

SET 45-18 Solar and Normal Time Clock.

Key Features

- Simple to Program - two buttons
- Backlit display
- Backlit programming buttons
- Installation test button
- Remote terminal connection
- Leap year correction
- Universal power supply
- Automatic BST/GMT change over
- Solar output & normal output
- Patented RAT Switching
- Anti-tamper transparent cover
- Tracks the sunset and sunrise for control lighting
- Patented dual batteries
- 10 Amp per output (*Max. 16A total*)

Applications

- Display lighting
- Amenity lighting
- Security lighting
- Street lighting
- Sign lighting
- Heating and ventilation

The SET 45-18 offers...

1. A choice of settings, outputs and functions
2. A combined clock, solar clock and calendar
3. Load handling capability
4. Ease of installation
5. Ease of maintenance
6. Dual battery program protection
7. Illuminated user interface
8. Universal power supply
9. Twin security feature
10. Comprehensive technical support
11. Factory programming facility



The SET 45-18

The SET 45-18 Universal Time Controller is designed to allow maximum energy savings along with it being simple to program - just two keys.

It is suitable for display, amenity, security, street and sign lighting. The *solar output* is an automatic dusk to dawn tracking switch. The *normal output* is a time based switch and is designed to control heating, ventilation and all types of electrical equipment.

Different to all other time clocks a small leakage current flows through the switching circuit of one milliAmpere when it is in the off state. The power failure protection of the programs is very innovative. Rechargeable NiMH batteries have a set number of charge and discharge cycles. This is not a problem for the SET 45-18 as the second battery takes over instantly from the rechargeable and extends the life of the time clock for another 5 years. This time clock can be factory programmed for a particular requirement, allowing the installer just connect the wiring.

1. A choice of settings and functions

Output #1 has eight switch settings, two of which tracks sunrise and sunset times throughout the year. Output #2 has twelve switch settings.

2. A combined clock, solar clock and calendar

The range has an internal clock calendar tracking the year, month, day, hour, minute and second. This can be set to the minute, automatically compensating for leap years and the change from summer (BST) to winter time (GMT).

(The solar clock tracks sunrise and sunset, and can be used to switch lighting as for photocell switching).

3. Load handling capability

The SET 45-18 has twin Relay Assisted Triac (RAT) Outputs. Loads can be switched up to a maximum of 10A per output. The unique RAT switch has been designed for switching reactive loads. Maximum current per output is 10 Amps.

4. Ease of installation

The SET 45-18 is DIN rail mountable, allowing easy installation in existing locations such as control cabinets with consumer units.

5. Ease of maintenance

To facilitate maintenance, loads connected to the unit can be manually switched on and off using the override (MAN) key. When the internal clock reaches an 'on' or 'off' setting the device will return to programmed switchings.

6. Dual battery program protection

5 years at 20°C from date of manufacture (internal Lithium Thionyl Chloride battery). 2 weeks from internal auxiliary rechargeable NIMH battery. Batteries are not drained by circuit when product is connected to mains supply.

7. Illuminated user interface

Backlit LCD and illuminated keys facilitates viewing and programming in dark locations.

8. Universal power supply

Allows the control to operate from 85V to 265V 50/60Hz. This feature allows the SET 45-18 to operate in many parts of the world.

9. Twin Security feature

A two digit security code must be entered to allow the user to program the SET 45-18. In addition, the front cover can be made tamper proof.

10. Comprehensive Technical Support

Contact us directly to discuss your particular requirements.

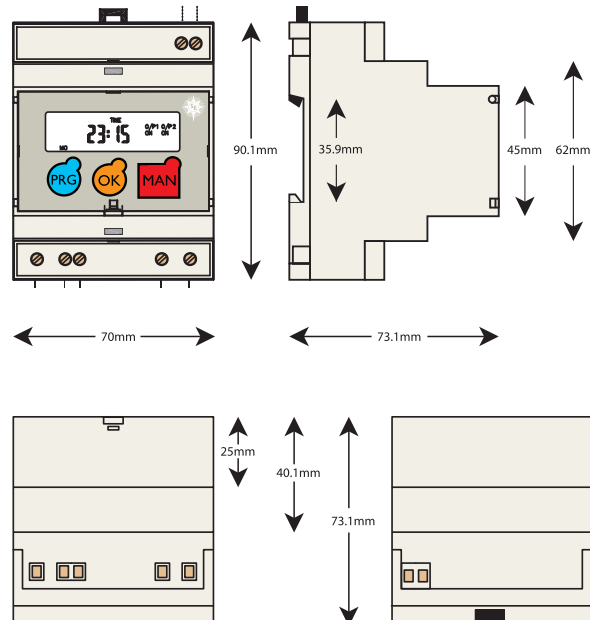
11. Factory programming facility available

This product can be supplied with customer's switching requirement pre-programmed. *(The unit must be connected to the mains within 10 days of leaving factory.)*

The SET 45-18's Multiple Features

- Easy to programme – just two keys with a manual key for test purposes.
- Modular design for ease of installation into electrical cabinets and consumer units.
- LCD backlit display with clear indications of settings.
- An internal dual NIMH battery pack with charger gives backup in the event of power failure.
- Unique facility enabling programming of the control while disconnected from the mains supply provided the battery is charged.
- Automatic leap year correction.
- Automatic winter and summer time adjustment, which can be de-activated if not required.
- Capable of numerous programmable functions.
- Security code prevents unauthorised programming.

Set 45-18 Dimensions



Solar and Normal Time Clock

full manufacturers 3 year guarantee



Specifications SET 45-18

Mains Input	85 - 265 volts 50/60 Hz.
Switch	RAT (Patented) 10 amps reactive inductive both outputs
Time Base	Quartz Crystal
Batteries	Dual (Patented) Lithium Thionyl Chloride and Nickel Metal Hydride.
Enclosure	Flame Retardant Plastic Protected to IP 20 with tamper proof transparent display cover.
Mounting	Symmetric Din Rail 35mm
Display	Illuminated Liquid Crystal Display
Programming Keys	Illuminated membrane
Operating Temperature	-10°C to + 45°C
EMC	EN 60730-1, EN 60730-2-7
Maximum Current	20 Amps (10 Amps per output)
Outputs	2

SELC products

