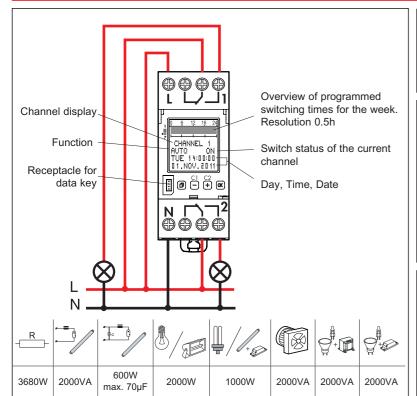


402/TD2

∆ Safety notes

This product should preferably be installed by a qualified electrician. Non compliance may result in a fire hazard or electric shocks. Before installation, read the operating instructions and observe the product specific requirements for the installation location. Use only original spare parts for repair and maintenance. All products may be opened and repaired only by specially trained personnel. Unauthorised opening and repair by other persons will invalidate all claims for liability, replacement or warranty services.

The device contains a LiMgO2 primary cell. When the product reaches the end of its life, this cell must be correctly removed and disposed of in accordance with national legislation and the requirements of environmental protection.



Operating principle: Type 1.B. S. T. IEC/EN 60730-1, IEC/EN 60730-2-7

Operation in a normal environment

Montage: in distribution panel, Degree of contamination: 2 Switch output, potential-free

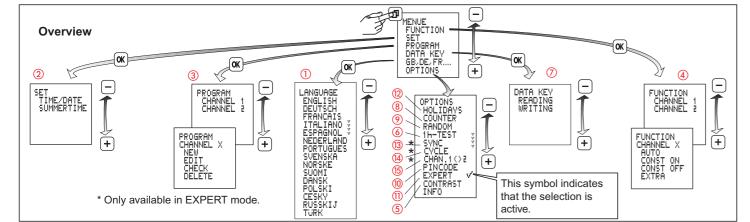
Rated impulse voltage: 4 kV

General information

- Start-up: after applying the supply voltage, the time switch starts automatically with the last selected function. The relay position is set by the current program.
- Battery backup

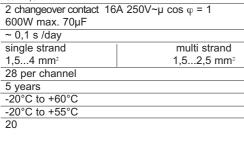
C1

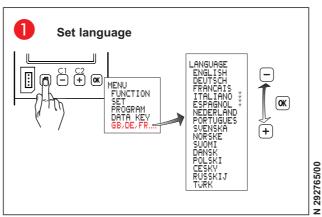
- Backlighting not active
- Data key READ/WRITE only via the menu
- · For saftety, when the time switch is connected to the mains supply the contact should not be used on an isolated low voltage supply and when the time switch is connected to the isolated voltage supply the contact should not be used on the mains supply.
- Select menu, back to main menu, Hold down > 1s = operating display
- (ox) Confirm selection or load parameters
- · Select menu options or set parameters
 - · Channel selection

