



GasApps Australia P/L

MultiTimer MKII

Manual

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## General Description

The MultiTimer MKII is designed to control a single 240VAC solenoid valve for the dispensing of BOC Gases Envirosols products. These products include Pestigas, Deodourgas, Ripegas and Bactigas. The MKIII Spacecontroller is the only BOC Ltd approved dispensing equipment for use with Insectigas. Although limited approval is given to the use of solenoid valves for the automatic dispensing of Envirosols other than Insectigas, it is essential that only approved solenoid valves (#730016) and timers are used.

The MultiTime MKII incorporates an electronic digital seven-day time clock in conjunction with an ON/Off Cycle timer. The combination of these two timers allow the operator to set up an external solenoid valve to pulse ON and OFF (adjustable ON and OFF from 01.s to 100h) during any period of time which is controlled by the seven-day time clock.

The seven-day single channel time clock is capable of storing twenty different programme times, i.e. 10 ON switches and 10 OFF switches. These programmes can be set to run on any individual day or any combinations of days within each week. The time clock includes the following front panel buttons Time, Program, Manual, Day, Hour, Min, Clear, +1h, and Reset. The LCD display shows 12 or 24hr Time, Day/Number of the week, Switch status ie. ON or OFF, Automatic, Manual and FIX Modes

**Always clear existing programs before entering any new program.** All previous programmes should be deleted to avoid any confusion between old and new programs. To clear all existing switching commands, press tee “Prog” key as often as necessary until “FRxx” appears. Then press the “Clear” key once. “CL” is displayed. Now press and hold down the “Clear” key. All memory locations are now deleted. The display should show “Fr20” indicating all 20 memory locations are available.

**Always turn OFF all gas cylinders before attempting to set or adjust the weekly time clock.** It’s important to insure that the program is running correctly before gas is turned ON.

The **White Power Lamp** indicates when the unit is plugged into mains 240VAC 50Hz power. A 6AMP circuit breaker is also included and can be used as an ON/OFF switch

The Asymmetrical **Cycle Timer** controls the length of time in which the solenoid valve is ON and OFF for. Both the ON and OFF times can be adjusted from 0.1 second to 100 hours. The top two wheels marked “RANGE 1” and “TIME 1” are used to adjust the length of time in which the solenoid valve will switch ON (energise) for. The bottom two wheels marked “RANGE 2” and “TIME 2” are used to adjust the length of time in which the solenoid valve will switch OFF (de-energise) for. Below are a few examples of how to adjust the Cycle Timer

**WARNING!** It’s important not to cycle the solenoid too frequently as both the cycle timer and valve have a limited life cycle. It is recommended to program the ON time for 1 second or more and the OFF time for 5 seconds of more.

**Solenoid Valve Connection** This unit has been fitted with two special solenoid outlet sockets and is supplied with two loose plug tops to match. The socket outlet and plug top are rated for 240VAC 50Hz 10A and have round earth pins so as to make it impossible for people to plug in standard appliances.

## General Specifications

Dimensions	: 130mm wide x 180mm high x 110mm deep
Weight	: 1kg
Power Requirements	: 240VAC 50Hz x 10AMP
Protection	: IP55
Cycle Timer	: 240VAC, On/OFF Cycling, Electronic (range 0.1s – 100h)
Seven-Day Timer	: 240VAC, Electronic, Digital Display, 3 years Battery Backup
Circuit Breaker	: 6 AMP 240VAC single Phase
LED Power Lamp	: White, 240VAC [see Fig 3]
Inlet Power	: 240VAC Plug Top c/w 1.8m Power Lead
Outlet Power	: 240VAC 50Hz Socket Outlet, 3 Pin - Round Earth [see Fig 4]
Temperature Range	: -5°C to +40°C
Mounting	: Wall Mount



**Figure 1**

# Installation Instructions

## **Mounting the MultiTimer MKII**

The MultiTimer MKII is a weatherproof enclosure, however it is recommended that the unit be installed undercover away from direct sunlight and in a secure area. This unit must be installed by a qualified electrician, as there are 240VAC terminals exposed inside. A 240VAC 50Hz 10A power point will need to be available to plug into.

