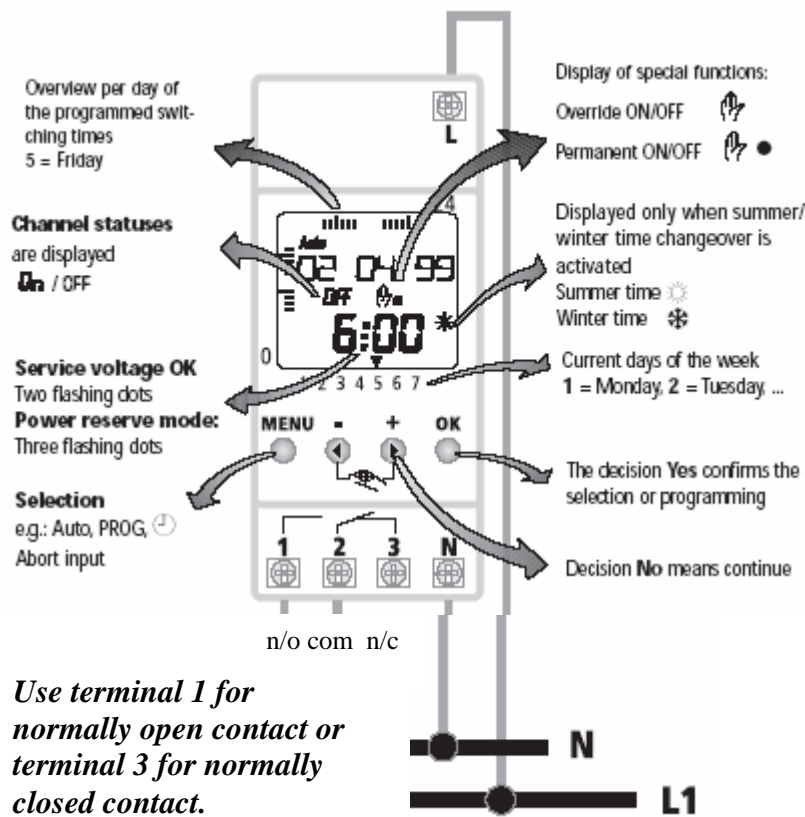




# Time Controls Data Sheet

**1 Channel, 7Day Timer**  
**Product Code: TSD1**  
**Modules: 2**



*Use terminal 1 for normally open contact or terminal 3 for normally closed contact.*

**Safety Information**

The connection and installation of electrical appliances must be performed by a skilled electrician only. Any intervention into or modifications to the appliance shall lead to the lapse of all warranty rights. Comply with your national regulations and all relevant safety stipulations.

### 1. info

The timer is delivered in so-called sleep mode.  
**To activate without a service voltage:**  
 Briefly press the **MENU** key.  
**Activate with mains voltage:**  
 If the timeswitch is already pre-programmed with the actual time, the weekday, and the changeover setting for Summer /Winter time, the actual time and status display appears after selection of the National language.  
 If the timer is not pre-programmed:  
 First select your National language and then enter the actual date and time.

### First contact

Selection of the national language  
 Initial operation

### 2. action

**Activate the clock, select the national language**  
 By pressing the **←** or **→** key select your national language.  
 Store your selection by pressing the **OK** key.

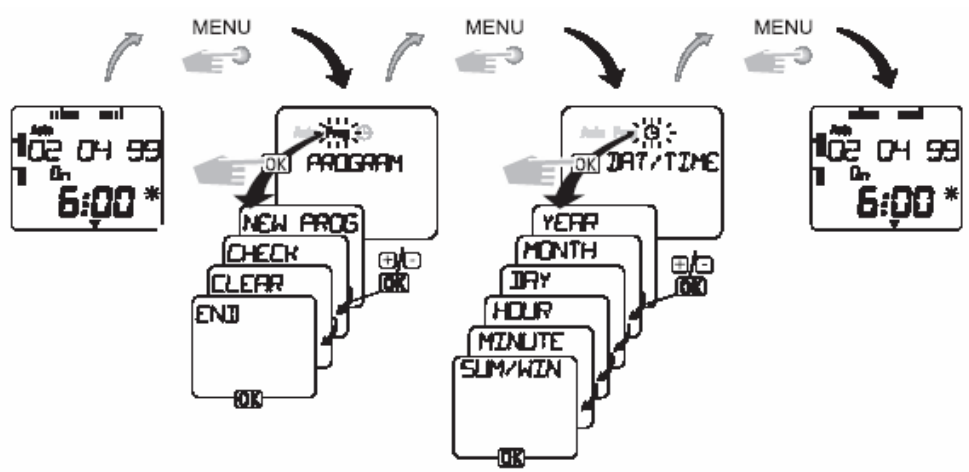
**OK** The decision **Yes**, confirms the selection or programming.  
**←** The decision **No**, means continue.  
 Set or amend by pressing the **→** or **←** keys.

### 3. info

**For programming, viewing, amending or deleting**  
 First of all read the text display.  
**Menu selection:**  
 Select by pressing the **MENU** Prog key  
 Confirm by pressing **OK**.  
 By pressing the **←** key select the desired menu, e.g. New, View, Amend or Delete.  
 Confirm your selection by pressing **OK**.  
**Set or change:** by pressing **←** or **→**.  
 Store by pressing **OK**.  
**To display the switching times:**  
 In the menu View, press the **OK** key several times.

**Info**

**In emergency situations only:** Should you press RESET on the timer, all stored data will be deleted. However, the timer will then still display the language last selected and the summer/ winter norm time changeover last selected. Press the RES key with a pointed object for approx. 1 second.



# Technical Data: 230v~ +/-10% 50-60Hz 240v~ + 6% -14% 50-60Hz

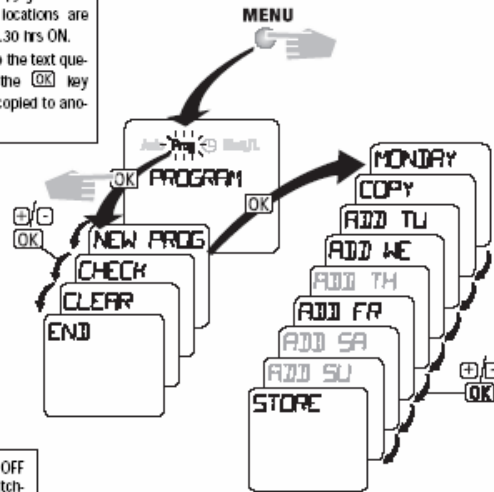
min. - 10° C to max. + 50° C	Lithium, ap. 4 years power reserve	Degree of protection II EN 60730 IP 20 EN 60529	2x 16(10)A 250 V~ min, 100 mA 24V AC/ DC	2300W	9 x 7 W 7 x 11 W 7 x 15 W 7 x 20 W 7 x 23 W
Type 1 BSTU IEC/EN 60730-2-7	42 memory locations	AgSnO	2300W	1000 W	400 W (42µF)

**info**

**Formation of day groups**  
If the same switching times are active on several days of the week, they occupy just **one** memory location. 42 memory locations are available, e.g. Monday – Friday 7.30 hrs ON.  
**Group formation:** In answer to the text question Copy, decide by pressing the **OK** key that the day program should be copied to another day of the week.

**Programming the switching time**

Switching times for lighting systems, machines, ventilation systems, alarm systems etc.



**info**

When programming an ON and OFF switching time, e.g. 9 AM, a switch-off at 9 AM always has priority.  
**Program review:**  
Following programming the timer makes a program review back to midnight and then sets the correct switching status.

