



ELKO ep ATS-2D Analog Time Switch Instruction Manual

[Home](#) » [ELKO ep](#) » ELKO ep ATS-2D Analog Time Switch Instruction Manual 

Contents

- [1 ELKO ep ATS-2D Analog Time Switch](#)
- [2 Characteristics](#)
- [3 Connection](#)
- [4 Description](#)
- [5 ATS-2DR](#)
- [6 Technical parameters](#)
- [7 Time setting – daily program Day/time setting – weekly program](#)
- [8 Warning](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)



ELKO ep ATS-2D Analog Time Switch



Characteristics

- The mechanical time switch is a simple and inexpensive alternative to digital time switches for controlling heating, ventilation, cooling, and lighting systems, or pumps depending on real-time.
- Power reserve after power off for up to 150 hours after fully charged.
- Sealable transparent front panel cover.
- The ATS-2DR package includes a plastic DIN rail.
- Selection of operating modes using the switch on the panel

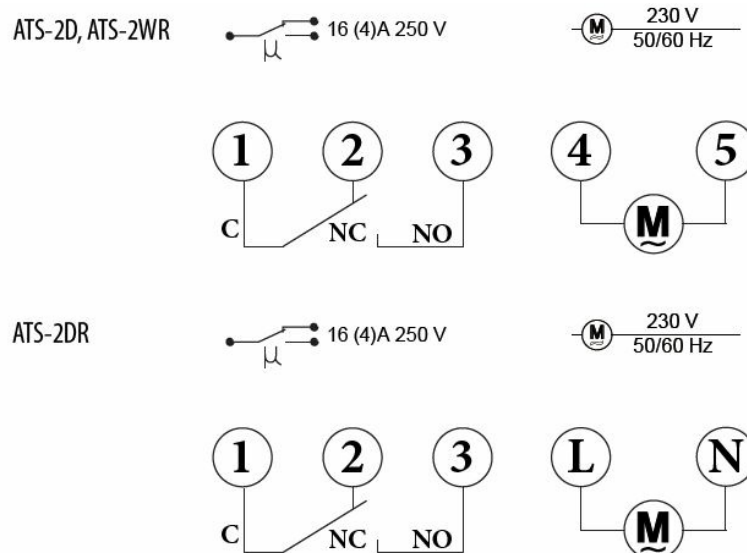
ATS-2D, ATS-2WR

- ⌚ switches automatically according to the set program
- I** permanently closes
- O** permanently opens

ATS-2DR

- I** permanently closes
- II** switches automatically according to the set program

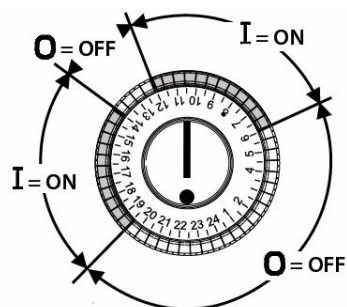
Connection



Setting

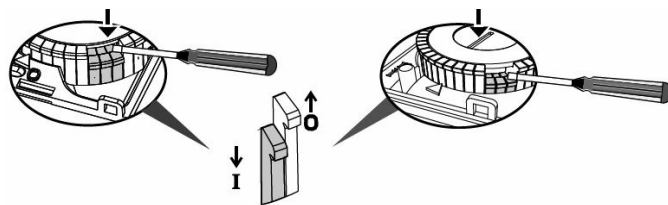
Minimum switching interval:

- daily 30 minutes (1 segment)
- weekly 210 minutes (1 segment)
- High temperatures can affect the accuracy of the time switches

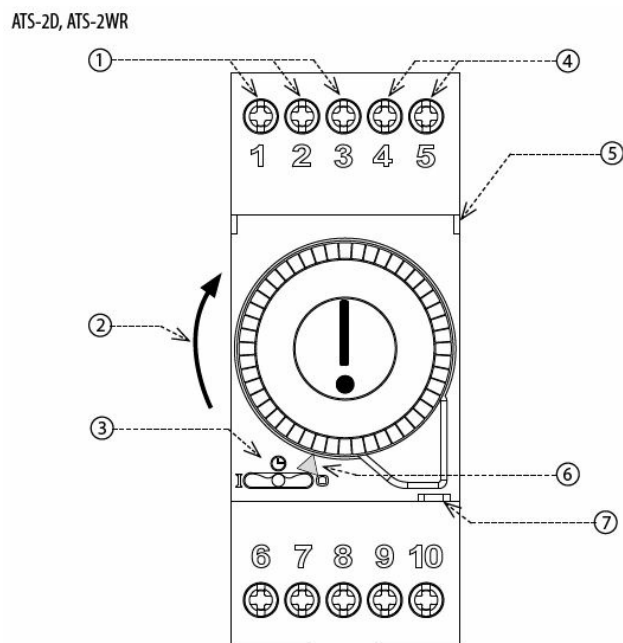


Example:
 06:00 ... 12:00 ON
 12:00 ... 14:00 OFF
 14:00 ... 19:30 ON
 19:30 ... 06:00 OFF

