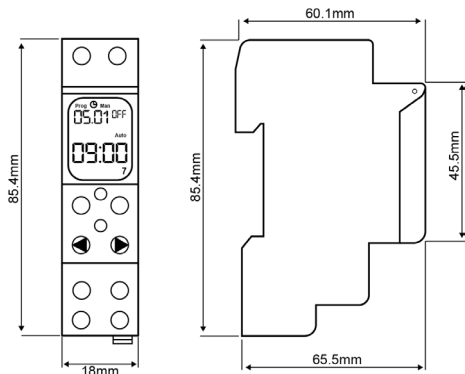# TME116 Weekly Programmable Timer

Features

- LCD Display
- 18mm Module Width
- 35mm DIN Rail Mount
- 16 ON/OFF Programs
- 10 ON/OFF Holiday Programs
- 32 Pulse Outputs with Countdown
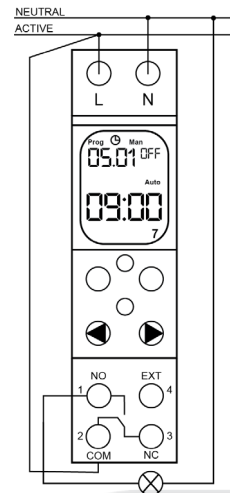- Lithium Backup Battery

Specifications

- 240V AC
- Accuracy: ≤+/- 2 sec/day (20°C)
- Pulse Output: 1 sec - 99 secs
- Count Down: 1 sec - 99 mins 59 secs
- Power Consumption: 3VA
- Weight: 90g
- Mechanical Life: 100,000 Cycles
- Contact Type: Normally Open + 1 Changeover Contact
- Load Rating:
  - i. Resistive Loads 240V AC 16A
  - ii. Capacitive/Inductive: cos φ = 0.4 240V AC 4A
  - iii. Lamp: 1000W
  - iv. Battery: CR2032
  - v. Ambient Working Temp: -10~+50 °C
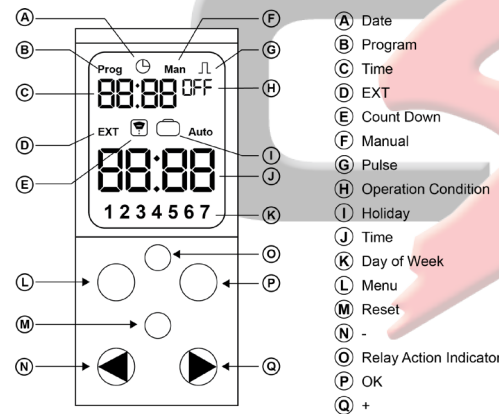 - vi. Ambient Working Humidity: 35~85%

Dimensions

60.1mm
85.4mm
18mm
85.4mm
65.5mm
45.5mm

Wiring Diagram

NEUTRAL
ACTIVE
L N
Prog Man
05.01 OFF
Auto
09:00
7
NO EXT
1 4
2 3
COM NC

Diagram

Prog Man
88:88 OFF
EXT Auto
88:88
1 2 3 4 5 6 7

Ⓐ	Date
Ⓑ	Program
Ⓒ	Time
Ⓓ	EXT
Ⓔ	Count Down
Ⓕ	Manual
Ⓖ	Pulse
Ⓗ	Operation Condition
Ⓘ	Holiday
Ⓙ	Time
Ⓚ	Day of Week
Ⓛ	Menu
Ⓜ	Reset
Ⓝ	-
Ⓞ	Relay Action Indicator
Ⓟ	OK
Ⓠ	+

Timer Function Modes

The TME116 has 1 of 3 modes available:

1. Day of the Week Programs - up to 16 ON and 16 OFF times can be programmed for each day of the week.

2. Countdown Timer - The TME116 can function as a countdown timer which is activated directly on the device or by wiring a momentary press mechanism into the EXT terminal to control from a separate switch location. This feature cannot be programmed to trigger at a set time.

3. Pulse Timer Function - Up to 32 different ON times can be programmed for each day of the week with a time out countdown function up to 99 seconds.

Note: If a different mode selection is made after initially being set, the device needs to be reset to select another mode.

EXT Port

For the Countdown and Pulse Timer function, the TME116 has the flexibility of being activated at a separate switched location by wiring a mechanism into the EXT Port of the device. Please note, the additional switching circuit should not exceed 100m and the switch itself should be a momentary switch contact (M16BP).

ON AUTO/OFF AUTO/ON/OFF

The relay function can be changed from its default ON AUTO to OFF AUTO, depending on the required action when the programmed time is reached, or set to permanently ON or permanently OFF.

Holiday Mode Function

The TME116 can be programmed to activate up to 10 ON and 10 OFF Holiday programs by setting an ON and OFF date. When the Holiday Mode timers are set, the TME116 device will not operate during a programmed Holiday Time.

Programming Instructions

Initial Programming

Note: On the initial connection of power, the LCD screen display may not be active. In this case, press the reset button once and the LED screen will power up.

1. Setting the Date and Time

1.1. Press the 'Menu' button and the 'Prog' icon will flash. Select 'OK'.

1.2. Press the 'Menu' button, then use the < or > arrow to toggle left or right until the 'clock' icon is flashing and press 'OK'. The year will start flashing.

1.3. Use the < or > arrow to select a year and press 'OK'.

1.4. Use the < or > arrow to select month and press 'OK'.

1.5. Use the < or > arrow to select day and press 'OK'. You will notice the day of the week also changes as the date changes, the first day of the week being Monday.

