

**GAA**

GasApps Australia P/L

Capillary Timer

Box

#750035

Manual

## Contents

- General Description
- General Specifications
- Installation Instructions
- Drawings
- Warranty

## General Description

The Capillary Timer Box is suitable for the dispensing of BOC Envirosol products. These products include Deodourgas, Ripegas and Bactigas. Other dispensing systems i.e. the Multitimer system c/w solenoid valves can be used to dispense Pestigas, Deodourgas, and Bactigas in certain cases, however the MKIII Spacecontroller is the only BOC 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 and timers are used.

**WARNING !**

**DO NOT USE**  
**WITH PURE**  
**ETHYLENE GAS**

## General Specifications

### **Control Box**

Dimensions	: 110mm wide x 110mm high x 88mm deep
Weight	: 1.05kg.
Power Requirements	: 240VAC 50Hz
Protection	: IP55
Timer	: On/OFF Cycling, Electronic (range 0.1s – 100days)
Temperature Range	: 0°C to +30°C
Capillary Dose Rate	: 0.4 g/s (grams per second)
Solenoid	: Envirosol Compatible 240VAC x 6W
Pressure Rating	: 5000kPa
Mounting	: Cylinder Mount Only

# Installation Instructions

## **Mounting the Control Box**

The Control Box is a weatherproof system, however it is recommended that the system be installed undercover and in a well ventilated secured area. This unit is designed to mount directly onto a cylinder, which should be secured to a wall using a cylinder strap [No. 730008].

All Envirosol supply cylinders must be located out of direct sunlight and away from other sources of heat to ensure that the temperature of equipment and cylinders does not rise above 30°C, otherwise, design pressure of equipment will be exceeded.

## **Power Supply**

The 240VAC power supply should be plugged into a 240VAC 10AMP, 50Hz power-outlet socket situated away from sunlight and rain.

## **WARNING**

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

## **Adjusting The Times**

The top two adjusters vary the length of time for which the solenoid will be ON or energised for which is indicated by a slow flashing Red LED.

The first adjuster is the range which can be set at 1s, 10s, 1m, 10m, 1h, 10h, 1d, 10d, 30d, 100d. The second adjuster is a decimal portion of the first adjuster.

ie. If the first adjuster is set at 10s and the second adjuster set at .4, then the solenoid valve will come ON for  $10s \times .4 = 4seconds$ , or If the first adjuster is set at 1m and the second adjuster set at .3, then the solenoid valve will come ON for  $1m \times .3 = 0.3minutes$  which is 18seconds.

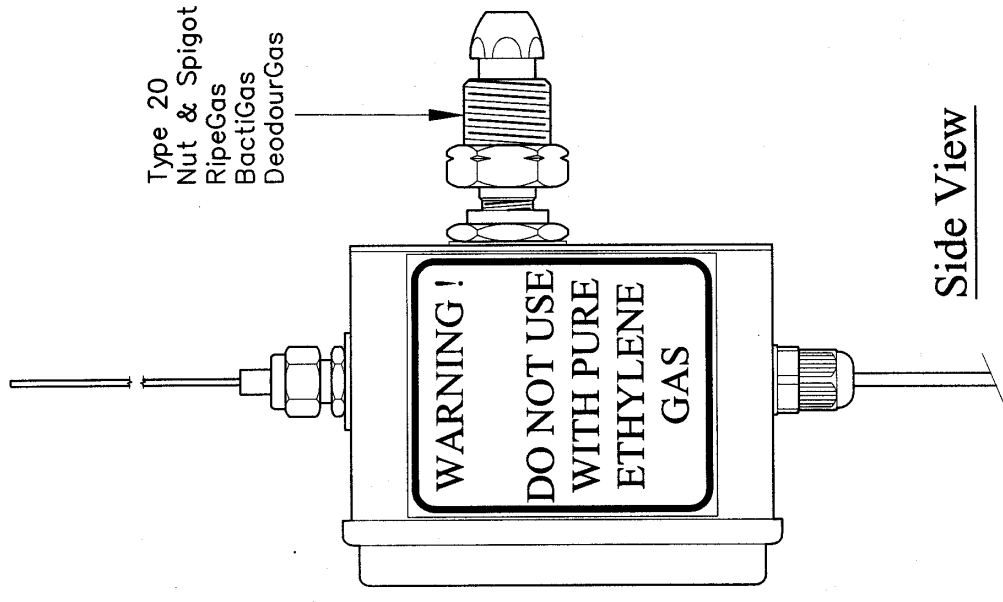
The bottom two adjusters will determine the length of time for which the solenoid valve will be OFF or de-energised for and is indicated by a fast flashing Red LED. The bottom two adjusters have the same adjustment capability as the top two

It is important not to cycle the solenoid too frequently as both the 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 or more.

