

230V AC, 24V AC / DC

20 to 240V AC, 12 to 240V DC

Modes

600XU

A - ON delay, B - Interval, C - Repeat cycle equal OFF first, Ci - Repeat cycle equal ON first, D - Pulse output 500ms fixed, E - Delay on break, F - Delay on make / Delay on break, H - Interval after break, I - Single shot, J - Retriggerable single shot, K - Latching relay, Ai - Delay on break with Totalise, Bi - Interval with Totalise



800XU
75(H) x 22.5(W)mm



800XA
75(H) x 22.5(W)mm



800SQ-A
75(H) x 22.5(W)mm



800S
75(H) x 22.5(W)mm

FEATURES	<ul style="list-style-type: none"> • 2 Functions • 12 Time ranges • Universal supply voltage 	<ul style="list-style-type: none"> • 2 Functions • 8 Time ranges • Universal supply voltage 	<ul style="list-style-type: none"> • 2 Functions • 8 Time ranges 	<ul style="list-style-type: none"> • Single function • Fixed time range (60sec)
MODES	ON delay / Interval			ON delay
TIME RANGES	1 / 3 / 10 / 30sec / min / hr	3 / 10 / 30 / 60sec / min	3 / 10 / 30 / 60sec / min	60sec
RESOLUTION	0.1sec	0.3sec	0.3sec	6sec
ACCURACY	Setting : ±5% of F.S. Repeat : ±0.5% or 50ms (Whichever is greater)			
OUTPUT CONTACT	2 C/O DPDT	2 C/O DPDT	1 C/O SPDT	1 C/O SPDT
CONTACT RATING	5A @ 250V AC or 24V DC			
SUPPLY VOLTAGE (AC : 50 / 60 Hz)	20 to 240V AC, 12 to 240V DC		230V AC & 24V AC / DC	230V AC, 415V AC



800SD-2
75(H) x 22.5(W)



800XC
75(H) x 22.5(W)mm



800XMR
75(H) x 22.5(W)mm



800POD
75(H) x 22.5(W)mm

FEATURES	<ul style="list-style-type: none"> • Star Delta • 1 C/O Relay each for Star & Delta 	<ul style="list-style-type: none"> • Asymmetrical Cyclic • 6 Time ranges 	<ul style="list-style-type: none"> • Forward Pause Reverse • 1 C/O Relay each for Forward & Reverse 	<ul style="list-style-type: none"> • True Power OFF Delay • Fixed time range (180sec)
MODES	Star - Delta	Asymmetrical Cyclic ON first or OFF first	Forward - Pause - Reverse	True Power OFF Delay
TIME RANGES	Run up time : 30 / 60sec Change over : 50 / 100msec	1 / 10sec / min / hr for both ON & OFF time	ON time : 1 / 2 / 4 / 8min Pause time : 10 / 20 / 40 / 80s	180sec
RESOLUTION	---	0.1sec	ON time : 6s Pause time : 0.1s	7.5sec
ACCURACY	Setting : ±0.5% or 50ms, Repeat : ±5% of F.S.			Setting : ±10% of F.S. Repeat : ±2% or 100ms
OUTPUT CONTACT	1 C/O Relay each for Star & Delta	2 C/O DPDT	1 C/O Relay each for Forward & Reverse	2 C/O DPDT
CONTACT RATING	5A @ 250V AC or 24V DC			
SUPPLY VOLTAGE (AC : 50 / 60 Hz)	110V AC, 230V AC 230 to 415V AC	20 to 240V AC, 12 to 240V DC		110 to 240V AC / DC



55XU
48(H) x 48(W)mm



55XC
48(H) x 48(W)mm



55ES
48(H) x 48(W)mm

FEATURES	<ul style="list-style-type: none"> • Plug / Panel mount • ON delay / Interval • 12 Time ranges 	<ul style="list-style-type: none"> • Plug / Panel mount • Asymmetrical Cyclic ON - OFF • 6 Time ranges 	<ul style="list-style-type: none"> • Plug / Panel mount • ON delay / Interval • 8 Time ranges
BASE TYPE	P8 - 8 Pin plug, T8 - Screw terminal		
MODES	ON delay / Interval	Asymmetrical Cyclic ON first or OFF first	ON delay / Interval
TIME RANGE	1 / 3 / 10 / 30sec / min / hr	1 / 10sec / min / hr for both ON & OFF time	3 / 10 / 30 / 60sec / min
RESOLUTION	0.1sec		0.3sec
ACCURACY	Setting : ± 5% of F.S., Repeat : ± 0.5% or 50 ms		
OUTPUT CONTACT	2 C/O DPDT		1 C/O SPDT
CONTACT RATING	5A @ 250V AC or 24V DC		
SUPPLY VOLTAGE (AC : 50 / 60 Hz)	20 to 240V AC, 12 to 240V DC		230V AC, 24V AC / DC



