



ELKO EP ATS-1DR Analog Clock With Daily User Manual

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ATS-1DR
Analog time switch with daily program
User Manual



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Characteristics

- The mechanical time switch is a simple and inexpensive alternative to digital time switches for controlling real-time heating, ventilation, cooling, lighting or pump systems:
- Daily program

- Selection of operating modes using a switch on the panel:

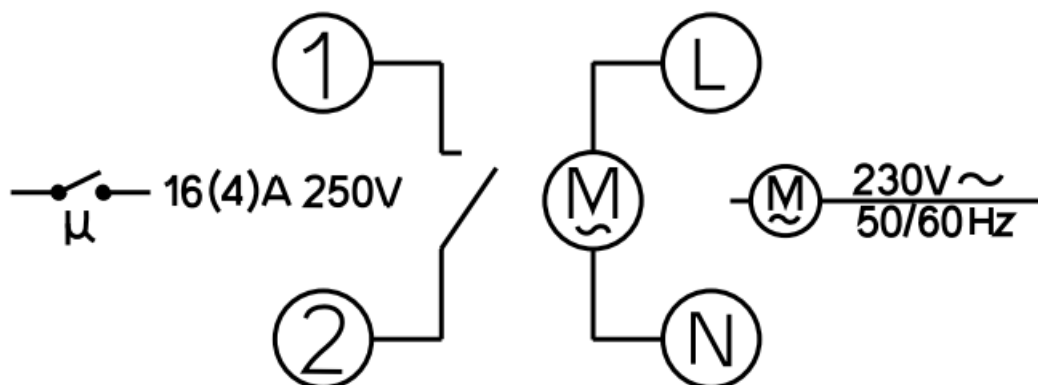


switches automatically according to the set

program **I** closes permanently

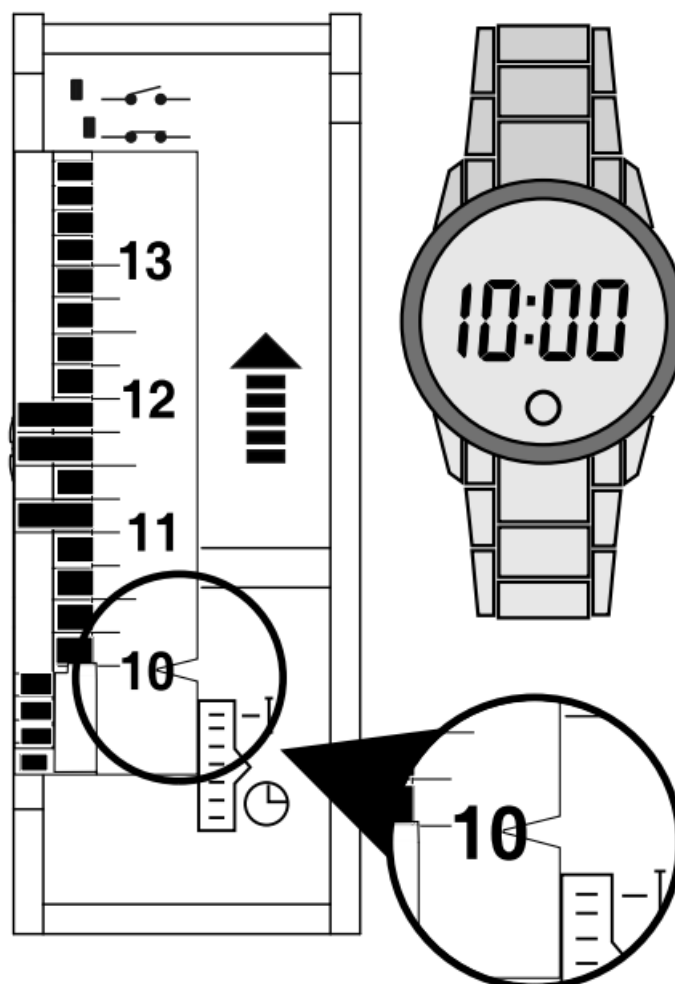
- Power reserve after power failure up to 100 hours, after fully charged.

