Programming sequence

····→ Programme 3 Of Programme 3 OFF Programme 1 ON Programme 1 OFF Programme 4 ON Programme 2 ON Programme 4 OFF

Note: Button pauses greater than 1 minute during programming will result in automatic return to the operating mode.

Setting Clock (after reset)

Hour Setting - Press the <Change> button to advance the hour setting. Note: For rapid hour selections press and hold down < Change > button.

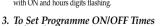


Minute Setting - Press the <Program> button once to select the minutes - display shows clock symbol and minute digits flashing. Press the <Change> button to advance the minutes setting. Note: For rapid minute selection press and hold down < Change> button, (Note: 16 hrs shown as example of hrs set)



1 2 3 4

Press < Program > button once - clock is now set and display shows ready for the first ON programme time with ON and hours digits flashing.



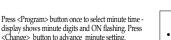
(after clock setting)

Programme 1 ON time

Press <Change> button to advance the hour setting.

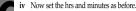


(Note: 16 hrs shown as example of hours set).



Press < Program > button once - the first ON time is now set and display shows ready for the first OFF -----

1 2 3 4



programme time.

Repeat steps i to iv to set the remainder of the 3 ON/OFF times as required. Note: Any unused ON/OFF programme should be skipped until the display shows normal operating mode. Do not programme '0's into unused

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Use the Change button to switch unit ON. After this the unit will operate normally to the programmes set.

Programme Review

To fast review the set programmes or for quick exit to normal operating mode press and hold the <Program> button.

Initiating Programme Mode This can be initiated any time during the normal operating mode, Press <Program> button and the Clock symbol, hrs and minutes symbols on the display will flash - this is review mode. If any change to programmes is required press <Change> button to initiate programme mode and then follow

6. Cancelling Programmes Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON or OFF programme to be cancelled press

the <Change> button until the hour digits show --: then press the <Program> button to clear the programme. The display will show the hour



1 2 3 4

and minute digits and ON or OFF flashing.

Self Cancelling Override To change the output status from ON to OFF or vice versa during normal operation press the <Change> button. The output status will change and indicate override is in set the Program button is pressed again to proceed to the next stage.

1234567

4. EMU17 & MEU17 Programming Instructions

Programme Button used to select the clock time and the 6 ON/OFF programme times and to review Output Status Easy view 24 showing unit either ON or OFF

This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 mins, and apply reset - see 1 before programming

Programming This is a seven day (weekly) timeswitch which has six programmes, each of which can be block programmed to work on all of the five weekdays, both weekend day

or all 7seven days (24 hour operation). Programmes can also be designated to

Only two setting buttons are required. Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours, minutes and days. The Program button is only used when setting or adjusting the clock time and day or the 6 programmed ON/OFF times and days, although it can also be used to review the ON/OFF times and days one they have been set. Each time the Program button is pressed the display will flash either the days, hours or minutes in turn, starting with the clock then the first ON time and day(s), first OFF time, second ON time and day(s) etc. Wherever the days, hours or minutes are flashing they may be set using the Change button. Once

Normal Operating Mode In normal operation the PanelMaster will display the correct day and its time with the colon flashing. The output status will be shown by either ON or OFF on the display.

To Reset Display

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank Release buttons and display wil fill with its complete range of characters and then clear -0:00

1234567

to show clock and day 1 symbol flashing You are now in the clock setting mode 1234567

at the beginning of the programme sequence

Programming sequence

····→ Programme 4 ON Programme 1 ON Programme 4 OFF Programme 1 OFF Programme 5 ON Programme 5 OFF Programme 2 ON Programme 2 OFF Programme 6 ON Programme 3 ON Programme 6 OFF Programme 3 OFF • Operating Mode

Note: Button pauses greater than 1 minute during programming will result in automatic return to the operating mode.

Setting Clock (after reset) Day Setting - Press < Change > button to advance to the day required.

Day 1 = Monday and Day 7 = Sunday. Hour Setting - Press the < Program > button once to

select the hour - display shows clock symbol and

Press the <Change> button to advance the hour setting. Note: For rapid hour selections press

and hold down < Change> button. 46*00* Minute Setting - Press the <Program> button once to select the minutes - display shows with clock symbol 1234567 and minute digits flashing. Press the <Change> button to advance the minutes setting. Note: For rapid minute selection press and hold down <Change>

button. (Note: 16 hrs shown as example of hrs set) ----Press < Program > button once - clock is now set and display shows ready for the first ON programme time.

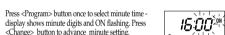
. To Set Programme ON/OFF Times (after clock setting)

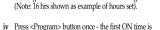
Programme 1 ON time

Press < Change > button to advance the day flag to the required day(s) settings

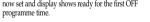


Once day ontion selected press < Program> button once to select hour time - display shows hour digits and ON flashing. Press <Change> button to advance hour setting. (Note: Monday shown as an example of days set).





now set and display shows ready for the first OFF



- Now set the hrs and minutes as before
- The day(s) selected remains the same. Repeat steps i to v to set the remainder of the 5 ON/OFF times as required. Note:

After this the unit will operate normally to the programmes set.

Any unused ON/OFF programme should be skipped until the display shows normal operating mode. Do not programme '0's into unused programmes.

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Use the Change button to switch unit ON.

4. Programme Review To fast review the set programmes or for quick exit to normal operating mode -

press and hold the <Program> button.

5. Initiating Programme Mode

This can be initiated any time during the normal operating mode. Press <Program> button and the Clock symbol, day flag, hrs ance inutes symbols on the display will flash - this is review mode. If any change to programmes is required press <Change> button to initiate programme mode and then follow

6. Cancelling Programmes

Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON or OFF programme to be cancelled press the <Change> button until the hour digits show --:

To change the output status from ON to OFF or vice versa during normal operation

press the <Change> button. The output status will change and indicate override is in

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1234567

then press the <Program> button to clear the programme. The display will show the hour and minute digits and ON or OFF flashing (Note: Monday shown as an example of days set).





_ _ _ _ _ _

1234567





1234567

PanelMASTER

DAY 1 2 3 4

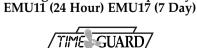
ON OFF TIMED

Timer Modules

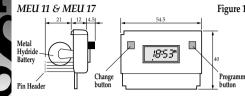
Without Housing MEU11 (24 Hour) MEU17 (7 Day)

*18:53***

With Housing (Giving Panel Mount Čapability)

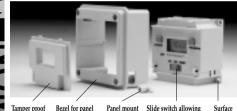






Engineering drawing can be supplied on request

EMU 11 & EMU 17



OFF or programmed

- EMU11 (24 hour) or EMU17 (7 day)
- Panel mount bezel
- Tamper proof cover
- Surface mount stand offs (length 10mm)
- Panel mount holts
- Self-tapping screws (No. 4 x 5/8 in) for panel mount bolts Self-tapping screws (No.6 x 3/8 in) for attaching bezel to EMU11/17

Use No. 6 x 3/8in selftapping screws to fully secure bezel to EMU11/ (fixed from rear)



Installation - Panel Mounting

For panel mounting (in panels up to 7.0mm thick with the cut-out as shown in figure 2) the EMU11/17 should be snapped into the bezel supplied and secured in place by the use of the 2 No. 6 x 3/8in self-tapping screws provided as When selecting a position for the unit it should be

born in mind that a clearance behind the front panel surface of 26.0mm is required over the full area of the panel cut-out. The unit is designed to be mounted from the front

- of the panel by the following procedure: a. Insert the 2 bolts provided in the locations
- shown in figure 4 Then insert the 2 No. 4 x 5/8 in self-tapping screws into the bolts and engage thread.
- c. Make connections to the unit by wires terminated in a Molex 4 way 7720 or similar connector from behind the panel.
- Insert the EMU11/17 complete with bezel into the panel and tighten up the 2 No. 4 selftapping screws. The ears on the bolts will rotate under the tightening action to clamp the unit to the panel.

mains terminations.

Surface Mounting The EMU11/17 without bezel can be surface mounted using the 4 securing holes as shown in figure 5. The unit can be stood off from the mounting surface by 10mm using the 4 spacers if required. Screws are not provided and it must be remembered that if used in this way the EMU11/17 must be installed within a

housing or cubicle to prevent access to the

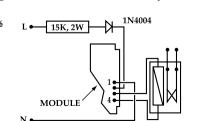


2. Specifications MEU11 & EMU11

- 4 ON/OFF programmes
- Easy 2 button programming
- Change/Override until next programme
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external diode, resistor and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button the hours and minutes which flash. Time of day is set first and is updated during the programming period. Programmes 1 to 4 follow. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Single Resistor PSU (MEU11 & MEU17 only)

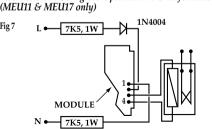


MEU17 & EMU17

- 6 ON/OFF programmes, daily, weekly, weekend or weekday options
- Fasy 2 button programming Change/Override until next programme
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external resistor, diode and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button then updates the item selected. Day/days of week is first to be programmed followed by hours and minutes. The 6 ON/OFF programmes then follow, each in the sequence day/days, hours and minutes. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Two Resistor PSU - gives Optimum EMC Performance



All Tupes

Connections

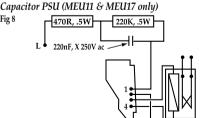
Pin 2: Positive battery charge plus relay current. Min 0.50 mA (No relay). Pin 3: Relay connection

Pin 4: Output & relay connection. NPN open connector. Max 10 mA, 47 V A Molex 7720 4 way connector or similar is recommended

MEU11 and MEU17 - Typical Usage

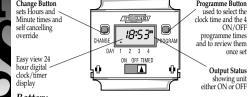
The examples in figs 6. 7 and 8 show the module driving a Shrack 48V relay with power derived from the mains. Type RP330048 or RP331048 (Changeover contracts). In these configurations the relay pulls in at 47V and is held at above 24V with mains voltages down to 200V.