Lower the segments all the way down Lower the segments all the way down

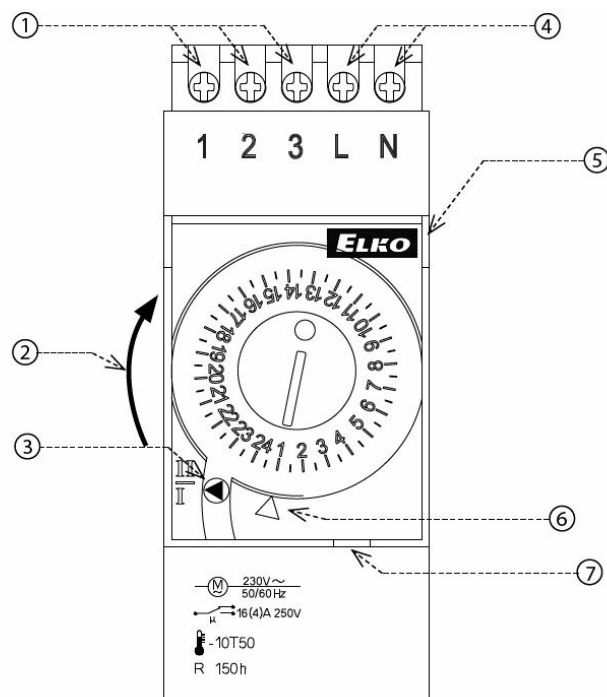


Description



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

ATS-2DR

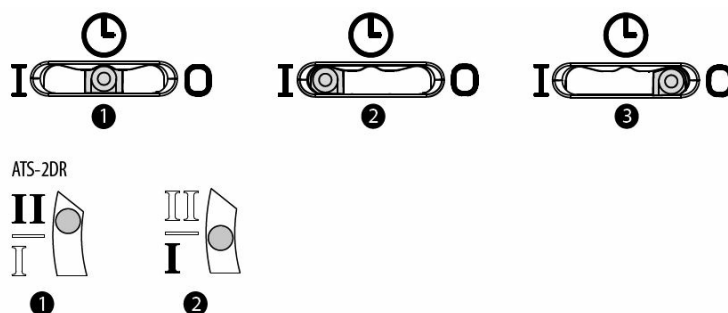


1. Output contact (1-2-3)
2. Rotation of the programming dial
3. Operating mode switch
4. Supply voltage terminals (L – N)
5. Transparent opening cover
6. Time indicator
7. Sealing spot

Operating mode

- switches automatically according to the set program
 permanently closes
 permanently opens

Power reserve (models only ATS-2DR, ATS-2WR)



The time switch starts working approx. 5 minutes after being connected to the power supply. After approximately 72 hours from the connection to the power supply, the power reserve reaches its complete charge of 150 hours.

Technical parameters

	ATS-2D	ATS-2DR	ATS-2WR
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Supply

Supply terminals:	4-5	L-N	4-5
Supply voltage:	AC 230 V (50/60 Hz)		
Consumption (max.):	1.6 VA/1 W		
Supply voltage tolerance:	-10%; +10%		

Time circuit

Program:	daily	daily	weekly
Number of switching segments:	48		
Minimum switching interval:	30 mins	30 mins	3.5 hrs
Operating accuracy:	±2 s/day		
Power reserve:	×	max. 150 hod	