600DT
90(H) x 17.5(W)mm



XT543
48(H) x 48(W)mm



XT56
48(H) x 48(W)mm



XT264
72(H) x 72(W)mm



XT364
96(H) x 96(W)mm

FEATURES	<ul style="list-style-type: none"> Multi function (15 Functions) Wide time range (0.1sec to 999hr) Universal supply voltage 	<ul style="list-style-type: none"> Multi function (4 Functions) 9 Time ranges Single set point 	<ul style="list-style-type: none"> Thumbwheel setting 6 Time ranges Single set point
DISPLAY	3 + 3 digits	3 digits	
SET POINT	Single set point		
MODES	A, B, C, D, E, F, H, J, K, L, P, Q, R, T, U	ON delay / Interval / Cyclic ON first / Cyclic OFF first	ON delay / Interval
TIME RANGES	9.99 / 99.9 / 999sec, 9 : 59min : sec, 99.9 / 999min, 9 : 59hr : min, 99.9 / 999hr	9.99 / 99.9 / 999sec, 99.9 / 999min, 99.9hr	
RESOLUTION	0.01sec		
TIME SETTING	Front keypad		Thumbwheel
RESET / START INPUT	Start : Gate/Pulse start (Depending on modes)	Start : Gate / Pulse start (Programmable)	Start : Pulse start
	Reset : Front panel, On power interruption	Reset : Front panel, Remote reset, On power interruption	
ACCURACY	Setting : ± 0.1% of F.S. or ±50ms For Y contact operation : +100ms, Repeat : ± 0.1%	±0.5% of F.S. or 50ms	
OUTPUT CONTACT	1 C/O SPDT	2 C/O DPDT	
CONTACT RATING	8A @ 250V AC	5A @ 250V AC or 24V AC / DC	
SUPPLY VOLTAGE (AC : 50 / 60 Hz)	20 to 240V AC / DC	90 to 270V AC / DC	

Modes	<p>600DT</p> <p>A - ON delay, B - Interval, C - Asymmetrical cyclic OFF first, D - Asymmetrical cyclic ON first, E - Repeat cycle equal OFF first, F - Repeat cycle equal ON first, H - Pulse output, J - Delay on break, K - Delay on make/Delay on break, L - Interval after break, P - single shot, Q - Retriggerable single shot, R - Latching relay, T - Delay on break with Totalise, U - Interval with Totalise</p>
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XT546BX
48(H) x 48(W)mm



XT546
48(H) x 48(W)mm



XT246
72(H) x 72(W)mm



XT346
96(H) x 96(W)mm



XT5042
48(H) x 48(W)mm



PT380
96(H) x 96(W)mm

FEATURES	<ul style="list-style-type: none"> Short depth Multi function (4 Functions) 9 Time ranges Single set point 	<ul style="list-style-type: none"> Multi function (4 Functions) 9 Time ranges Single set point 	<ul style="list-style-type: none"> Multi function (7 Functions) Pulse start (Input through PNP / NPN sensor) Dual set point Individual time setting for relays 	<ul style="list-style-type: none"> 8 Channels 4 Functions Parallel / Sequential operation Cascade output for channel expansion
DISPLAY	3 + 3 digits	4 + 4 digits		2 + 4 digits
SET POINT	Single set point		Dual set point	Single set point
MODES	ON delay / Interval / Cyclic ON first / Cyclic OFF first		ON delay / Interval / Cyclic ON first / Cyclic OFF first / Forward-Pause-Reverse / Instantaneous + Delayed / Timer / Batch	ON delay / Interval / Cyclic ON first / Cyclic OFF first (Start up delay & no. of cycles programmable for cyclic mode)
TIME RANGES	9.99 / 99.9 / 999sec, 9.59min : sec, 99.9 / 999min, 9.59hr : min, 99.9 / 999hr		99.99 / 999.9 / 9999sec, 99.59min : sec, 999.9 / 9999min, 99.59hr : min, 999.9 / 9999hr	99.99sec, 999.9sec, 99.59min : sec, 99.59hr : min, 999.9hr
RESOLUTION	0.01sec			
DIRECTION	Up / Down	Down	Up / Down	Up
TIME SETTING	Front keypad			
NO. OF CHANNELS	—			8 Channels
RESET/START INPUT	Start : Gate / Pulse start (Programmable) Reset : Front panel, Remote reset, On power interruption			
ACCURACY	±0.05% of F.S. or 50ms			±0.5% of F.S. or 50ms
OUTPUT CONTACT	2 C/O DPDT		2 C/O SPST	8 NOs with 1 Com
CONTACT RATING	5A @ 250V AC or 24V DC			
MEMORY RETENTION	10 years (User selectable)			
SUPPLY VOLTAGE (AC : 50 / 60 Hz)	85 to 270V AC		90 to 270V AC / DC	85 to 270V AC / DC