EMU11 and EMU17 - Typical Usage In this case the circuit in fig 6 can be used with a 10K, 3W resistor in place of the 15K 2W resistor shown and a 1 3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 7 can be used with two 5K1, 1.5W resistors in place of the 7K5, 1W resistors shown and a 1.3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 8 can be used with a 330nF, X 250V ac capacitor instead of the 220nf capacitor shown and a .3W zener must be connected between pins 1 and 2 of the module. In all cases the zener is 47V and its cathode is connected to module pin 2.



N ← 470R, .5W It is possible to operate these modules from other voltages. Please contact Technical Service on 020 8450 0515 for advice.

3. EMU11 & MEU11 Programming Instructions Programme Button



This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 minutes, and apply reset - see 1 before programming.

Only two setting buttons are required. Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours and minutes. The Program button is only used when setting or adjusting the clock time or the 4 programmed ON/OFF times, although it can also be used to review the ON/OFF times once they have been set. Each time the Program button is pressed the display will flash either the hours or minutes in turn, starting with the clock then the first ON time, first OFF time, second ON time etc. Wherever the hours or minutes are flashing they may be set using the Change button. Once set the Program button is

pressed again to proceed to the next stage.

Normal Overating Mode In normal operation the PanelMaster will display the correct time with the colon flashing. The output

status will be shown by either ON or OFF on the display.

To Reset Display

18:35

&**:**000

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank. Release buttons and display will fill with its complete

range of characters and then clear to show clock and

You are now in the clock setting mode at the beginning of the programme sequence

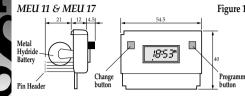
HELPLINE 020-8450-8944



For a product brochure please contact:

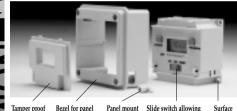
Timeguard Ltd.

Victory Park, 400 Edgware Road, London NW2 6ND Tel: 020 8452 1112 or email csc@timeguard.com



Engineering drawing can be supplied on request

EMU 11 & EMU 17



OFF or programmed

- EMU11 (24 hour) or EMU17 (7 day)
- Panel mount bezel
- Tamper proof cover
- Surface mount stand offs (length 10mm)
- Panel mount holts
- Self-tapping screws (No. 4 x 5/8 in) for panel mount bolts Self-tapping screws (No.6 x 3/8 in) for attaching bezel to EMU11/17

Use No. 6 x 3/8in selftapping screws to fully secure bezel to EMU11/ (fixed from rear)



Installation - Panel Mounting

For panel mounting (in panels up to 7.0mm thick with the cut-out as shown in figure 2) the EMU11/17 should be snapped into the bezel supplied and secured in place by the use of the 2 No. 6 x 3/8in self-tapping screws provided as When selecting a position for the unit it should be

born in mind that a clearance behind the front panel surface of 26.0mm is required over the full area of the panel cut-out. The unit is designed to be mounted from the front

- of the panel by the following procedure: a. Insert the 2 bolts provided in the locations
- shown in figure 4 Then insert the 2 No. 4 x 5/8 in self-tapping screws into the bolts and engage thread.
- c. Make connections to the unit by wires terminated in a Molex 4 way 7720 or similar connector from behind the panel.
- Insert the EMU11/17 complete with bezel into the panel and tighten up the 2 No. 4 selftapping screws. The ears on the bolts will rotate under the tightening action to clamp the unit to the panel.

mains terminations.

Surface Mounting The EMU11/17 without bezel can be surface mounted using the 4 securing holes as shown in figure 5. The unit can be stood off from the mounting surface by 10mm using the 4 spacers if required. Screws are not provided and it must be remembered that if used in this way the EMU11/17 must be installed within a

housing or cubicle to prevent access to the

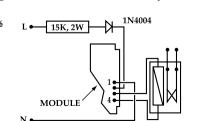


2. Specifications MEU11 & EMU11

- 4 ON/OFF programmes
- Easy 2 button programming
- Change/Override until next programme
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external diode, resistor and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button the hours and minutes which flash. Time of day is set first and is updated during the programming period. Programmes 1 to 4 follow. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Single Resistor PSU (MEU11 & MEU17 only)

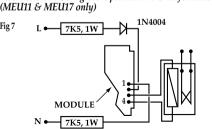


MEU17 & EMU17

- 6 ON/OFF programmes, daily, weekly, weekend or weekday options
- Fasy 2 button programming Change/Override until next programme
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external resistor, diode and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button then updates the item selected. Day/days of week is first to be programmed followed by hours and minutes. The 6 ON/OFF programmes then follow, each in the sequence day/days, hours and minutes. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Two Resistor PSU - gives Optimum EMC Performance



All Tupes

Connections

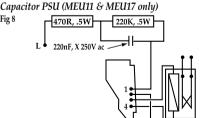
Pin 2: Positive battery charge plus relay current. Min 0.50 mA (No relay). Pin 3: Relay connection

Pin 4: Output & relay connection. NPN open connector. Max 10 mA, 47 V A Molex 7720 4 way connector or similar is recommended

MEU11 and MEU17 - Typical Usage

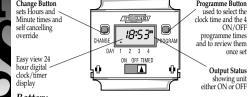
The examples in figs 6. 7 and 8 show the module driving a Shrack 48V relay with power derived from the mains. Type RP330048 or RP331048 (Changeover contracts). In these configurations the relay pulls in at 47V and is held at above 24V with mains voltages down to 200V.

