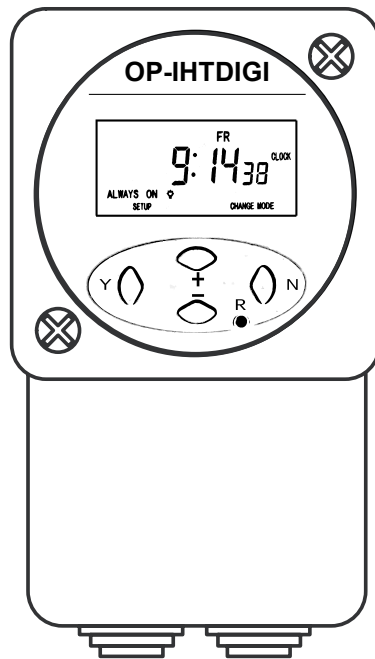


5. Summer / Winter Setting

1. Press the Y button, then use the + or - buttons to scroll through to “summer” (flashing).
2. Press the Y button again to access the summer time setting.
3. Press the + or - button to change between summer on or off.
4. Press Y to confirm summer setting, time will advance 1 hour.
5. A “SUMMER” icon will appear in the display.
6. Use the same procedure to remove the “SUMMER” icon when reverting to GMT in the winter.



6. Specification

Voltage: 220-240V AC 50-60Hz

Temperature rating T45

Switch type: changeover

Rating:

16A resistive / 4A inductive

Not suitable for direct switching of lighting types: HID, SON, LED—use a contactor

Class II control / Protection class IP20

Complies with European Norm

EN 60730-1: 2011

Automatic Electrical Controls for Household and similar use,

and European Directives:

LVD; EMC; RoHS

www.tfc-group.co.uk

TFC Group LLP Tonbridge TN9 1TB

OPTIMUM Time Switch

For immersion heater control
and general purpose use

User instructions

OP-IHTDIGI 24 Hour / 7 Day Digital
Min switching 1 Minute

1. Setting the timer
2. Setting a program
3. Checking the program
4. Manual Override
5. Summer / Winter Setting
6. Specification

1. Setting the timer

1. Press the R button to reset the timer to its default settings, activate using a pencil or similar pointed instrument. (pressing R will delete all stored programs)
2. Press Y to enter function setup. (Note: if another button is not pressed within 10 seconds the display will revert to the normal screen).
3. Use the + or - button to scroll to the clock icon (flashing) and press Y to enter the current time setting mode (hours flashing).
4. If you keep the + or - buttons pressed for more than 3 seconds, the display will enter fast scroll mode.
5. Use the + or - button to adjust the hours and press Y to confirm, minutes will flash.
6. Use the + or - button to adjust the minutes and press Y to confirm, day will flash.
7. Use the + or - button to adjust the day and press N to exit.

2. Setting a program

1. There are 24 ON/OFF programs available.
2. Press the Y button twice to enter the programming setting mode. (Note: if another button is not pressed within 10 seconds the display will revert to the normal screen).
3. Default is program 01 ON, this can be changed if required by pressing + or - button to scroll through the 24 ON/OFF programs as required, pressing the Y button will confirm the program.
4. Press the Y button to confirm program 01 ON, hours will flash.
5. Use the + or - button to adjust the hours and press Y to confirm, minutes will flash.
6. Use the + or - button to adjust the minutes and press Y to confirm, days will flash.
7. Apart from individual days of the week, The following day combinations of multiple day blocks can be selected by pressing the + or - buttons.

- Monday to Sunday
 - Monday to Friday
 - Saturday to Sunday
 - Monday to Saturday
 - Monday + Wednesday + Friday
 - Tuesday + Thursday + Saturday
 - Monday + Tuesday + Wednesday
 - Thursday + Friday + Saturday
8. Select day or day block as required and press the Y button to confirm.
 9. Press the + button, this will select the program 01 OFF, press Y to confirm.
 10. Follow 4 to 7 above to set the 01 OFF program (day or day block must be the same as program ON).
 11. If no more programs are required, press the N button to exit.
 12. If more programs are required follow 3.
 13. To cancel a program once set, press and hold the N button for more than 3 seconds when the desired program number is flashing i.e. to cancel program 01 ON, press the Y button twice and hold the N button down for more than 3 seconds to delete. Pressing

- The + button again will select 01 OFF.
14. Repeat 13 to delete 01 OFF.
This procedure can be repeated to delete any of the 24 programs.