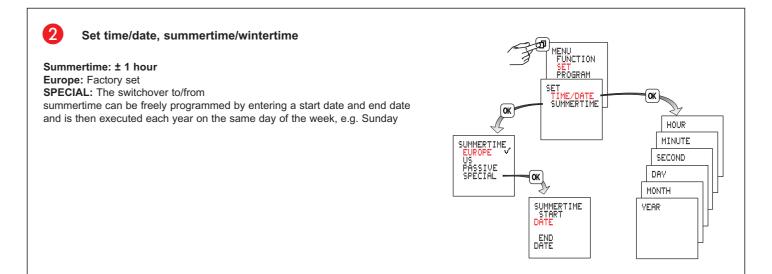


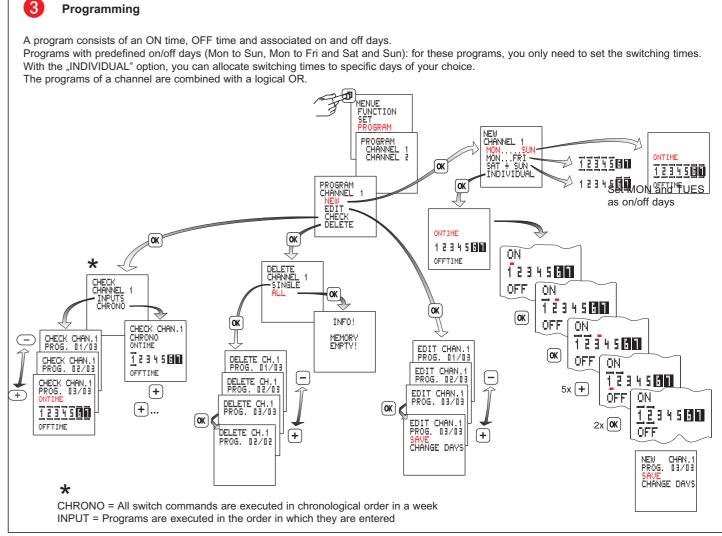
Technical data 230V 50/60Hz Supply voltage: ca. 1,5 W Consumption: 2 changeover contact 16A 250V~ μ cos ϕ = 1 Contact rating: Parallel compensation 600W max. 70µF Accuracy: ~ 0,1 s /day multi strand single strand

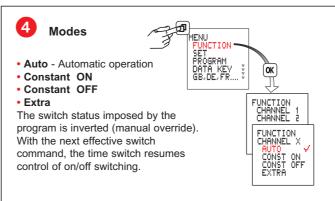
Terminal capacity: Programmes: Battery reserve: Storage ambient: Working ambient:

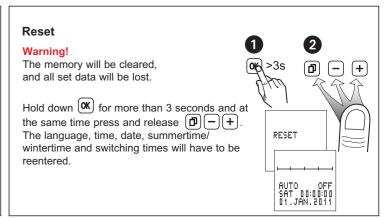


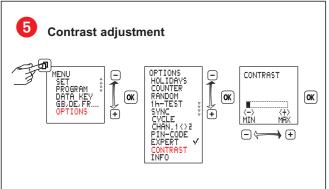


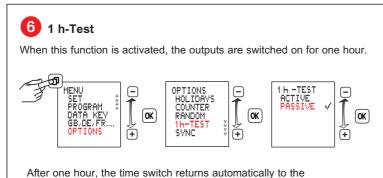


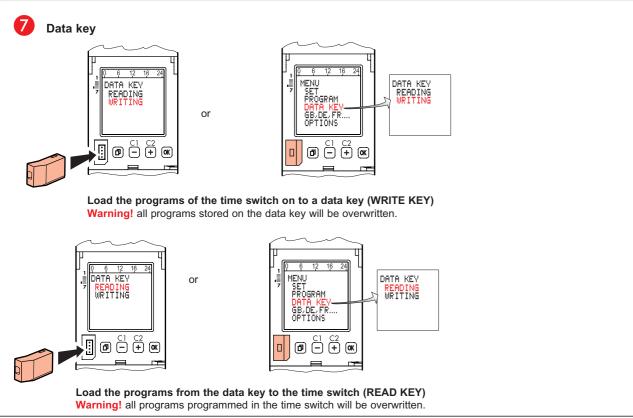




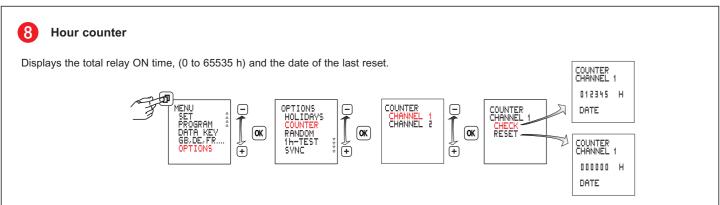


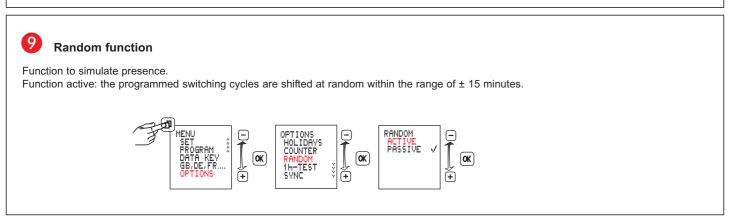






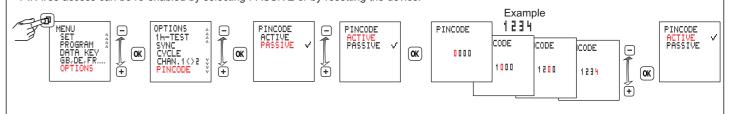
programmed mode.