EMU11 and EMU17 - Typical Usage In this case the circuit in fig 6 can be used with a 10K, 3W resistor in place of the 15K 2W resistor shown and a 1 3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 7 can be used with two 5K1, 1.5W resistors in place of the 7K5, 1W resistors shown and a 1.3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 8 can be used with a 330nF, X 250V ac capacitor instead of the 220nf capacitor shown and a .3W zener must be connected between pins 1 and 2 of the module. In all cases the zener is 47V and its cathode is connected to module pin 2.



N ← 470R, .5W It is possible to operate these modules from other voltages. Please contact Technical Service on 020 8450 0515 for advice.

3. EMU11 & MEU11 Programming Instructions Programme Button



This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 minutes, and apply reset - see 1 before programming.

Only two setting buttons are required. Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours and minutes. The Program button is only used when setting or adjusting the clock time or the 4 programmed ON/OFF times, although it can also be used to review the ON/OFF times once they have been set. Each time the Program button is pressed the display will flash either the hours or minutes in turn, starting with the clock then the first ON time, first OFF time, second ON time etc. Wherever the hours or minutes are flashing they may be set using the Change button. Once set the Program button is

pressed again to proceed to the next stage.

Normal Overating Mode In normal operation the PanelMaster will display the correct time with the colon flashing. The output

status will be shown by either ON or OFF on the display.

To Reset Display

18:35

&**:**000

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank. Release buttons and display will fill with its complete

range of characters and then clear to show clock and

You are now in the clock setting mode at the beginning of the programme sequence

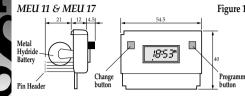
HELPLINE 020-8450-8944



For a product brochure please contact:

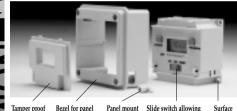
Timeguard Ltd.

Victory Park, 400 Edgware Road, London NW2 6ND Tel: 020 8452 1112 or email csc@timeguard.com



Engineering drawing can be supplied on request

EMU 11 & EMU 17



OFF or programmed

- EMU11 (24 hour) or EMU17 (7 day)
- Panel mount bezel
- Tamper proof cover
- Surface mount stand offs (length 10mm)
- Panel mount holts
- Self-tapping screws (No. 4 x 5/8 in) for panel mount bolts Self-tapping screws (No.6 x 3/8 in) for attaching bezel to EMU11/17

Use No. 6 x 3/8in selftapping screws to fully secure bezel to EMU11/ (fixed from rear)



Installation - Panel Mounting

For panel mounting (in panels up to 7.0mm thick with the cut-out as shown in figure 2) the EMU11/17 should be snapped into the bezel supplied and secured in place by the use of the 2 No. 6 x 3/8in self-tapping screws provided as When selecting a position for the unit it should be

born in mind that a clearance behind the front panel surface of 26.0mm is required over the full area of the panel cut-out. The unit is designed to be mounted from the front

- of the panel by the following procedure: a. Insert the 2 bolts provided in the locations
- shown in figure 4 Then insert the 2 No. 4 x 5/8 in self-tapping screws into the bolts and engage thread.
- c. Make connections to the unit by wires terminated in a Molex 4 way 7720 or similar connector from behind the panel.
- Insert the EMU11/17 complete with bezel into the panel and tighten up the 2 No. 4 selftapping screws. The ears on the bolts will rotate under the tightening action to clamp the unit to the panel.

mains terminations.

Surface Mounting The EMU11/17 without bezel can be surface mounted using the 4 securing holes as shown in figure 5. The unit can be stood off from the mounting surface by 10mm using the 4 spacers if required. Screws are not provided and it must be remembered that if used in this way the EMU11/17 must be installed within a

housing or cubicle to prevent access to the

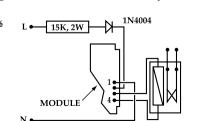


2. Specifications MEU11 & EMU11

- 4 ON/OFF programmes
- Easy 2 button programming
- Change/Override until next programme
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external diode, resistor and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button the hours and minutes which flash. Time of day is set first and is updated during the programming period. Programmes 1 to 4 follow. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Single Resistor PSU (MEU11 & MEU17 only)

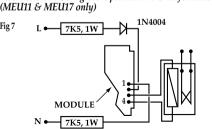


MEU17 & EMU17

- 6 ON/OFF programmes, daily, weekly, weekend or weekday options
- Fasy 2 button programming Change/Override until next programme
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external resistor, diode and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button then updates the item selected. Day/days of week is first to be programmed followed by hours and minutes. The 6 ON/OFF programmes then follow, each in the sequence day/days, hours and minutes. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Two Resistor PSU - gives Optimum EMC Performance



All Tupes

Connections

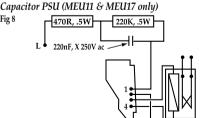
Pin 2: Positive battery charge plus relay current. Min 0.50 mA (No relay). Pin 3: Relay connection

Pin 4: Output & relay connection. NPN open connector. Max 10 mA, 47 V A Molex 7720 4 way connector or similar is recommended

MEU11 and MEU17 - Typical Usage

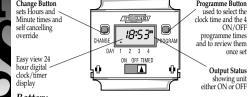
The examples in figs 6. 7 and 8 show the module driving a Shrack 48V relay with power derived from the mains. Type RP330048 or RP331048 (Changeover contracts). In these configurations the relay pulls in at 47V and is held at above 24V with mains voltages down to 200V.

EMU11 and EMU17 - Typical Usage In this case the circuit in fig 6 can be used with a 10K, 3W resistor in place of the 15K 2W resistor shown and a 1 3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 7 can be used with two 5K1, 1.5W resistors in place of the 7K5, 1W resistors shown and a 1.3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 8 can be used with a 330nF, X 250V ac capacitor instead of the 220nf capacitor shown and a .3W zener must be connected between pins 1 and 2 of the module. In all cases the zener is 47V and its cathode is connected to module pin 2.



N ← 470R, .5W It is possible to operate these modules from other voltages. Please contact Technical Service on 020 8450 0515 for advice.

3. EMU11 & MEU11 Programming Instructions Programme Button



This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 minutes, and apply reset - see 1 before programming.

Only two setting buttons are required. Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours and minutes. The Program button is only used when setting or adjusting the clock time or the 4 programmed ON/OFF times, although it can also be used to review the ON/OFF times once they have been set. Each time the Program button is pressed the display will flash either the hours or minutes in turn, starting with the clock then the first ON time, first OFF time, second ON time etc. Wherever the hours or minutes are flashing they may be set using the Change button. Once set the Program button is

pressed again to proceed to the next stage.

Normal Overating Mode In normal operation the PanelMaster will display the correct time with the colon flashing. The output

status will be shown by either ON or OFF on the display.

To Reset Display

18:35

&**:**000

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank. Release buttons and display will fill with its complete

range of characters and then clear to show clock and

You are now in the clock setting mode at the beginning of the programme sequence

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For a product brochure please contact:

Timeguard Ltd.

Victory Park, 400 Edgware Road, London NW2 6ND Tel: 020 8452 1112 or email csc@timeguard.com

Programming sequence

····→ Programme 3 Of Programme 3 OFF Programme 1 ON Programme 1 OFF Programme 4 ON Programme 2 ON Programme 4 OFF

Note: Button pauses greater than 1 minute during programming will result in automatic return to the operating mode.

Setting Clock (after reset)

Hour Setting - Press the <Change> button to advance the hour setting. Note: For rapid hour selections press and hold down < Change > button.

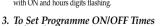


Minute Setting - Press the <Program> button once to select the minutes - display shows clock symbol and minute digits flashing. Press the <Change> button to advance the minutes setting. Note: For rapid minute selection press and hold down < Change> button, (Note: 16 hrs shown as example of hrs set)



1 2 3 4

Press < Program > button once - clock is now set and display shows ready for the first ON programme time with ON and hours digits flashing.



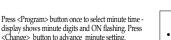
(after clock setting)

Programme 1 ON time

Press <Change> button to advance the hour setting.

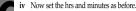


(Note: 16 hrs shown as example of hours set).



Press < Program > button once - the first ON time is now set and display shows ready for the first OFF -----

1 2 3 4



programme time.

Repeat steps i to iv to set the remainder of the 3 ON/OFF times as required. Note: Any unused ON/OFF programme should be skipped until the display shows normal operating mode. Do not programme '0's into unused

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Use the Change button to switch unit ON. After this the unit will operate normally to the programmes set.

Programme Review

To fast review the set programmes or for quick exit to normal operating mode press and hold the <Program> button.

Initiating Programme Mode This can be initiated any time during the normal operating mode, Press <Program> button and the Clock symbol, hrs and minutes symbols on the display will flash - this is review mode. If any change to programmes is required press <Change> button to initiate programme mode and then follow

6. Cancelling Programmes Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON or OFF programme to be cancelled press

the <Change> button until the hour digits show --: then press the <Program> button to clear the programme. The display will show the hour



1 2 3 4

and minute digits and ON or OFF flashing.

Self Cancelling Override To change the output status from ON to OFF or vice versa during normal operation press the <Change> button. The output status will change and indicate override is in set the Program button is pressed again to proceed to the next stage.

1234567

4. EMU17 & MEU17 Programming Instructions

Programme Button used to select the clock time and the 6 ON/OFF programme times and to review Output Status Easy view 24 showing unit either ON or OFF

This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 mins, and apply reset - see 1 before programming

Programming This is a seven day (weekly) timeswitch which has six programmes, each of which can be block programmed to work on all of the five weekdays, both weekend day

or all 7seven days (24 hour operation). Programmes can also be designated to

Only two setting buttons are required. Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours, minutes and days. The Program button is only used when setting or adjusting the clock time and day or the 6 programmed ON/OFF times and days, although it can also be used to review the ON/OFF times and days one they have been set. Each time the Program button is pressed the display will flash either the days, hours or minutes in turn, starting with the clock then the first ON time and day(s), first OFF time, second ON time and day(s) etc. Wherever the days, hours or minutes are flashing they may be set using the Change button. Once

Normal Operating Mode In normal operation the PanelMaster will display the correct day and its time with the colon flashing. The output status will be shown by either ON or OFF on the display.