The unit is supplied with a rear PVC mounting plate with four mounting holes 145mm x 145mm x 7.0mm

## **WARNING**

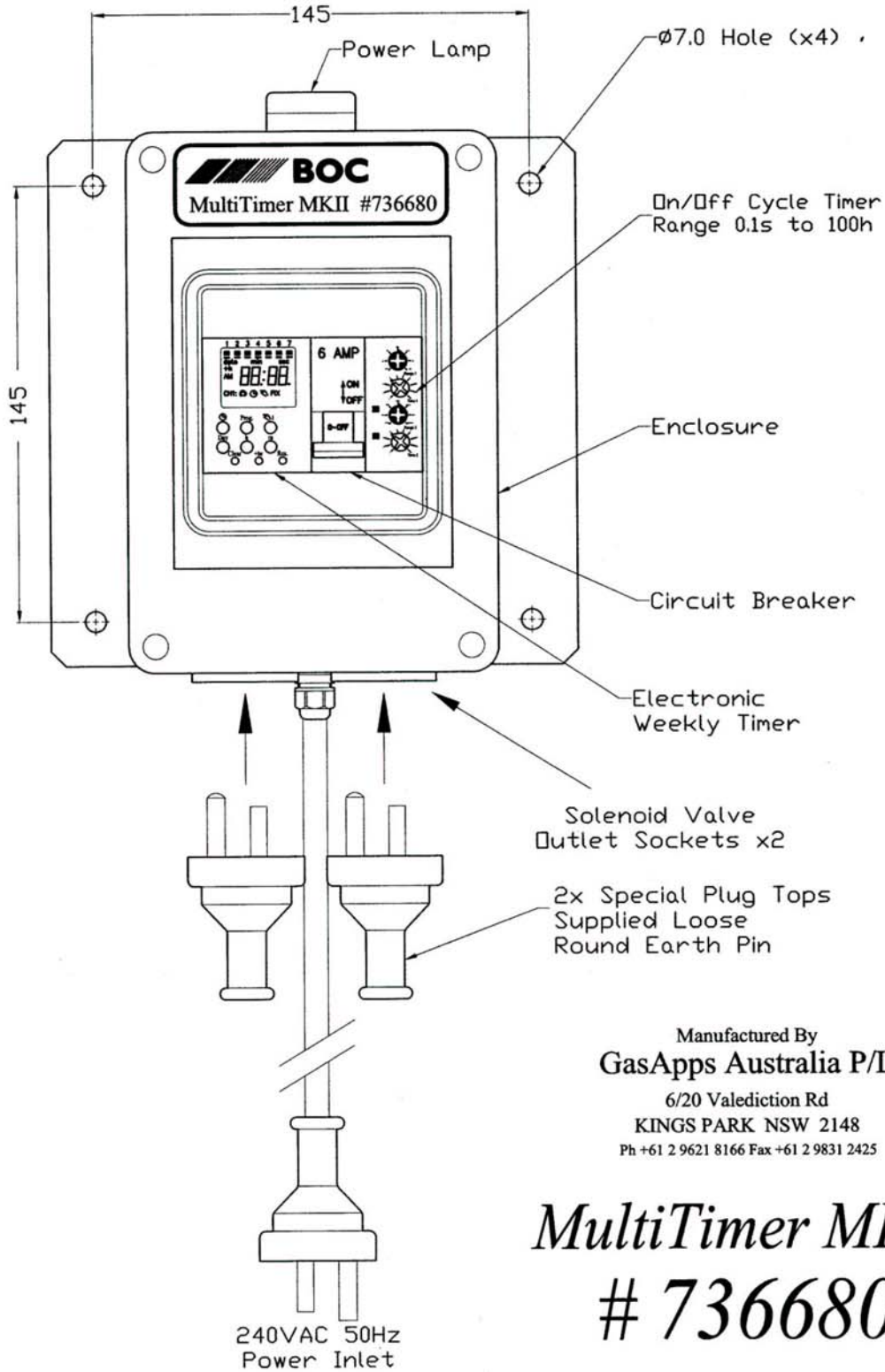
Always disconnect the mains power supply before removing the front cover.