Output

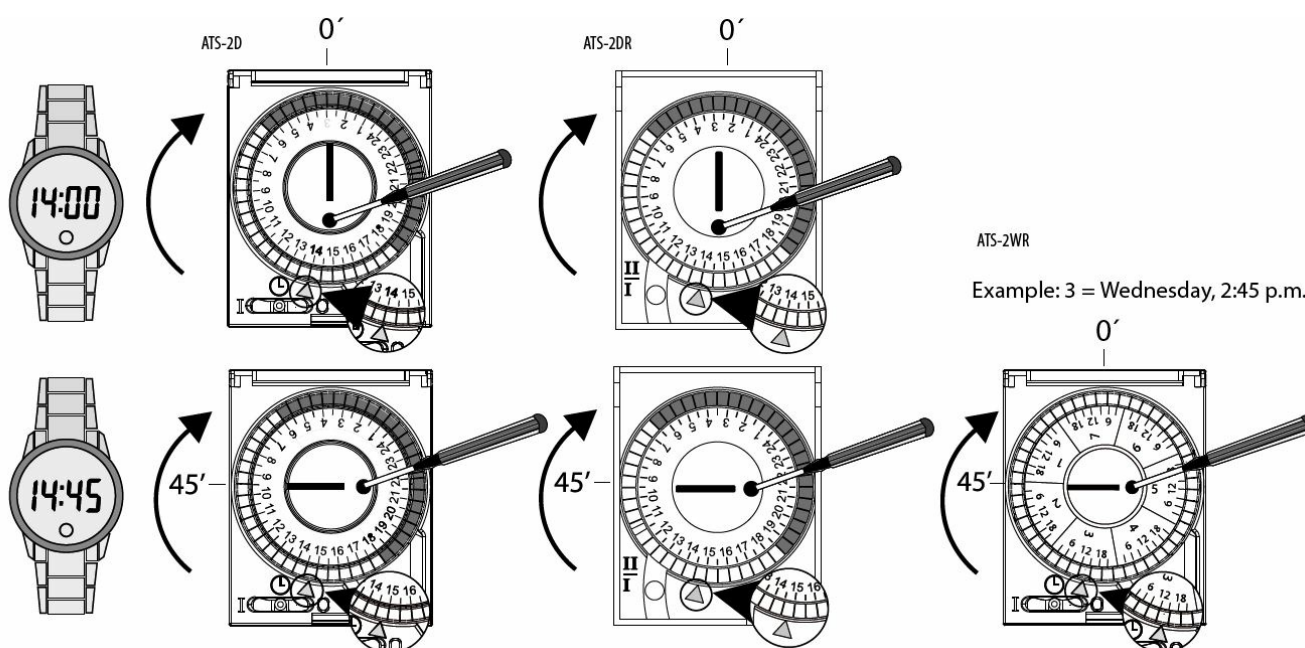
Contact type:	1 × changeover (AgNi)	1 × changeover (AgCdO15)	1 × changeover (AgNi)
Rated current:	16 A/AC1		
Breaking capacity:	3500 VA/AC1		
Switching voltage:	250 V AC		
Mechanical life:	2.000.000 ops.	100.000 ops.	2.000.000 ops.
Electrical life (AC1):	100.000 ops.	30.000 ops.	100.000 ops.

Other information

Operating temperature:	–10 .. +50 °C (14 .. 122 °F)
Storage temperature:	–10 .. +50 °C (14 .. 122 °F)
Dielectric strength:	AC 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 ²):	max. 1 × 4, 2 × 1.5/ max. 1 × 4, 2 × 1.5 (AWG 12)
Dimensions:	91 × 36 × 61 mm (3.6" × 1.4" × 2.4")
Weight:	120 g (4.25 oz)
Standards:	EN 61812-1, EN 60730-1

Time setting – daily program

Day/time setting – weekly program

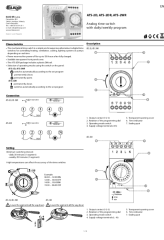


Warning

This device is constructed for connection in a 1-phase network AC 230 V and must be installed according to norms valid in the state of an application. Installation, connection, setting, and servicing must be carried out by qualified electrician staff only, who have perfectly understood the instructions and functions of the device. This device contains protection against overvoltage peaks and disturbing impulses in the power supply network. For the correct function of the protection of this device, there must be suitable protections of higher degrees (A, B, C) installed in front of them and according to the standards, interference of switching devices must be securely eliminated (contactors, motors, inductive loads, etc.). Before installation, make sure that the device is de-energized and the main switch is in the "OFF" position. Don't install the device to sources of excessive electromagnetic interference.

Ensure correct installation by perfect air circulation so that during continuous operation and a higher ambient temperature, the device does not exceed the maximum allowed operating temperature. For installation and setting use a screwdriver with a width of approx 2 mm. Keep in mind that this is a fully electronic device and approach accordingly with the installation. The non-problematic function of the device is also dependent on the previous method of transportation, storage, and handling. In case of any signs of damage, deformation, malfunction, or missing parts, don't install this device and claim it at the dealer. The product must be treated as electronic waste at the end of its life.

Documents / Resources

	<p>ELKO ep ATS-2D Analog Time Switch [pdf] Instruction Manual ATS-2D Analog Time Switch, ATS-2D, Analog Time Switch, Time Switch, Switch</p>
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References

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