To Reset Display

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank Release buttons and display wil fill with its complete range of characters and then clear -0:00

1234567

to show clock and day 1 symbol flashing You are now in the clock setting mode 1234567

at the beginning of the programme sequence

Programming sequence

····→ Programme 4 ON Programme 1 ON Programme 4 OFF Programme 1 OFF Programme 5 ON Programme 5 OFF Programme 2 ON Programme 2 OFF Programme 6 ON Programme 3 ON Programme 6 OFF Programme 3 OFF • Operating Mode

Note: Button pauses greater than 1 minute during programming will result in automatic return to the operating mode.

Setting Clock (after reset) Day Setting - Press < Change > button to advance to the day required.

Day 1 = Monday and Day 7 = Sunday. Hour Setting - Press the < Program > button once to

select the hour - display shows clock symbol and

Press the <Change> button to advance the hour setting. Note: For rapid hour selections press

and hold down < Change> button. 46*00* Minute Setting - Press the <Program> button once to select the minutes - display shows with clock symbol 1234567 and minute digits flashing. Press the <Change> button to advance the minutes setting. Note: For rapid minute selection press and hold down < Change>

button. (Note: 16 hrs shown as example of hrs set) ----Press < Program > button once - clock is now set and display shows ready for the first ON programme time.

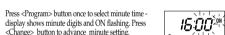
. To Set Programme ON/OFF Times (after clock setting)

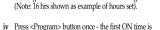
Programme 1 ON time

Press < Change > button to advance the day flag to the required day(s) settings

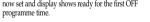


Once day ontion selected press < Program> button once to select hour time - display shows hour digits and ON flashing. Press <Change> button to advance hour setting. (Note: Monday shown as an example of days set).





now set and display shows ready for the first OFF



- Now set the hrs and minutes as before
- The day(s) selected remains the same. Repeat steps i to v to set the remainder of the 5 ON/OFF times as required. Note:

After this the unit will operate normally to the programmes set.

Any unused ON/OFF programme should be skipped until the display shows normal operating mode. Do not programme '0's into unused programmes.

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Use the Change button to switch unit ON.

4. Programme Review To fast review the set programmes or for quick exit to normal operating mode -

press and hold the <Program> button.

5. Initiating Programme Mode

This can be initiated any time during the normal operating mode. Press <Program> button and the Clock symbol, day flag, hrs ance inutes symbols on the display will flash - this is review mode. If any change to programmes is required press <Change> button to initiate programme mode and then follow

6. Cancelling Programmes

Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON or OFF programme to be cancelled press the <Change> button until the hour digits show --:

To change the output status from ON to OFF or vice versa during normal operation

press the <Change> button. The output status will change and indicate override is in

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1234567

then press the <Program> button to clear the programme. The display will show the hour and minute digits and ON or OFF flashing (Note: Monday shown as an example of days set).





_ _ _ _ _ _

1234567





1234567

PanelMASTER

DAY 1 2 3 4

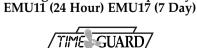
ON OFF TIMED

Timer Modules

Without Housing MEU11 (24 Hour) MEU17 (7 Day)

*18:53***

With Housing (Giving Panel Mount Čapability)





Programming sequence

····→ Programme 3 Of Programme 3 OFF Programme 1 ON Programme 1 OFF Programme 4 ON Programme 2 ON Programme 4 OFF

Note: Button pauses greater than 1 minute during programming will result in automatic return to the operating mode.

Setting Clock (after reset)

Hour Setting - Press the <Change> button to advance the hour setting. Note: For rapid hour selections press and hold down < Change > button.

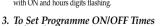


Minute Setting - Press the <Program> button once to select the minutes - display shows clock symbol and minute digits flashing. Press the <Change> button to advance the minutes setting. Note: For rapid minute selection press and hold down < Change> button, (Note: 16 hrs shown as example of hrs set)



1 2 3 4

Press < Program > button once - clock is now set and display shows ready for the first ON programme time with ON and hours digits flashing.



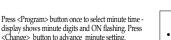
(after clock setting)

Programme 1 ON time

Press <Change> button to advance the hour setting.

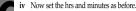


(Note: 16 hrs shown as example of hours set).



Press < Program > button once - the first ON time is now set and display shows ready for the first OFF -----

1 2 3 4



programme time.

Repeat steps i to iv to set the remainder of the 3 ON/OFF times as required. Note: Any unused ON/OFF programme should be skipped until the display shows normal operating mode. Do not programme '0's into unused

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Use the Change button to switch unit ON. After this the unit will operate normally to the programmes set.

Programme Review

To fast review the set programmes or for quick exit to normal operating mode press and hold the <Program> button.