Pincode

PIN CODE active: The menus of the time switch will not be accessible unless the PIN CODE has been entered. When the pin code is active, access to the button and key functions is disabled 1 minute after the last button press. PIN free access can be re-enabled by selecting PASSIVE or by resetting the device.





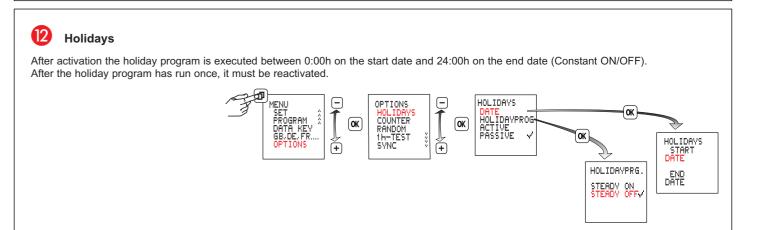
Expert mode

Some additional functions are available in Expert mode:

- · Power grid synchronisation to improve the accuracy
- Cvcle function
- Automatic channel switching



Note: Upon switching from ACTIVE to PASSIVE the additional menu items are hidden again and all the Expert mode settings are cancelled. After re-activating, Expert mode will operate again with the basic settings.

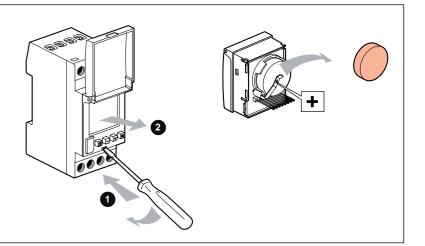


Activating and deactivating grid synchronisation Only available in EXPERT mode

The default setting is PASSIVE. In order to improve the long-term accuracy, it is advisable to activate synchronisation if the time switch is supplied from a on 50/60 Hz grid with frequency adjustment.



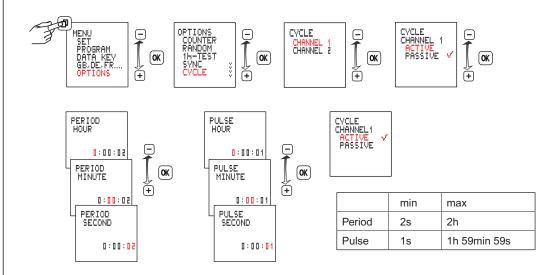
Switch off the device before dismantling the module. Do not switch on again until the module has been installed. Always use a Li cell type battery (LiMnO₂) CR2477, 3V, high temperature type min +70°C

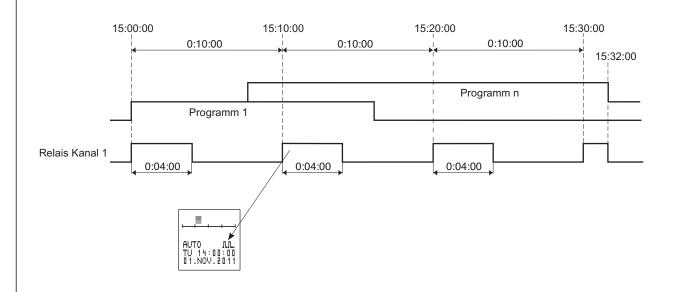




For cyclical switch commands the switching on time is set by logical "OR" of programs of all types. A fixed cycle of ON and OFF time then operates within those limits. The cycle always starts with the ON time.

The cycle duration and the ON time within the cycle are the same length for all switching times. The cycle duration and the ON time can be set independently in one-second increments. If the switching time is shorter than the cycle duration, the cycle will be shortened accordingly. The ON time will remain unchanged. If the switching time is actually shorter than the ON time, the ON time will be shortened accordingly.







Automatic channel switching

Only available in EXPERT mode

On two-channel time switches a cyclic switch between channels can be set to conserve and/or ensure even use of connected equipment such as lamps and lights.

For example, with two sets of lights, one can be used all night long and the other for part of the night only. However, cyclical inversion of the outputs ensures that the lamps are on for the same length of time on average.

The outputs are automatically swapped over once a day (12 noon) or once a week (Sunday at 12 noon).

