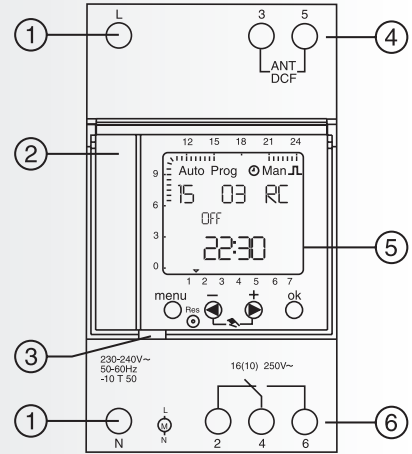
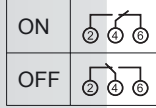


IHP DCF 1C: 15857



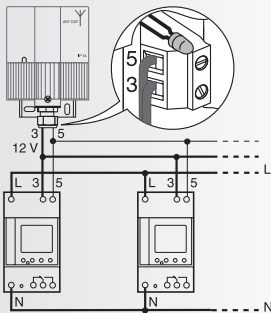
New IHP DCF features

- ① Power supply 230 V ±10%, 50...60 Hz
- ② Leaflet holder slot
- ③ Sealed pivoting cover
- ④ Connecting the antenna
- ⑤ Screen
- ⑥ Output contact:



Install your antenna

- Direct the front face of the antenna to face Frankfurt for optimum reception of the signals transmitted.
- Install your antenna:
 - outside the electrical switchboard (minimum 1 m, maximum 200 m)
 - outdoors, under shelter and as high up as possible.
- Do not install the antenna near:
 - radio transmitters
 - radiological devices
 - television sets and computers
 - metal reinforcements.
- Connect complying with polarity between the terminals of your IHP DCF and your antenna (terminals 3-5)
- in the event of reversal, the yellow indicator light on the antenna comes on



- you can connect up to 5 clocks maximum per antenna.

Commission your IHP DCF

- The language is displayed: you have 5 seconds to select the language of your choice by pressing the keys and .
- Once you have chosen your language, your IHP DCF will automatically try to synchronise on the DCF Frankfurt signal:
 - the symbol flashes
 - RC is marked in the centre of the display
 - the red indicator of the antenna flashes every second (direct the antenna until the most regular flashing possible is obtained).
- Your IHP DCF is synchronised:
 - time and date from Frankfurt are displayed
 - RC is marked to the right of the display
 - the symbol disappears.
- Your IHP DCF is not synchronised:
 - the symbol and RC disappear
 - date and time must be set manually (see § 8)
 - your IHP DCF continues to function with quartz precision until the next synchronisation (each night at 1 am, 2 am, 3 am and 4 am)
 - check the direction of the antenna and the risk of external disturbance.

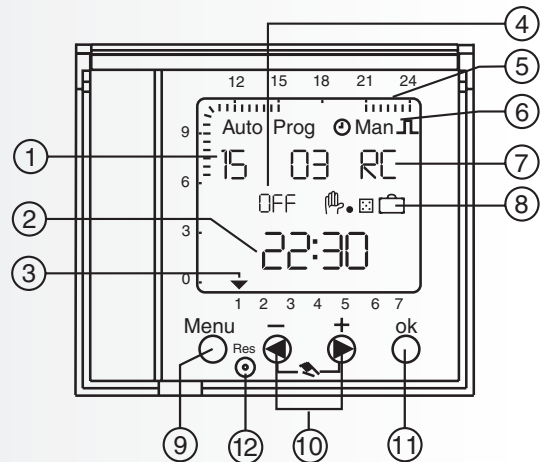
Synchronise your IHP DCF (after energising for the first time)

- Automatic synchronisation: each night at 1 am, 2 am, 3 am and 4 am
 - Manual synchronisation:
 - after a reset of the IHP DCF
 - press simultaneously on keys and for 4 seconds.
- If synchronisation fails, RC is replaced by the year to the right of the display (in case of Reset, date and time must be set manually (see § 8)).

New features on the display and the 4 keys of your IHP DCF

During synchronised operation, your IHP DCF displays:








- ① Date
- ② Time: displays operation on mains ":" or battery ":".
- ③ Days (1 : Monday, 2 : Tuesday...)
- ④ Output contact status display
- ⑤ Display of "ON" periods by 30-minute segment (e.g. displayed: 6 h 30 to 15 h and 21 h to 24 h)
- ⑥ Operating mode:
 - Auto:** automatic operation according to the memorised program
 - Prog:** programming, verification, modification and deletion
 - : modification of date, time and "OFFSET" function
 - Man:** programming the functions "random and "holiday
 - : programming pulses
- ⑦ Synchronising with the Frankfurt transmitter confirmed during the last 24 hours
- ⑧ Indication of "ON override , of "random and "holiday operation
- ⑨ Selection of operating modes
- ⑩ Value setting and navigation key
- ⑪ Flashing information validation key
- ⑫ Reinitialisation key: deletion of the program, date and time, optional re-selection of language and relaunching of the synchronisation.