Initiating Programme Mode This can be initiated any time during the normal operating mode, Press <Program> button and the Clock symbol, hrs and minutes symbols on the display will flash - this is review mode. If any change to programmes is required press <Change> button to initiate programme mode and then follow

6. Cancelling Programmes Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON or OFF programme to be cancelled press

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1 2 3 4

and minute digits and ON or OFF flashing.

Self Cancelling Override To change the output status from ON to OFF or vice versa during normal operation press the <Change> button. The output status will change and indicate override is in set the Program button is pressed again to proceed to the next stage.

1234567

4. EMU17 & MEU17 Programming Instructions

Programme Button used to select the clock time and the 6 ON/OFF programme times and to review Output Status Easy view 24 showing unit either ON or OFF

This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 mins, and apply reset - see 1 before programming

Programming This is a seven day (weekly) timeswitch which has six programmes, each of which can be block programmed to work on all of the five weekdays, both weekend day

or all 7seven days (24 hour operation). Programmes can also be designated to

Only two setting buttons are required. Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours, minutes and days. The Program button is only used when setting or adjusting the clock time and day or the 6 programmed ON/OFF times and days, although it can also be used to review the ON/OFF times and days one they have been set. Each time the Program button is pressed the display will flash either the days, hours or minutes in turn, starting with the clock then the first ON time and day(s), first OFF time, second ON time and day(s) etc. Wherever the days, hours or minutes are flashing they may be set using the Change button. Once

Normal Operating Mode In normal operation the PanelMaster will display the correct day and its time with the colon flashing. The output status will be shown by either ON or OFF on the display.

To Reset Display

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank Release buttons and display wil fill with its complete range of characters and then clear -0:00

1234567

to show clock and day 1 symbol flashing You are now in the clock setting mode 1234567

at the beginning of the programme sequence

Programming sequence

····→ Programme 4 ON Programme 1 ON Programme 4 OFF Programme 1 OFF Programme 5 ON Programme 5 OFF Programme 2 ON Programme 2 OFF Programme 6 ON Programme 3 ON Programme 6 OFF Programme 3 OFF • Operating Mode

Note: Button pauses greater than 1 minute during programming will result in automatic return to the operating mode.

Setting Clock (after reset) Day Setting - Press < Change > button to advance to the day required.

Day 1 = Monday and Day 7 = Sunday. Hour Setting - Press the < Program > button once to

select the hour - display shows clock symbol and

Press the <Change> button to advance the hour setting. Note: For rapid hour selections press

and hold down < Change> button. 46*00* Minute Setting - Press the <Program> button once to select the minutes - display shows with clock symbol 1234567 and minute digits flashing. Press the <Change> button to advance the minutes setting. Note: For rapid minute selection press and hold down < Change>

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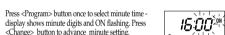
. To Set Programme ON/OFF Times (after clock setting)

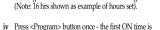
Programme 1 ON time

Press < Change > button to advance the day flag to the required day(s) settings

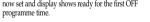


Once day ontion selected press < Program> button once to select hour time - display shows hour digits and ON flashing. Press <Change> button to advance hour setting. (Note: Monday shown as an example of days set).





now set and display shows ready for the first OFF



- Now set the hrs and minutes as before
- The day(s) selected remains the same. Repeat steps i to v to set the remainder of the 5 ON/OFF times as required. Note:

After this the unit will operate normally to the programmes set.

Any unused ON/OFF programme should be skipped until the display shows normal operating mode. Do not programme '0's into unused programmes.

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Use the Change button to switch unit ON.

4. Programme Review To fast review the set programmes or for quick exit to normal operating mode -

press and hold the <Program> button.

5. Initiating Programme Mode

This can be initiated any time during the normal operating mode. Press <Program> button and the Clock symbol, day flag, hrs ance inutes symbols on the display will flash - this is review mode. If any change to programmes is required press <Change> button to initiate programme mode and then follow

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Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON or OFF programme to be cancelled press the <Change> button until the hour digits show --:

To change the output status from ON to OFF or vice versa during normal operation

press the <Change> button. The output status will change and indicate override is in

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then press the <Program> button to clear the programme. The display will show the hour and minute digits and ON or OFF flashing (Note: Monday shown as an example of days set).





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1234567





1234567

PanelMASTER

DAY 1 2 3 4

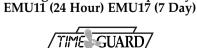
ON OFF TIMED

Timer Modules

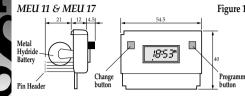
Without Housing MEU11 (24 Hour) MEU17 (7 Day)

*18:53***

With Housing (Giving Panel Mount Čapability)

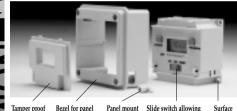






Engineering drawing can be supplied on request

EMU 11 & EMU 17



OFF or programmed

- EMU11 (24 hour) or EMU17 (7 day)
- Panel mount bezel
- Tamper proof cover
- Surface mount stand offs (length 10mm)
- Panel mount holts
- Self-tapping screws (No. 4 x 5/8 in) for panel mount bolts Self-tapping screws (No.6 x 3/8 in) for attaching bezel to EMU11/17

Use No. 6 x 3/8in selftapping screws to fully secure bezel to EMU11/ (fixed from rear)