The front cover will need to be removed by undoing the four Phillips head screws. There are four potential mounting holes available in the rear of the enclosure. The mounting hole dimensions are as follows 125mm x 102mm with a hole size of 4mm. Once the box has been secured to the wall the front cover should then be carefully replaced using the four Phillips head screws. Take care not to over tighten the four screws.

The external solenoid valve (#730016) will need to be wired up to the special plug top provided [see Fig 1, and Fig 4].



**Figure 2**

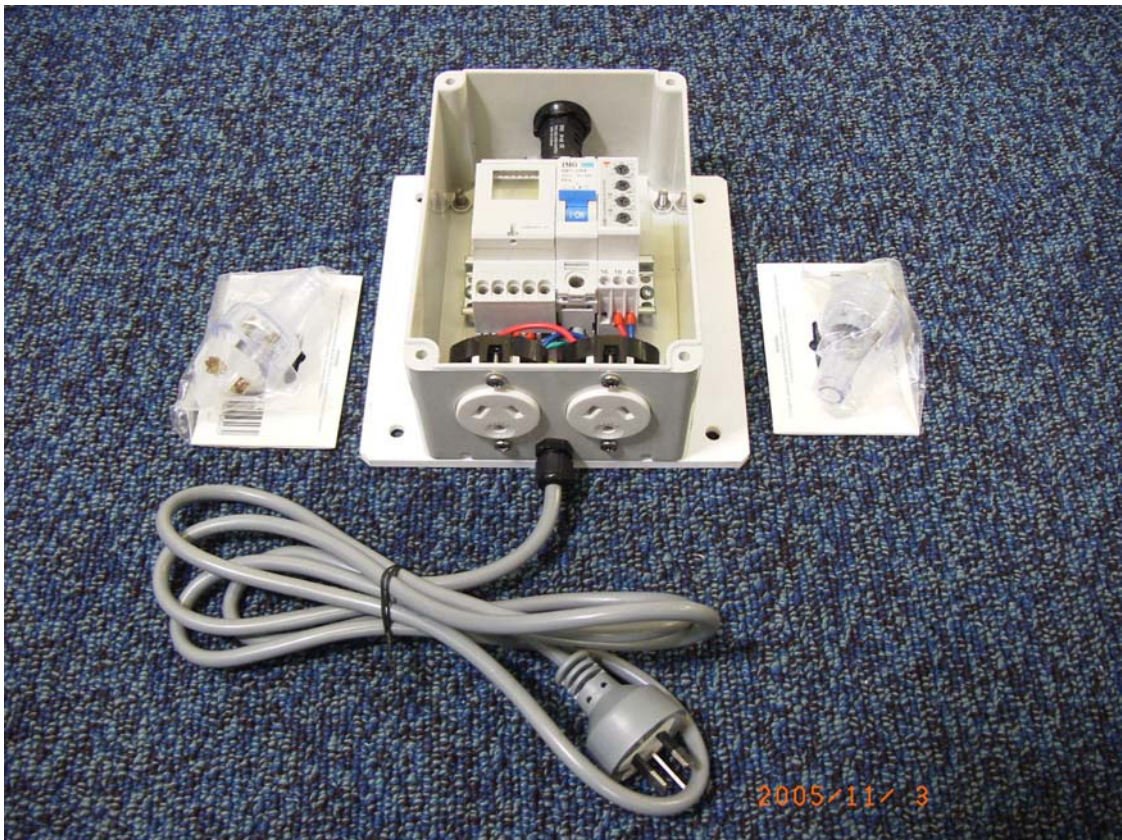


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*MultiTimer MKII*  
**# 736680**