Program your IHP DCF



- An IHP DCF lets you program 2 types of switching operation, namely: ON and OFF
To create an operating period, program an ON switching, followed by an OFF switching.
The **"REPEAT"** function is used to copy to other days the switching operation currently being created and thus to increase the number of possible switching operations (validate with **"ok"**, move to the next day using the **"+"** key, or return to the previous day using the **"-"** key)
- Access the **"Prog"** mode by pressing the **"Menu"** key. The **"Prog"** mode offers 5 options:
 - **"NEW PROG"** to build the program and store it in the memory
 - **"CHECK"** to display the program
 - **"MODIFY"** to update the program already memorised
 - **"CLEAR"** to delete part or all of the program (the date, time and choice of language are preserved)
 - **"END"** to leave the **"Prog"** mode and return to the **"Auto"** mode
- If you do not agree with the flashing word or value:** scroll down the display using the **"+"** and **"-"** keys
- If you agree with the flashing word or value:** validate with **"ok"**
- If you are lost:** press **"Menu"** to return to the **"Auto"** mode without saving
- If you activate no key for a 2-minute period:** automatic return to the **"Auto"** mode without saving.

Move to the temporary or permanent ON/OFF override .

- **Activate the temporary ON or OFF mode** (until the next switching operation) by simultaneously pressing the following 2 keys briefly (< 2 s)  :
 - the output contact changes status
 - the IHP DCF indicates by **"OVERRIDE **" the new output contact status.
 Return to the **"Auto"** mode by briefly pressing (< 2 s) these 2 keys.
- **Move to the permanent ON or OFF mode** by simultaneously pressing the following 2 keys for more than 2 seconds  :
 - each time the keys are pressed for more than 2 seconds, the output contact changes status
 - the IHP DCF indicates by **"PERM ON **" or **"OFF PERM **" the new output contact status.
 Return to the **"Auto"** mode by briefly pressing (< 2 s) these 2 keys.

Activate or de-activate the "random

Move to the "holiday

- The **"random **" mode is used to simulate presence during periods programmed in On
- The **"holiday **" mode is used to temporarily cancel programming of On periods by configuring the 2 dates corresponding to start and end of the holiday period
- Access the **"Man"** mode by pressing the **"Menu"** key:
 - choose using the **"+"** and **"-"** keys:
 - **"RANDOM"** to activate the mode or **"CLEAR"** to de-activate the mode
 - **"HOLIDAY"** to enter the OFF period (by specifying the holiday start and end dates).


Load table

- Acceptable power per output contact:
 - resistive loads: I max. = 16 A - 250 V~, I min. = 100 mA - 12 V~
 - motors: 2300 VA.


Type of lighting	Max. power per contact
resistive load	16 A
power factor = 0.6	10 A
incandescent lamp (230 V)	2300 W
halogen lamp (230 V)	2300 W
series uncorrected/corrected fluorescent tube	26 x 36 W, 20 x 58 W, 10 x 100 W
parallel corrected fluorescent tube with conventional ballast	10 x 36 W (4.7 µF), 6 x 58 W (7 µF), 2 x 100 W (18 µF)
dual-mounted fluorescent tube	10 x (2 x 58 W), 5 x (2 x 100 W)
fluorescent tube with electronic ballast	9 x 36 W, 6 x 58 W
dual-mounted fluorescent tube with electronic ballast	5 x (2 x 36 W), 3 x (2 x 58 W)
fluo-compact lamp with electronic ballast	9 x 7 W, 7 x 11 W, 7 x 15 W, 7 x 20 W
parallel corrected HQL fluorescent balloon	1 x 250 W (30 µF)
parallel corrected sodium vapour lamp	1 x 250 W (37 µF)

For the other applications, relay by CT contactor.

Modify date and time and the OFFSET function

- Access the **"**" mode by pressing the **"Menu"** key.
- Configure the date and time using the **"+"** and **"-"** keys.
- The OFFSET function allows for the time transmitted by the Frankfurt transmitter to be adjusted by + or - 1 hour.
Example
 - - 1 hour for Great Britain
 - + 1 hour for Finland.

Program "pulses

- Access the **"**" mode by pressing the **"Menu"** key
- Configure the duration of the pulse from 01 to 59 s
- Program impulse hours and days.

Characteristics

IHP DCF

- Consumption: 2 VA max.
 - Memory: 42 switching operations
 - Minimum time between 2 switching operations: 1 minute
 - Saving the program and time by lithium battery:
 - lifetime: 12 years
 - backup time: 4 years cumulated mains failure
 - Operating temperature: - 10°C ... + 50°C, (prefer installation in the coolest part of the enclosure)
 - Class II as per EN 60730 (product installed in enclosure)
 - Protection index: IP 20 as per EN 60529
 - Device of 1 B STU type as per EN 60730
 - Connection terminals:
 - max. capacity: 6 mm²
 - recommended screwdriver: flat Posidrive 1, 0.8 x 4 mm
 - Overall dimensions (9 mm pitch): 5 pitches
 - Weight: 190 g.
- ### Antenna
- Operating temperature: -20°C to +70°C
 - Degree of protection: IP54
 - Standard: EN 60529
 - Connection terminals: 1,5 mm²
 - Dimensions: 70 x 57 x 92 mm
 - Weight: 135 g