Installation - Panel Mounting

For panel mounting (in panels up to 7.0mm thick with the cut-out as shown in figure 2) the EMU11/17 should be snapped into the bezel supplied and secured in place by the use of the 2 No. 6 x 3/8in self-tapping screws provided as When selecting a position for the unit it should be

born in mind that a clearance behind the front panel surface of 26.0mm is required over the full area of the panel cut-out. The unit is designed to be mounted from the front

- of the panel by the following procedure: a. Insert the 2 bolts provided in the locations
- shown in figure 4 Then insert the 2 No. 4 x 5/8 in self-tapping screws into the bolts and engage thread.
- c. Make connections to the unit by wires terminated in a Molex 4 way 7720 or similar connector from behind the panel.
- Insert the EMU11/17 complete with bezel into the panel and tighten up the 2 No. 4 selftapping screws. The ears on the bolts will rotate under the tightening action to clamp the unit to the panel.

mains terminations.

Surface Mounting The EMU11/17 without bezel can be surface mounted using the 4 securing holes as shown in figure 5. The unit can be stood off from the mounting surface by 10mm using the 4 spacers if required. Screws are not provided and it must be remembered that if used in this way the EMU11/17 must be installed within a

housing or cubicle to prevent access to the

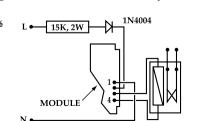


2. Specifications MEU11 & EMU11

- 4 ON/OFF programmes
- Easy 2 button programming
- Change/Override until next programme
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external diode, resistor and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button the hours and minutes which flash. Time of day is set first and is updated during the programming period. Programmes 1 to 4 follow. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Single Resistor PSU (MEU11 & MEU17 only)

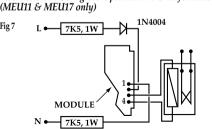


MEU17 & EMU17

- 6 ON/OFF programmes, daily, weekly, weekend or weekday options
- Fasy 2 button programming Change/Override until next programme.
- Rechargeable Metal Hydride battery back-up with 1000 hours reserve Requires only an external resistor, diode and relay to switch mains
- Temperature range 0° to 55°C

The programme button advances programme steps and the change button then updates the item selected. Day/days of week is first to be programmed followed by hours and minutes. The 6 ON/OFF programmes then follow, each in the sequence day/days, hours and minutes. If, during programming, no button is pressed over a period of one minute then the display will revert to normal operation. In normal operation, pressing the change button changes the output until the next programme step.

Two Resistor PSU - gives Optimum EMC Performance



All Tupes

Connections

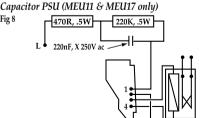
Pin 2: Positive battery charge plus relay current. Min 0.50 mA (No relay). Pin 3: Relay connection

Pin 4: Output & relay connection. NPN open connector. Max 10 mA, 47 V A Molex 7720 4 way connector or similar is recommended

MEU11 and MEU17 - Typical Usage

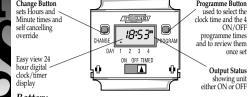
The examples in figs 6. 7 and 8 show the module driving a Shrack 48V relay with power derived from the mains. Type RP330048 or RP331048 (Changeover contracts). In these configurations the relay pulls in at 47V and is held at above 24V with mains voltages down to 200V.

EMU11 and EMU17 - Typical Usage In this case the circuit in fig 6 can be used with a 10K, 3W resistor in place of the 15K 2W resistor shown and a 1 3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 7 can be used with two 5K1, 1.5W resistors in place of the 7K5, 1W resistors shown and a 1.3W zener must be connected between pins 1 and 2 of the module. The circuit in fig 8 can be used with a 330nF, X 250V ac capacitor instead of the 220nf capacitor shown and a .3W zener must be connected between pins 1 and 2 of the module. In all cases the zener is 47V and its cathode is connected to module pin 2.



N ← 470R, .5W It is possible to operate these modules from other voltages. Please contact Technical Service on 020 8450 0515 for advice.

3. EMU11 & MEU11 Programming Instructions Programme Button



This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 minutes, and apply reset - see 1 before programming.

Only two setting buttons are required. Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours and minutes. The Program button is only used when setting or adjusting the clock time or the 4 programmed ON/OFF times, although it can also be used to review the ON/OFF times once they have been set. Each time the Program button is pressed the display will flash either the hours or minutes in turn, starting with the clock then the first ON time, first OFF time, second ON time etc. Wherever the hours or minutes are flashing they may be set using the Change button. Once set the Program button is

pressed again to proceed to the next stage.

Normal Overating Mode In normal operation the PanelMaster will display the correct time with the colon flashing. The output

status will be shown by either ON or OFF on the display.

To Reset Display

18:35

&**:**000

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank. Release buttons and display will fill with its complete

range of characters and then clear to show clock and

You are now in the clock setting mode at the beginning of the programme sequence

HELPLINE 020-8450-8944



For a product brochure please contact:

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Victory Park, 400 Edgware Road, London NW2 6ND Tel: 020 8452 1112 or email csc@timeguard.com

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