

# DUAL ALARM SYSTEM



## PART NUMBER CP-DAS-01 - USER MANUAL

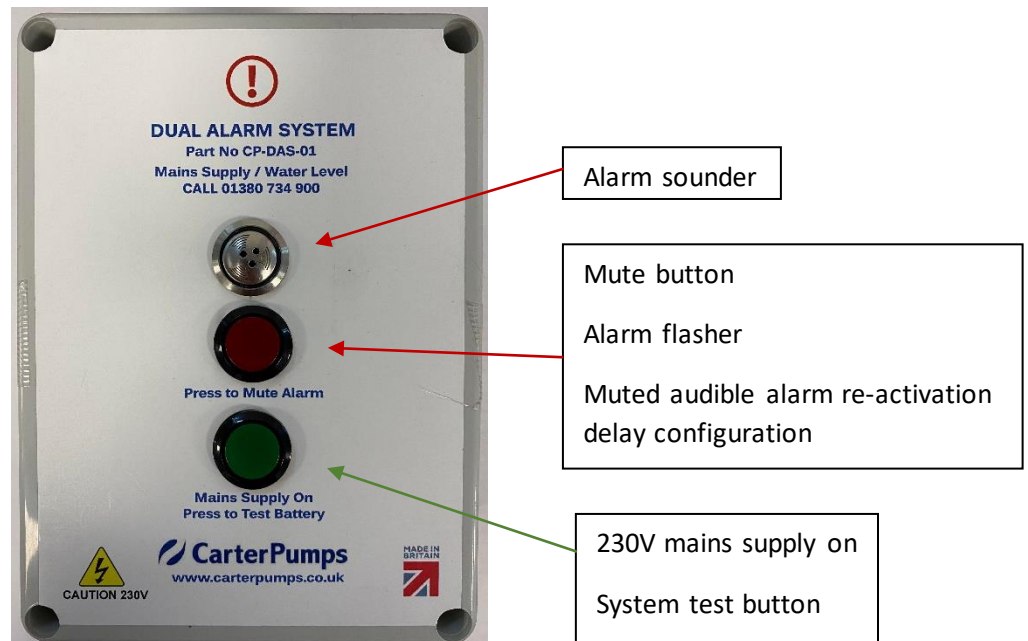
### Introduction

The CP-DAS-01 dual alarm system is designed to monitor incoming 230VAC mains supply, and also a volt-free digital input and raise an alarm on mains supply failure, or when the digital input closes.

A re-chargeable 9V battery maintains the unit in the event of a power failure for up to 12 hours, (battery type NiMH PP3 200mA capacity eg RS part number 199-646). The built-in battery charger cycles on/off automatically, the software is optimised to reduce battery charging cycles to maintain battery life.

### Features

- Alarm on mains failure and also on closure of the volt-free N/O digital input
- Green power on indicator also a battery test button (change battery if alarm doesn't operate when pressed)
- Different alarm/beep pattern for mains failure (slower) and digital input alarm (every 2 seconds)
- Automatic battery charger – self optimizing to reduce charging cycle
- Mute mode – when the mute button is pressed during an alarm it is silenced, however if the alarm isn't cleared within a configurable time (described below) the sounder will re-activate
- Configurable mute time – the mute time for mute mode may be set to 1, 2, 4, 8, 12 or 24 hours, when a muted alarm exceeds the set time the audible alarm will re-activate
- When a muted alarm clears, mute automatically cancels ensuring next alarm sounds
- Volt-free relay (SPCO) common alarm output for telemetry/flashing beacon etc.



### Alarming

The CP-DAS-01 will activate the alarm when the mains voltage fails, or when the alarm input is closed. The mains fail alarm is denoted by a slow single beep. The digital alarm input is denoted by a quicker beep (approximately every 2 seconds). If both alarms are present simultaneously the 2 second digital alarm input takes priority. If the mains fail alarm has been previously muted and the digital alarm activates it cancels the mute and the 2 second audible alarm operates.

When either alarm activates the auxiliary relay de-energises (failsafe). A volt free single pole changeover contact is provided (COMMON, N/C and N/O) for external use (flashing beacon, BMS, telemetry etc).

## Mute Mode

An active alarm will activate the sounder and also flash the integrated lamp in the mute button. When an alarm is active, press the mute button for approximately one second to mute the alarm. The CP-DAS-01 will beep twice to acknowledge that the sounder is muted. If the alarm clears whilst muted the mute will be cancelled, ensuring that the next incoming alarm is sounded.

## Configuring Mute Time

When there is no active alarm present, hold down the mute button to cycle through the selectable mute times. The unit will beep according to the table below. Just hold the mute button until you hear the desired number of beeps. The setting is stored so remains configured on mains fails events and changes of battery.

1 beep = 1 hour mute time	4 beeps = 8 hours mute time
2 beeps = 2 hours mute time	5 beeps = 12 hours mute time
3 beeps = 4 hours mute time	6 beeps = 24 hours mute time

## PCB Connections

