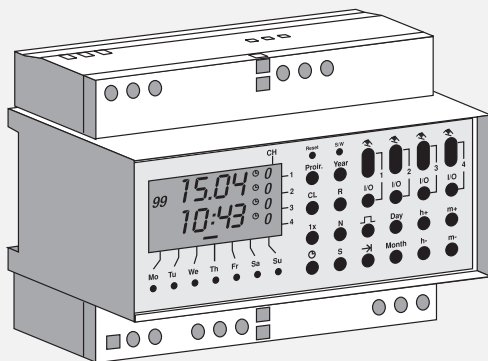# GIRA

Instabus 4-Channel Timer With Calendar Clock
Operating Instructions

Centrally Controls Lights and Appliances

Using the Instabus 4-Channel Timer With Calendar Clock you can flexibly control several lights or appliances. With only one central timer.

Either individually or in four groups. For example, group one for the garden lighting. Group two for the venetian blinds to the road. Group three controls the shading in the conservatory, group four the heating. Also even if these items are connected to different electrical circuits.

The programming of your Instabus is performed by your installer. Simply tell him which lights and appliances are to be switched.

You can set and change the on and off times yourself. There are 322 memory locations for setting the on and off times. In each location a time, the date and the group for which the setting is to apply can be saved.

Summer time – winter time is automatically taken into account, also 29 February in a leap year. And: with an antenna, the timer becomes a radio time signal clock – exact.

Requirements: an installed Instabus system with bus coupler module.

With Gira, your home is more comfortable, more secure and economical. You can find out what else Gira has on offer, as one of the leading manufacturers of modern systems for electrical installations, either from your installer, direct from Gira, or in the Internet under www.gira.de.

Contents

How the Timer Works – An Overview

You enter the required switching times. And whether switching on or switching off is required, the day of the week, or the date. Also you enter whether only one group is to be switched, all four, one off, the others on, etc.

For the routine weekly program, the days of the week are entered (Mo, Tu, We, etc.). For the calendar program, the date. A specific date (1 May) or a period (1.4 to 30.4).

There are 322 memory locations for programming. These are combined into blocks on saving. A maximum of 99. All switching times for the routine weekly program are automatically included in block 00. All others in block 01 to 99. The blocks have two advantages:

Firstly: switching commands and dates can be saved together in one block. If, for example, the same switching is to be performed at Easter, Whitsun and Christmas, it is not necessary to enter all the information three times. – The switching times are entered once and then the three dates. That's it. In this way it is possible, for example, to combine all switching commands for a switching group. Or a holiday program.

Secondly: A priority is assigned to each block. Automatically. The weekly program has the lowest priority with 0. Switching commands for a period are given a higher priority, priority 1. Individual items of data even higher with priority 2. – In this way it is certain that on 1 May, the commands saved for this date

are carried out and not the routine weekly program. The priority with which a block is carried out can be raised to 9 if required.

The stored calendar takes summer time and winter time into account, as well as 29 February in a leap year.

Switching state of switching group 1 to 4 ⎯⎯⎯⎯⎯⎯

Year ⎯⎯⎯⎯⎯
Switching time ⎯⎯⎯⎯⎯
Day of the week ⎯⎯⎯⎯⎯
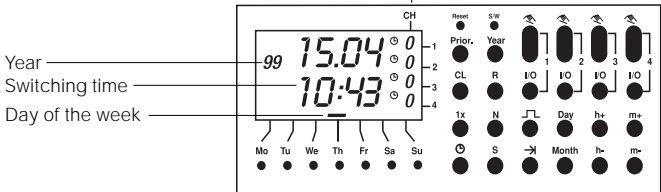
Res	Reset, set all entries to zero	⊓	Pulse: 1 to 59 seconds
Prior.	Priority (1 to 9)	→⫯	Change the input line
CL	Clear switching command		
1x	Carry out only 1x	**Day**	Day
⊕	Timer mode	**Month**	Month
S/W	Summer time	**h+/h-**	Hours (forward/backward)
Year	Year	**m+/m-**	Minutes (forward/backward)
R	Read memory		
N	Next entry	**I/O**	Programming on/off
S	Save	✍	Manual changeover

Setting the Time

Setting the Time
Not necessary if a radio time signal clock antenna is connected.

Press the ⊕ key and keep pressed. – Then set the day using **Day**, month using **Month** and the year using **Year**. For the time, hours using **h+** or **h-**, minutes using **m+** or **m-**
(To advance the time quickly, keep the key pressed.)

Summer/Winter Time Change Over
Change over is performed automatically on the last Sunday in March and October between 2 and 3 o'clock at night. This can be changed. HA is then displayed when the change over date is checked (instead of AU for automatic).