**Figure 3**



**Figure 4**



Figure 5

## Setting Examples For Cycle Timer

Required Time	Required Wheel Settings			
	Solenoid ON Time		Solenoid OFF Time	
	RANGE 1 Wheel	TIME 1 Wheel	RANGE 2 Wheel	TIME 2 Wheel
8 seconds ON 18 minutes OFF	1s	8	0.1h	3
2 seconds ON 8 minutes OFF	1s	2	60s	8
12 seconds ON 2 minutes OFF	6s	2	60s	2
0.5 seconds ON 30 seconds OFF	0.1s	5	6s	5
1 minute ON 2 hours OFF	60s	1	1h	2



# Grasslin Time Clock Quick-Setup Instruction

## Grasslin Time Clock Quick Setup Program

<u>Command</u>	<u>Display</u>
<b><u>Reset The Time Clock</u></b>	
Depress "res" once	00:00
Repeatedly Depress "+hr" until "No" appears	No
Depress "☺" once	00:00 CH1 ☺
<b><u>Clear Existing Program Memory</u></b>	
Depress "Prog" until "FR00" appears	FR00
Depress "Clear" twice	CL Flashing - then - FR20
Depress "☺" once	00:00
<b><u>Set Time &amp; Day</u></b>	
Depress "☺" once	00:00
Depress "Day" to select the current day of the week ie 1=Mon, 2=Tue, 3=Wed, 4=Thur 5=Fri, 6=Sat, 7=Sun...	
Depress "h" to select the current hour of the day	15:00
Depress "m" to select the current minute of the hour	15:45
When finished Depress "☺" once to enter the time	15:45
<b><u>Setup 1st Program (eg. Turn ON Output)</u></b>	
Depress "Prog"	- : - -
Depress "Day" to select the current day of the week ie 1=Mon, 2=Tue, 3=Wed, 4=Thur 5=Fri, 6=Sat, 7=Sun...	
Depress "h" to select the current hour of the day	17:00
Depress "m" to select the current minute of the hour	17:55
Depress the "hand" button until the "☺" appears (=Output ON)	CH1 ☺
Depress "☺" once	17:55 CH1 ☺ ☺
<b><u>Setup 2nd Program (eg. Turn OFF Output)</u></b>	
Depress "Prog"	- : - -
Depress "Day" to select the current day of the week ie 1=Mon, 2=Tue, 3=Wed, 4=Thur 5=Fri, 6=Sat, 7=Sun...	
Depress "h" to select the current hour of the day	18:00
Depress "m" to select the current minute of the hour	18:00
Depress the "hand" button until the "●" appears (=Output OFF)	CH1 ●
Depress "☺" once	17:55 CH1 ● ☺

## WARRANTY

GasApps Australia Pty Ltd warrants the design of the MultiTimer MKII System for a period of 12 months from the date of invoice. GasApps will not accept any liability whatsoever for any alterations or modifications, made to any part of the equipment supplied, without written and signed authorisation from GasApps Australia Pty Ltd.

This Manual is supplied for the guidance of operators to enable them to understand and operate the equipment in accordance with its design specifications.

The long-term operation of the components and the unit as a whole depends highly on maintenance procedures and gas quality. This is solely dependent on the operator or buyer.

GasApps Australia Pty Ltd will not accept any liability for equipment failure due to poor quality gas and lack of maintenance.

Installation of electrical and gas connections must be made in accordance with BOC and GasApps specifications.

GasApps Australia Pty Ltd accepts no liability whatsoever for the consequences of any actions by persons other than GAA employees, which are not in accordance with the procedures set out in this Manual