Connection

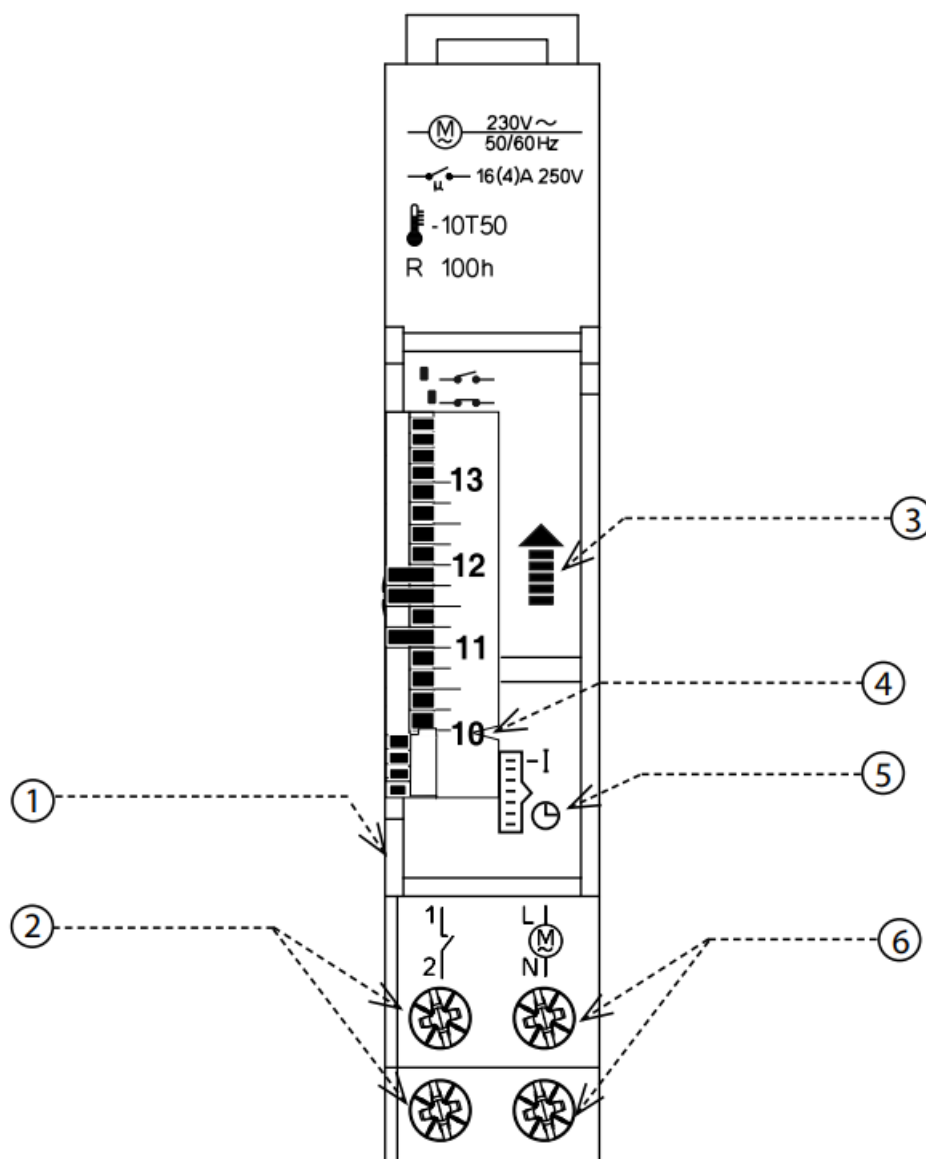


Time setting – daily program

Do not turn against the of rotation of the programming dial



Description



1. Transparent opening cover
2. Output contact (1-2)
3. Rotation of the programming dial
4. Time indicator
5. Operating mode switch
6. Supply voltage terminals (L-N)

Settings

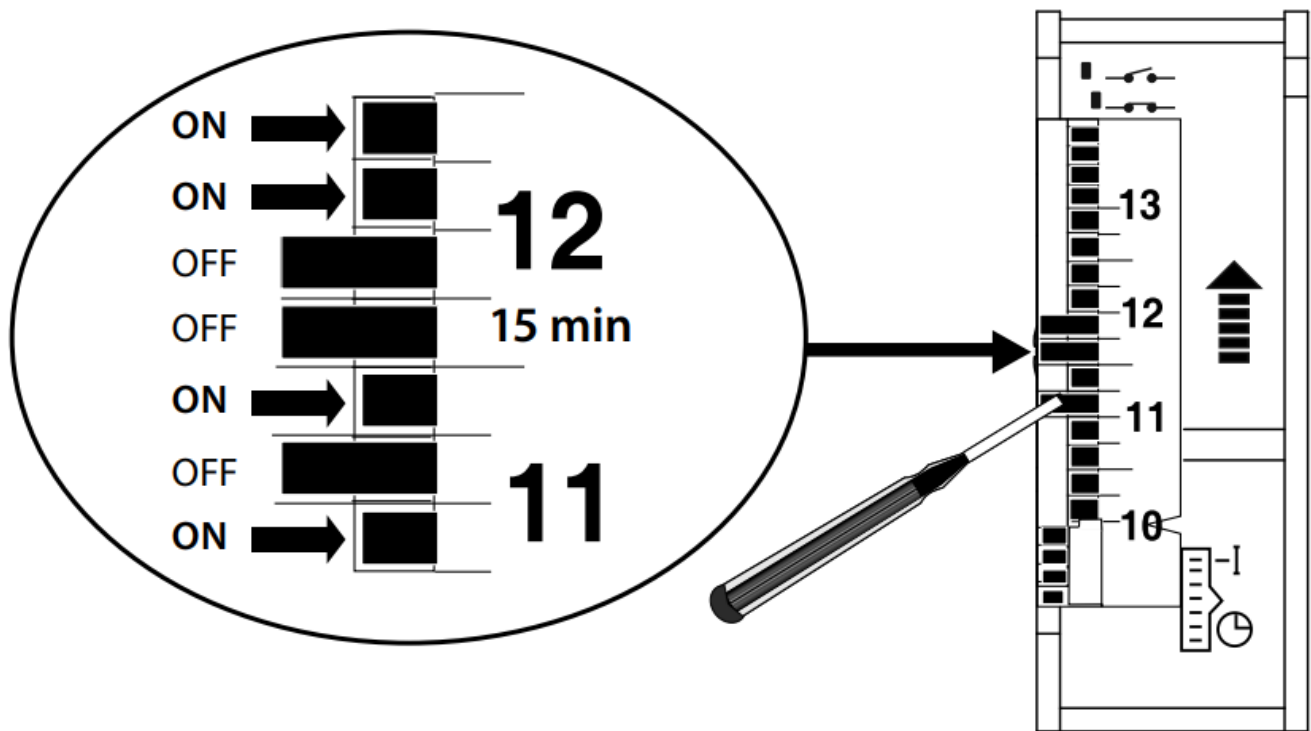
Minimum switching interval:

– daily, 15 minutes (1 segment)

High temperatures can affect the accuracy of the time switches




Push segments left – off Push segments to the right – on

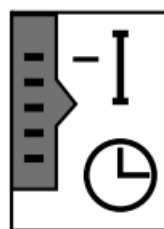


Example:

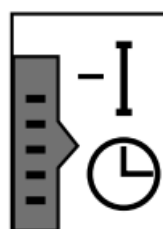
10:00 ... 11:00 ON
 11:00 ... 11:15 OFF
 11:15 ... 11:30 ON
 11:30 ... 12:00 OFF
 12:00 ... 13:00 ON

Operating mode

1. = **I** permanently closes
2. =  switches automatically according to the set program



1



2

Power reserve

Approximately 100 hours after being connected to the power supply, the power reserve reaches it's complete charge of 100 hours.

Technical parameters

TS-1DR

Supply

| | |
|---------------------------|---------------------|
| Supply terminals: | L-N |
| Supply voltage: | AC 230 V (50/60 Hz) |
| Power consumption (max.): | 1.5 VA/1 W |
| Supply voltage tolerance: | -10%;+10% |

Time circuit

| | |
|-------------------------------|------------------|
| Program: | daily |
| Number of switching segments: | 96 |
| Minimum switching interval: | 15 mins |
| Operating accuracy: | ±2s/day at 25 °C |
| Power reserve: | max. 100 hrs |

Output

| | |
|------------------------|-----------------|
| Number of contacts: | 1x NO (AgCd015) |
| Rated current: | 16 A/AC1 |
| Breaking capacity: | 4000 VA/AC1 |
| Switching voltage: | 250VAC |
| Mechanical life: | 100.000 ops. |
| Electrical life (AC1): | 30.000 ops. |

Other information

| | |
|---|--------------------------------------|
| Operating temperature: | -10 .. +50°C (14 .. 122 °F) |
| Storage temperature: | -10.. +50°C (14..122°F) |
| Dielectric strength: | 4 kV (supply – output) |
| Operating position: | any |
| Mounting: | DIN rail EN 60715 |
| Protection degree: | IP20 |
| Overvoltage category: | III. |
| Pollution degree: | 2 |
| Cross-wire section – solid/stranded with ferrule (mm’): | max. 1x 4, 2x 2.5/ max. 1x 4(12 AWG) |
| Dimensions: | 90 x 18 x 66mm (3,55-x 0,71-x |
| Weight: | 70 g (2.5 oz) |
| Standards: | EN 61812-1, EN 60730 |

Warning

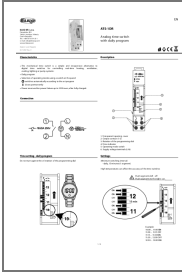
Device is constructed for connection in 1-phase network AC 230 V and must be installed according to norms valid in the state of application. Connection according to the details in this direction.

Installation, connection, setting and servicing should be installed by qualified electrician staff only, who has learnt these instruction and functions of the device. This device contains protection against overvoltage peaks and disturbances in supply. For correct function of the protection of this device there must be suitable protections of higher degree (A, B, C) installed in front of them.

According to standards elimination of disturbances must be ensured. Before installation the main switch must be in position “OFF” and the device should be de-energized. Don’t install the device to sources of excessive electromagnetic interference. By correct installation ensure ideal air circulation so in case of permanent operation and higher ambient temperature the maximal operating temperature of the device is not exceeded. For installation and setting use screw-driver cca 2 mm. The device is fully-electronic – installation should be carried out according to this fact. Nonproblematic function depends also on the way of transportation, storing and handling. In case of any signs of destruction, deformation, non-function or missing part, don’t install and claim at your seller it is possible to dismount the device after its lifetime, recycle, or store in protective dump.



Documents / Resources



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ATS-1DR Analog Clock With Daily, ATS-1DR, Analog Clock With Daily, Clock With Daily

References

- [E ELKO EP - Global relay manufacturer • ELKO EP](#)