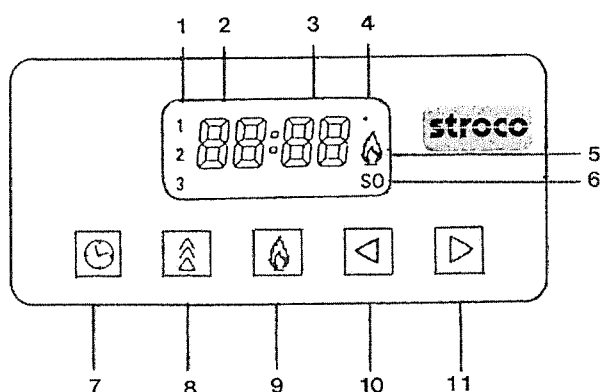# 7-DAY DIGITAL TIMER

1. Preselection of time
2. Time/preselected time
3. Operating time
4. Temperature display
5. Operation check
6. Display of day
7. Setting/checking of time/day
8. Setting/checking of preselected time/day
9. Instant heat (heating system on/off)
10. Return flow timer or preselected time.
    Check or reduction of operating time
11. Forward flow timer, or preselect time,
    checking of temperature

DESCRIPTION

This digital timer with day timer can be utilised to switch the heating system on and off. It has the following functions:

* Indication of time.
* Indication of day.
* Programming of start time (3 different times which, individually, can be programmed up to 7 days in advance, with day and time).
* Indication of temperature (if required).

The digital timer has integrated display and keypad illumination.

TECHNICAL DATA

Voltage range:	With 12V: 9.........15 volt
	With 24V: 18.......30 volt
Operating temperature range:	-40°C...................75°C
Power consumption if display off:	(standby current): </= 1,0 mA

Electrical connection

Plug 1:	Inlet for instrument light (clamp 58)
Plug 2:	Control current
Plug 3:	Is not used
Plug 4:	**Must be connected to pin 12!**
Plug 5-9:	Is not used
Plug 10:	Ignition + (clamp 15)
Plug 11:	Plus +
Plug 12:	Minus -

NOTE

If the heater shall be running in excess of the programmed time, an extra contact must be mounted (+ to plug no. 2), or plug 10 of the timer must be connected to plug 11 and 1. In the last-mentioned case, the function of the timer will be as described in „ignition on".

1. TO CHECK TIME

If the vehicle ignition is on, the time is shown constantly in the window (2). By pressing key 7 the time is displayed for approximately 15 sec. if the vehicle ignition is off.

2. TO SET TIME

Depress key 7 until display flashes and then one of the setting keys 10 (reverse) or 11 (forward). After app. 2 sec. the display changes to „fast". Touching the keys briefly allows the time to be set at minute intervals. The programmed time or day is stored when the display stops flashing.

3. TO SET DAY

Depress key 7. Day is displayed (6). By hereafter pressing key 10 or 11 the wished day is set. The day which is displayed last is stored.

4. START OF HEATING SYSTEM - „INSTANT HEAT"

Depress key 9. Flame symbol 9 is now displayed in the window (5). If ignition „off": Heating system switches on immediately. Operating time 60 min.
Checking operating time: Briefly touch key 10. The operating time is displayed for app. 15 sec. If the key is depressed for more than 1 sec., the operating time is reduced! If ignition „on": Heating system continues to operate until switched off with key 9. If the ignition is switched off, the heating system continues to operate for app. 5 min. and then switches off.
To disconnect the heating system (before end of operating time): Depress key 9.

5. PROGRAMMED START AND HEATING SYSTEM

Depress key 8. In display (1) the digits 1, 2 or 3, are skown, which give the programme possibilities (1,2,3). You can now select between 3 different settings to start the heating system. Programme 1: Depress key 8 until digit 1 is displayed.

1. to set the desired start time.
When display flashes: Depress key 10 (reverse) or 11 (forward). After app. 2 sec. this will change to „quick". Briefly touching the keys allows the time to be set at minute intervals.

2. to set desired day.
After app. 5 sec. the day indicator (6) will flash. The desired day is set by pressing key 10 or 11. If no further key is depressed within 5 sec. the selected time and day is stored.

Programmes 2 and 3:
Identical with „programme 1" but with digits 2 and 3. At programmed start with ignition on, the heating system is operating for 60 min..

6. TEMPERATURE INDICATION (additional equipment)

Depress key 11. The indicated temperature is shown in display (4). The indication is retained until a new function is selected.

7. PROGRAMMING OF OPERATION TIME

The operation time can be set between 1 and 120 minutes. Do as follows:

When heating is interrupted, depress key 10, and the programmed operation time is displayed (normal setting 60 min.). Hereafter the operation time can be set with the keys 10 and 11. If the operation time is not being changed within 5 seconds the displayed operation time will be in force. After interrupted battery voltage the operation time will be reset to 60 min.

Example A.

Start I   Monday 06.00
Start II   Monday 14.00
Start III   Monday 18.00

I   Starting time I, II and III is set according to point 5.
II   Ignition off
III   Activate program no. 1 with key 8
       (heating system is now running for 60 min.)

Start no. 2

I   Ignition off
II   Activate program no. 2 with key 8
       (heating system is now running for 60 min.)

Start no. 3

Is done as start no. 2

IMPORTANT

When a programmed time has been used, the day is aytomatically set to the following day.

Changing from digital timer part no. 11008 to part no. 11008-1, it is necessary to make the following modification.

OLD (8 pin connector)   NEW (12 pin connector)

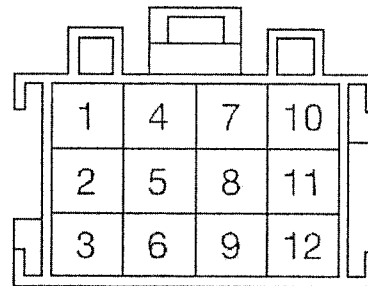1 Not in use

2 Not in use

3 Not in use

4 ——— 15 (+) ———→ 10

5 ——— 31 (-) ———→ 12

6 ——— 30 (+) ———→ 11

7 ———————————→ 2

8 ——— 58 (+) ———→ 1

1	4	7	10
2	5	8	11
3	6	9	12

Plug 4 in the 12 pin connector has to be connected with plug 12 in the 12 pin connector.