☐ Description

ESRD-TPA2astronomical time switch is for realization of time functions in the systems of automatics and steering.It will calculate the sunrise and sunset according to the geographic position and time zone. Night break program can be used to turn off the output at night, set the offset time and operation times of sunrise and sunset.

There is an internal battery which can protect real time clock and all the settings when the electric power supply is off.

☐ Technical data

Supply terminals	A1-A2
Rated voltage	AC/DC 24-264V
Rated frequency	50/60Hz, 0
Power consumption	2W
Supply volltage tolerance	±10%
Number of channels	2
Program	astronomical
Mode of work	manual, automatic, holiday,
Summer/winter time	off, automatic changeover
Time tolerance	⩽1s/day at 20°C
Power reserve	10 year
Data readout	LCD display, with back light
Number of contacts	2 C/O
Current of contacts	16A/250V AC1
Switching capacity	4000VA/AC, 384W/DC
Mechanical life	10^6
Electrical life	10^5
Rated insulation voltage	250V
Protection degree	IP20
Pollution degree	3
Altitude	⩽2000m
Ambient temperature	-30°C~55°C
Permissable relative humidity	⩽50%(40°C,without condensation)
Storage temperature	-30°C~70°C
Wire size	1mm² ~ 4mm²
Tightening torque	0.5Nm
Mounting	TH-35 Rail(EN60715)
Dimensions	90*36*65mm
Standard	IEC60947-1/IEC60947-2-7

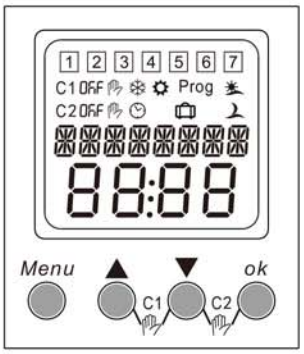
Maximum pilotable power

2300W	2300W	1000W	500W	500W

☐ Features

- Digital time switch with astronomical program
- 10 year power reserve(lithium battery).
- Sealable cover of the front panel, easy setting by 4 keys.
- Automatic summer/winter time switchover
- Back-lighted LCD display
- Holiday mode.
- 2 channels version(each channel can be assigned an individual program)
- Automatic transfer of weekdays
- 24-264V AC/DC input supply.
- Double-module, mounted on TH-35 rail.

☐ Operating instruction



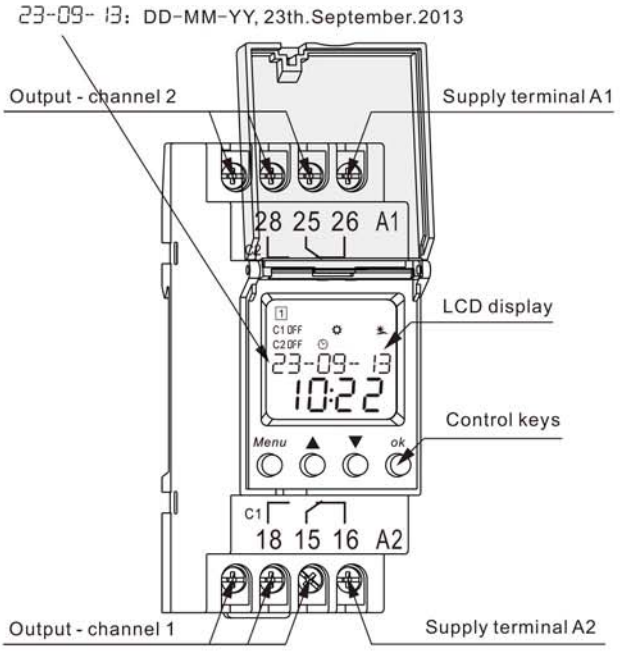
Symbol legend

1 2 3 4 5 6 7 — Days of the week Monday, Tuesday, ...Sunday

C1 — Channel 1
C2 — Channel 2
On OFF — Relay status
— Automatic mode
— Manual mode
— Holiday mode
— Sunrise
— Sunset
— Winter time
— Summer time
Prog — Program setting

Keys

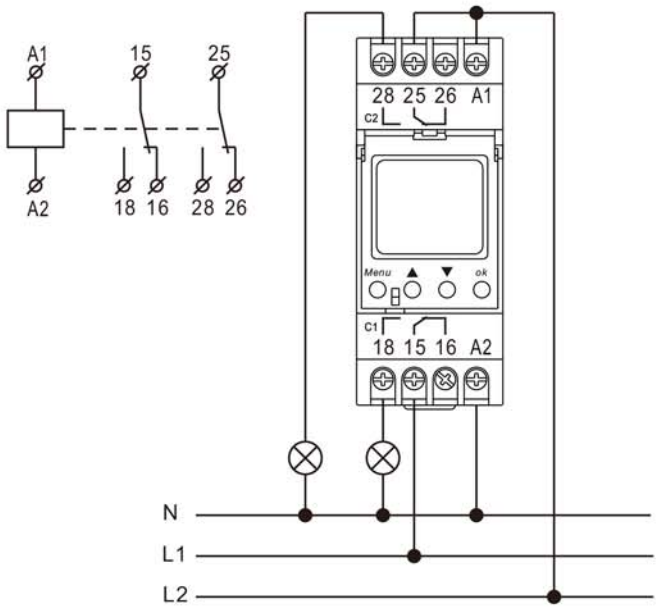
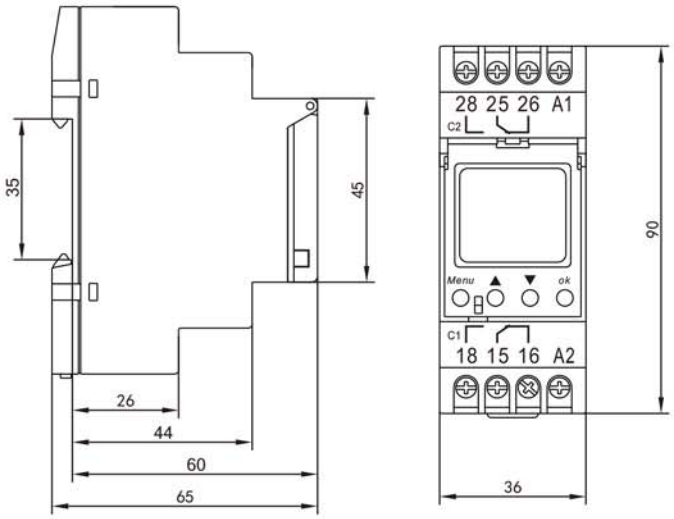
Menu ○ Enter main menu ○ Back to main menu	ok ○ Confirm selection
▲ ○ Select menu ○ Increase a numerical value	▼ ○ Select menu ○ Decrease a numerical value
▲ C1 ▼ ○C1 manual operation	▼ ok C2 ○C2 manual operation



☐ Mode precedence

Precedence	Display	Output mode
Highest ↑	On / OFF	Manual control
		Holiday mode
		Auto mode
Lowest ↓	/	Astro mode

☐ Wiring diagrams



☐ Dimensions