Modifying the Change Over Date
1. Press **S**/**W** – The change over dates are displayed. If modified dates have already been entered, HA for semi-automatic is displayed, otherwise AU for automatic.

2. Change day using **Day** and month using **Month**.

3. Move to the lower line using →|. Change day and month.

4. Save using **S** . – Return to the normal display using ⊕

Checking the Change Over Date

Press **S/W**. – The change over dates are displayed. – Return to the normal display using ⏱

Changing Back to Automatic (AU) from Semiautomatic (HA)

1. Press **S/W**. – Clear the dates using **CL** – press **S/W** again. The automatic change over dates are displayed.

2. Save using **S**. – Return to the normal display using ⏱

Summer time ——————————————
Summer time - automatic ——————
Summer time starts on ———————
Summer time ends on ———————

+1h 28.03
AU
30:10
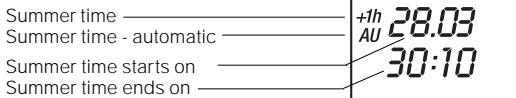
The Routine Weekly Program

Enter in this way everything that is to be performed every week. First write down what you want to enter, then begin entering the data. This is easier.

1. Switch to programming: to do this, briefly press one of the keys for the day of the week, time or I/O

2. Enter time. – Hours using **h**, minutes using **m**

3. Using I/O, select the switching action that is to be performed: on = I, off = 0 or no action (no symbol).

4. Clear days of the week not required.

5. Save using **S**. – Return to the normal display using ⊕

6. Change to the next data entry field using **N** and continue from point 1. – Or: save using **S** and return to the normal display using ⊕

Example:
Groups 1 and 2 are switched only on weekends at 8:30, group 4 is switched off and group 3 not switched.
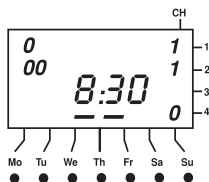
The Calendar Program

Enter in this way everything that is only to be performed on a specific day or over a specific period. Only when you have entered everything that is to be combined into a block, should you save your entries using **S**.

1. Press **Day** briefly, and enter the date. - Day using **Day**, month using **Month** .

2. Change to the lower line using →↓. If a period is required, enter here a second date – otherwise:

3. Move to the next data entry field using **N**

4. Move to the lower line using **h+** and enter the time. Hours using **h**, minutes using **m**

5. Using **I/O**, select the switching action that is to be performed: on = I, off = 0 or no action (no symbol).

6. Change to the next data entry field using **N** and continue from point 1. – Or: save using **S** and return to the normal display using ⏱

Change using →↓ ─┬─ First date ──────
                 └─ Second date ──────

$$\begin{array}{|c|}\hline {}^{1}_{01}\ \ 15.04 \\ \text{--:--} \\ \hline \end{array}$$
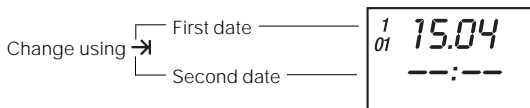
Further Programming Features

Switching Pulse 1 to 59 Seconds

Switch on followed shortly after by switch off. Procedure as for calendar program or routine weekly program.

1. Using I/O, switch required switching group(s) to I

2. Then choose the switch on period using the ⊓ key. (Only possible if none of the switching groups is in the 0 state.)

Carry Out Only 1x

Before or after the entry of the date in the calendar program, press the **1x** key. The switching command is then only carried out in the current year. In the following year the command is no longer carried out.

Raising Priority

A priority is assigned to each block. Priority 0 for the routine weekly program. Priority 1 for switching commands with a period. Priority 2 for individual entries. 1 and 2 can be increased if required. The highest priority is 9. Procedure as for the calendar program or routine weekly program. Or as described below, under Changing or Clearing Switching Commands. Prior to saving, set the priority to the required level using the **Prior.** key.

Test Run

Press ⏲ key and keep pressed. Run through the individual switching commands using →|

Skipping Blocks

To do this, keep the **R** key pressed. The first switching command in block 00 is displayed. With each press of the **N** key, the first switching time and date in the next block is displayed. Within a block, only press **R** again. Using **Res** the entire memory is cleared.

Priority ——— 0   1
Block ——— 00 8:30 1
                    __ 0
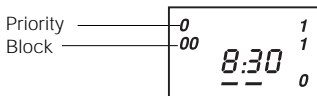
Changing or Clearing Switching Commands

1. Go to the required switching command using **R**

2. Change by overwriting. – Or clear that which is shown on the display using **CL**

3. Save using **S** and return to the normal display using ⏱

Manual Switching

You can interrupt the program at any time. To select, press the ✎1, 2 3, or 4 key as many times as required. – Symbol:

✎   On or off to the next switching command
FIX I   Continuous on
FIX 0   Continuous off
⏱   Timer mode

For the Installer

Installation and fitting only by a qualified electrician. Specialist knowledge from an Instabus training course is required.