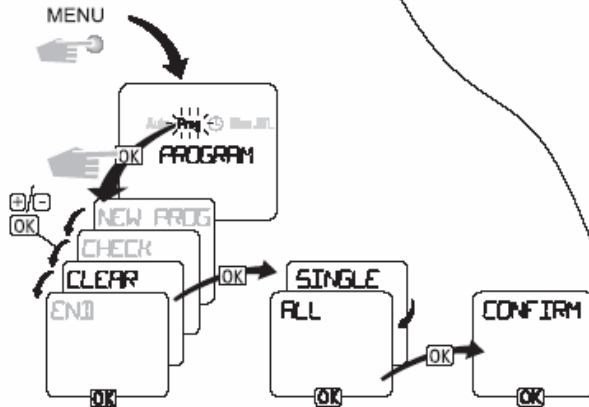


**action**

**Example:** Switching on the lighting of a sports hall on Mon., Tues., Thurs., Fri. from 7.30h until 12h.  
**Programming example:**  
Select **Prog** by pressing the **MENU** key.  
Store your selection by pressing the **OK** key.  
Select **New** by pressing the **+** or **-**.  
Store your selection by pressing the **OK** key.  
Select channel C1 or C2 by pressing **+** or **-**.  
Store your selection by pressing **OK**.  
Select ON or OFF by pressing **+** or **-**.  
Store your selection by pressing **OK**.  
Set the hours and minutes by pressing the **+** or **-** key.  
Store selection by pressing **OK**.  
**To store this day of the week only:**  
Select weekday by pressing **+** or **-**.  
Select store by pressing **+**.  
Store by pressing **OK**.  
**To copy to other days of the week:**  
Store **copy** by pressing **OK**.  
Select weekday by pressing **+** or **-**.  
Store by pressing **OK**.  
To leave out a day of the week, skip by pressing the **+** key.  
Finally select the store display by pressing **+**.  
Store your selection by pressing **OK**.

### Override Permanent ON or OFF

#### Individual deletions



#### Via the automatic menu **AUTO** only

	Channel C1	Channel C2
Press the two keys for approx. 1 s	<b>Manual preselection:</b> Press keys simultaneously Channel C1 switches alternately ON or OFF. Symbol  appears. Manual preselection is corrected again by the stored program.	<b>Manual preselection:</b> Press keys simultaneously Channel C2 switches alternately ON or OFF. Symbol  appears. Manual preselection is corrected again by the stored program.
Press both keys for approx. 2 s	<b>Permanent OFF</b>	<b>Permanent OFF</b>
<b>Cancellation of manual preselection/ permanent switching:</b> Briefly press the keys shown above.		

### Setting/ correcting the date and time summer/winter time

#### info

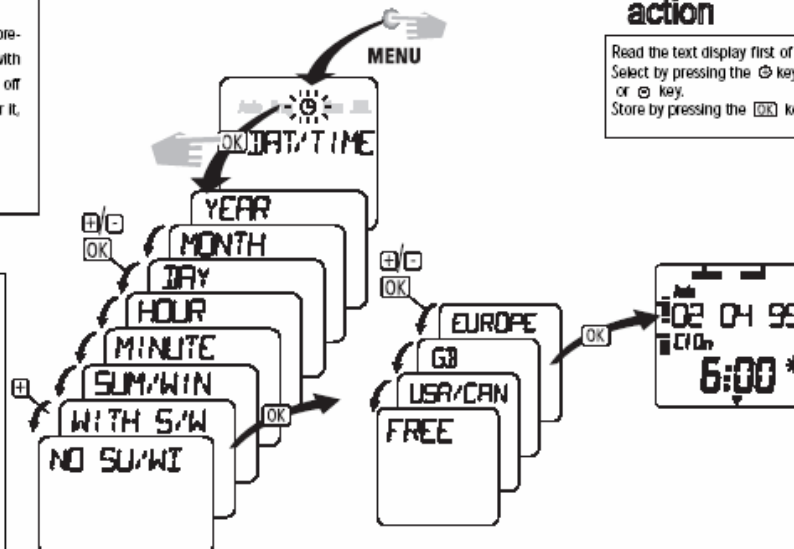
**Automatic summer/winter time correction**  
 According to version the timer is pre-programmed ex-works complete with the change-over. Should you switch off the automatic facility or wish to alter it, first of all read the text display. Select by pressing or . Store by pressing .

#### info

Free Prog to select sum/win change-over other than EUR-GB-USA. Select sum/win, and after with sum/win. Store with . Select rule FREE - with buttons or . Input month and weeks for sum/win. Store with . E.g. Month = March Week 4 = fourth week Week 5 = last week in month Note: In sum/win free Prog the time change is set automatically at sunday 2 AM. Time change is not available.

#### action

Read the text display first of all. Select by pressing the or key. Store by pressing the .



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