3. Check Program Settings

1. Press Y button twice to enter program mode.
2. Press the + or - buttons to scroll through the 24 ON/OFF programs to check settings.
3. Press the N button to exit and revert to clock mode.

4. Manual Override

When in normal clock mode, pressing the **N** button will scroll through the following switching options.

- ☼ **ALWAYS ON** - timer is permanently "ON"
- ☼ **PROG** - timer is in program mode "ON"
- 🔒 **PROG** - timer is in program mode "OFF"
- 🔒 **ALWAYS OFF** - timer is permanently "OFF"

4, Wiring for general purpose use (as a volt-free control)

To convert the timer for volt-free applications, remove the brass link connected to terminals 2 & 3. Connect mains to terminals 1 & 2 (not polarity conscious).

Switching will occur across terminals 3, 4 & 5.

Common - terminal 3

Normally open (ON) - terminal 4

Normally closed (OFF) - terminal 5

Earth - Earth park terminal

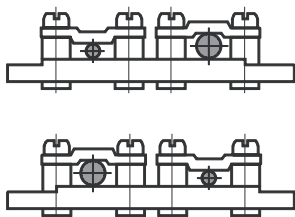


Figure 5.

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OPTIMUM Time Switch

For immersion heater control
and general purpose use

Installation instructions

OP-IHTDIGI 24 Hour / 7 Day Digital
Min switching 1 Minute

1. Immersion Heater Control
2. General Purpose Control
3. Wiring
4. Wiring for general purpose use
5. Specification

Please read the instructions fully before attempting installation.

IMPORTANT

Installation must be carried out in accordance with the current edition of the I.E.E. Wiring Regulations. It is recommended that installation is undertaken only by a qualified electrician.

- Timer must not be mounted on a flammable surface.
- Ensure that the timer does not come into contact with any combustible materials such as towels or bedding.
- Ensure at least a 300 mm air space is allowed around the timer.

Installation guide

Undo the recessed cross-head screws 'a' (see Fig. 3). Lift off the outer housing. Grip the square base of the timer and pull the timer away from the backplate.

Drill the wall to suit the three backplate mounting holes b, c, & d. Do not mount the timer on an un-earthed metal or metallised surface. Secure to wall surface using suitable wall plugs & screws.

1, Immersion Heater Control

Connect wiring according to the wiring diagram. (See Fig. 4.) When installing for immersion heater control ensure the brass link is correctly positioned and retained as pre-fitted to terminals 2 & 3.

2, General Purpose Control

Removal of the brass link converts the timer switch to a volt-free configuration. Secure cable and flex using clamps provided (see Fig. 5.) Do not connect unprepared stranded wires.

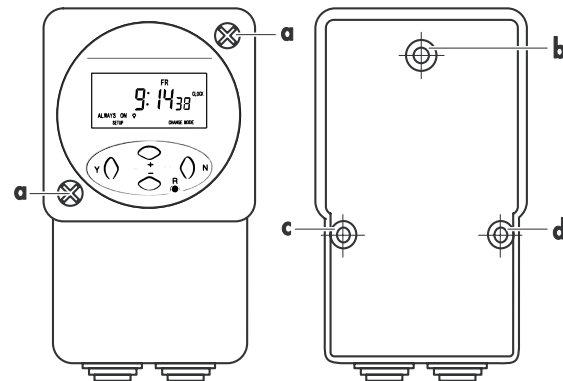


Figure 3.

Use ferrules supplied to crimp stranded wire terminations. Means of disconnection with minimum 3mm contact separation in all poles must be incorporated in the fixed wiring mains supply. Push timeswitch module onto backplate, ensuring good engagement of tab terminals. Refit housing to backplate.

3, Wiring

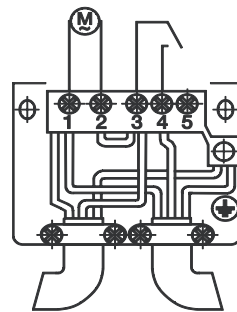


Figure 4.

Connections

Supply:

Live - terminal 3

Neutral - terminal 1

Load:

Live - terminal 4

Neutral - terminal 1

Link:

Terminals 2 - 3

Earth - Earth park

Wiring for immersion heater or mains-switching applications