The terminals marked with + / - are only for connecting the DCF 77 radio antenna. Installation is only to be performed with the circuits isolated.

The unit is part of the Instabus EIB system. It complies with the EIBA directives. Planning, installation and placing in operation with the aid of EIBA-certified software.

The Instabus 4-Channel Timer With Calendar sends messages over the Instabus. For this action the Instabus Bus Coupler Module is required. Only sensors or actuators are connected to this module (e.g. Instabus Timer Module, Instabus Brightness Sensor Module as sensors; e.g. Instabus Actuator Module). A maximum of 4 channels can be evaluated. The AST feed through is used for the connection to the REG Bus Coupler that uses four address locations. A data rail is not necessary. (Function is software-dependent. For information see the product database at www.gira.de).

$C\,\xi$ The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of properties.

Placing in Operation

Software

1. Connect the REG Bus Coupler and assign the physical address for this unit: apply bus power, press key on Bus Coupler, LED illuminates. Load the unit from the ETS using the serial interface. LED goes out.

2. Start the user software for the REG Bus Coupler in the ETS, set the parameters, e.g. group addresses, functional behaviour, etc.

3. Load the prepared software into the REG Bus Coupler using the serial interface.

Note: The link to the REG Bus Coupler uses all 4 binary inputs on the Bus Coupler. When programming, pay attention to the allocation of the address locations. Addresses 1 to 4 are used. The REG Bus Coupler is coded in the factory and it is only possible to load company-specific software.

DCF 77 Radio Time Signal Clock Operation
Option is not dependent on the EIB. Following connection of
the FA antenna and the NT power supply, the time signal
(DCF 77) can be received. This automatically sets the current
time and the date (CET = central European time). Summer and
winter time as well as leap years (29 February) are taken into
account.

In the event of the loss of the signal, the timer clock continues
to run based on the internal quartz clock. Once the signal is
received again, the time and date are updated.

For details, see the operating instructions for the Radio Time
Signal Clock.

Timer
1. Clip the timer to the DIN rail next to the Bus Coupler
   Module and slide the two modules together (connection
   using 10-pole multiway connector). Leave the rechargeable
   battery to charge for approx. 5 minutes.

2. Press **Res** – This resets all entries to zero. If the antenna is
   connected, the date and the time should be displayed
   after a maximum of 6 minutes. - Manual entry:

3. Set the time and the date as described above.

Ambient Temperature	-5 °C to +45 °C
Protection Class (VDE 0633)	II
Clock Precision	typ. ± 1 s / Day at + 20 °C
Clock Backup	72 h at +20 °C
Shortest Switching Time	1 second
Programmable	Every minute
Memory Locations	322
Switches	Automatic mode
	Switching preselection / FIX ON / FIX OFF
Block Formation	Day of the week and channel blocks can be formed as required
Summer/Winter Change Over	Automatic
Sealable	Yes

Manufacturer's Warranty

We grant the guarantee on our units - irrespective of claims arising out of the sales contract between the final consumer and the vendor - as follows:

1. Our warranty is limited at our discretion to the repair or replacement if the functioning is impaired or not ensured due to proven defects resulting from faults in material or workmanship.

2. The period of the guarantee is governed by our General Conditions of Sale. Adherence to this period must be justified by confirmation of purchase date in the form of invoice, delivery note or similar documents.

3. The costs of transport are borne in all cases by the purchaser.

Please return the unit postage paid to our central customer service center giving a brief description of the fault.

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstraße 12
D- 42477 Radevormwald
Federal Republic of Germany

Routine Weekly Program

Time	Switching Group				Day of the Week						
🕐	CH1	CH2	CH3	CH4	Mo	Tu	We	Th	Fr	Sa	Su
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Calendar Program

Block	Time ⏲	Switching Group CH				Date		
		1	2	3	4	from	to	Prior. 1x
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Block ⏱	Time	Switching Group CH				Date		Prior. 1x
		1	2	3	4	from	to	
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Please enter

Block:	00 to 99 as displayed
Time:	e.g. 18:15
Switching Group:	For on = I, off = 0
	or for pulse e.g. 15 sec.
Priority:	1 to 9
Day of the Week or 1x	Cross if selected

Tip: If there is not enough space here, use the tables enclosed.
Keep the tables and operating instructions next to the timer.