1.6. Use the < or > arrow to select hour of day in 24 hour format and press 'OK'.

1.7. Use the < or > arrow to select minutes and press 'OK'.

1.8. Press the 'Menu' button to exit the programming mode.

2. Setting a Day of the Week Program

2.1. Set the device date and time using the 'Setting the Date and Time' Procedure 1'.

2.2. Press the 'Menu' button and the 'Prog' icon will flash. Press 'OK' and the program number will flash.

2.3. Use the < or > arrow buttons to cycle through each program number 'ON' and 'OFF', and press 'OK' for the program number you wish to set. The hours and minutes will start flashing.

2.4. Press the 'Menu' button to set the hours using the < or > arrows and press 'OK' when set. Repeat for setting minutes.
*To cancel a program time. use the above sequence to select the hours. Press the 'Menu' button and the time setting is erased and then press 'OK'.

2.5. After setting the minutes, the days of the week will flash. Use the > arrow button to cycle through the days of the week to adjust which days should be active.

2.6. To delete a day of the week, press the > arrow button until the appropriate day is flashing.

2.7. Pressing the < arrow once brings up the option to delete the day of the week then press the > arrow button to accept the change. The day is now deleted.

2.8. To copy or add a day of the week, use the > arrow button to highlight an active day

CSG
CONNECTED
SWITCHGEAR

and press the < arrow button twice until you see 'Cop' flashing on the display. Press the > arrow button to confirm, then the > arrow button to cycle to the day you wish to add. Press the < arrow twice until 'Cop' appears and select the > arrow to confirm. The day has been added.

2.9. When completed, press the 'OK' button to accept the set program time.

2.10. To set another program, repeat steps 2.2 to 2.7 or;

2.11. Press 'Menu' to exit the Program setting mode.

3. Setting a Holiday Program

3.1. Press the 'Menu' button until the 'Man' icon flashes. Press 'OK'.

3.2. Use the < or > arrow buttons to cycle to the 'Holiday' icon. Press 'OK'.

3.3. Use the same sequence to set the Year/Month/Date for each ON/OFF time.

3.4. Press 'Menu' to exit the programming mode.

4. Setting a Countdown Function

4.1. Press the 'Reset' button and the 'Prog' icon will flash.

4.2. Use the > arrow to cycle through and select the Countdown function icon, then select 'OK'. The following icons should appear: 'Clock/Man/Countdown Timer.

4.3. Set the device date and time using the 'Setting the Date and Time' procedure above.

4.4. Press the 'Menu' button twice to cycle to 'Man' and the icon will flash. Press 'OK'.

4.5. Select either ON AUTO/OFF AUTO by pressing 'OK' button, depending on the desired load state when the countdown begins. Select 'Menu' to accept.

If using an additional switch location, follow steps 4.6 & 4.7 below.

4.6. Press the 'Menu' button twice to cycle to 'Man' and the icon will flash. Press 'OK'.

4.7. Use the < or > arrow buttons to cycle to the 'EXIT' setting and select 'OK'. Use the 'OK' button to toggle through OFF or ON if you are using an additional switch to operate the device. Select 'Menu' to accept the change.

4.8. Press the 'Menu' button 4 times to cycle to 'Countdown' and the icon will flash. Press 'OK'.

4.9. The Countdown hours setting will flash.

4.10. Use the < or > arrow buttons to adjust the required minutes, and press 'OK'.

4.11. Use the < or > arrow buttons to adjust the required seconds, and press 'OK'.

4.12. Press the 'Menu' button to exit the programming mode.

4.13. To activate the timer countdown sequence, either:
  a. Press the 'OK', '+' and '>' button together or;
  b. Press the additional switch if EXT option was selected

5. Setting a Pulse Function

5.1. Press the 'Reset' button and the 'Prog' icon will flash.

5.2. Press the 'Menu' button once and the 'Pulse' icon flashes. Select 'OK'. The following icons should appear: Clock/Man/Pulse.

5.3. Set the device date and time using the 'Setting the Date and Time' procedure above (1.1 - 1.8).

5.4. Press the 'Menu' button and the 'Pulse' icon will flash. Press 'OK'.

5.5. To set up to 32 times, select the required program and press 'OK'.

5.6. The hours and minutes will flash. Press 'Menu'.

5.7. Use the < or > arrows to adjust the hours. Press 'OK'.

5.8. Use the < or > arrows to adjust the minutes. Press 'OK'.

5.9. After setting the minutes, the days of the week will flash. Use the > arrow button to cycle through the days of the week to adjust which days should be active.

5.10. To delete a day of the week, press the > arrow button until the appropriate day is flashing.

5.11. Pressing the < arrow once brings up the option to delete the day of the week, then press the > arrow button to accept the change. The day is now deleted.

5.12. To copy or add a day of the week, use the > arrow button to highlight an active day. Next, press the < arrow button twice until you see 'Cop' flashing on the display. Press the > arrow button to confirm, then use the > arrow to cycle to the day you wish to add. Press the < arrow twice until 'Cop' appears and select the > arrow to confirm. The day is now added.

5.13. Select 'OK'.

5.14. Use the < or > arrow buttons to adjust the pulse time out setting up to 99 seconds and press 'OK'.

5.15. Press 'Menu' to exit the programming mode.

TME116 Weekly Programmable Timer