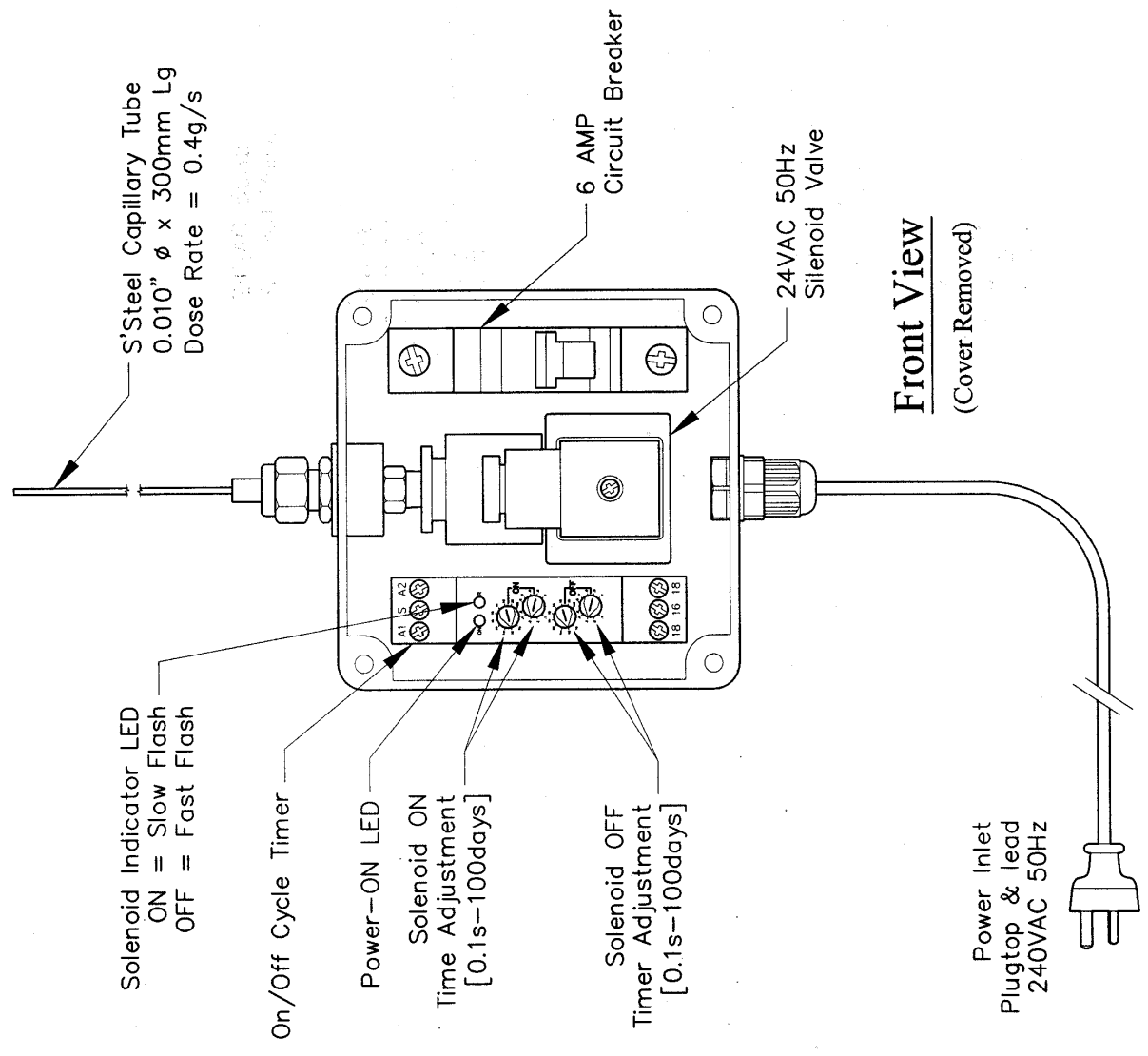
## **Capillary Nozzle**

This tube is 300 mm long and has an inside diameter of 0.010" inches [0.25mm]. It is important to keep this nozzle/tube dirt-free, as it's almost impossible to clean if blocked. There are two filters fitted to this unit, one in the inlet spigot and one in the gas outlet fitting. This nozzle/tube has a flow capacity of 0.4g/s if running full time. The throughput of this nozzle can be reduced even further by adjusting the internal timer.





Side View



Front View  
(Cover Removed)

# Capillary Timer Box

Part No: 730035 Rev B

## WARRANTY

GasApps Australia Pty Ltd warrants the design of the Pulse Dispenser 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