

MICROgarde Multi Controller Case Install Guide

QS051 Issue 1



Overview

This guide is intended to provide installation recommendations for the following MICROgarde range of controllers; 5002-1800 MICROgarde II 2 door access control unit, 5002-1801 MICROgarde II 2 door access control unit with TCP/IP port, 5002-1900 MICROgarde I 1 door access control unit and 5002-1901 MICROgarde I 1 door access control unit with TCP/IP port.

Specification	
Weight	600g
Operating Environment	-5°C to + 45°C to 95%RH (non-condensing)
Power	
Input	10 to 14 VDC 1A
Features	
Max Cards	Up to 30000 (with expanded memory MG II)
Doors	1 or 2
Readers	2 or 4 using TDSi readers in a read-in read-out configuration. Alternatively 2 readers equipped with industry standard
Inputs	4 in total; 2 used per installed door
Outputs	2 (30 V, 2 A rating) in total; 1 used per installed door
Expansion Option	Changeover relay module adds, 2 additional relay outputs and 4 additional inputs
Time groups	64
Anti-Passback	Timed and true
Mantrap function	Yes, MG II only
Communications	RS232, RS485, TCP/IP

Installation

The MICROgarde assembly consists of a printed circuit board (PCB), metal chassis plate and plastic cover.

The metal chassis is spaced away from the mounting surface to allow cables to run underneath and emerge at the terminal connectors. Tags are provided for screen termination, which are to be wrapped around the serrated cut-out. The chassis also acts as a heatsink for the power supply regulator on the PCB assembly.

A secure earth connection must be provided to the metal chassis plate.

The plastic cover provides ingress protection for the PCB assembly, breakouts are provided for cable access. If the controller is to be mounted within an enclosure this can be removed.

When siting the controller consideration should be given to cable access, maintenance and thermal dissipation.

It is recommended a minimum clearance of 100mm is maintained around the controller.

Shielded cable should be used for all external connections, as a minimum communication and reader cables must be shielded with a length of at least 2m. Care should be taken when connecting cable shields to avoid ground loops, typically screens from external devices should be terminated at the controller unless the device is mounted on an earthed metal surface.

An outline of controller dimensions and fixing locations are provided below:

