

Control Box User Manual

For Car Park Display System

Title Page

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Table of Contents

1. INTRODUCTION.....	3
1.1. SCOPE	3
1.2. PURPOSE	3
1.3. DESCRIPTION.....	3
2. KEYPAD OPERATION.....	5

1. Introduction

1.1. Scope

The scope of this document covers the Control/Monitor Box that operates the AGK Car Park displays.

1.2. Purpose

The purpose of the document is to provide the relevant user information on how to enter and send information to the displays.

1.3. Description

The SAREL Control box is a lockable steel housing that contains the following:

- Relevant PCBs
- Transformer
- Keypad
- LCD Display Panel

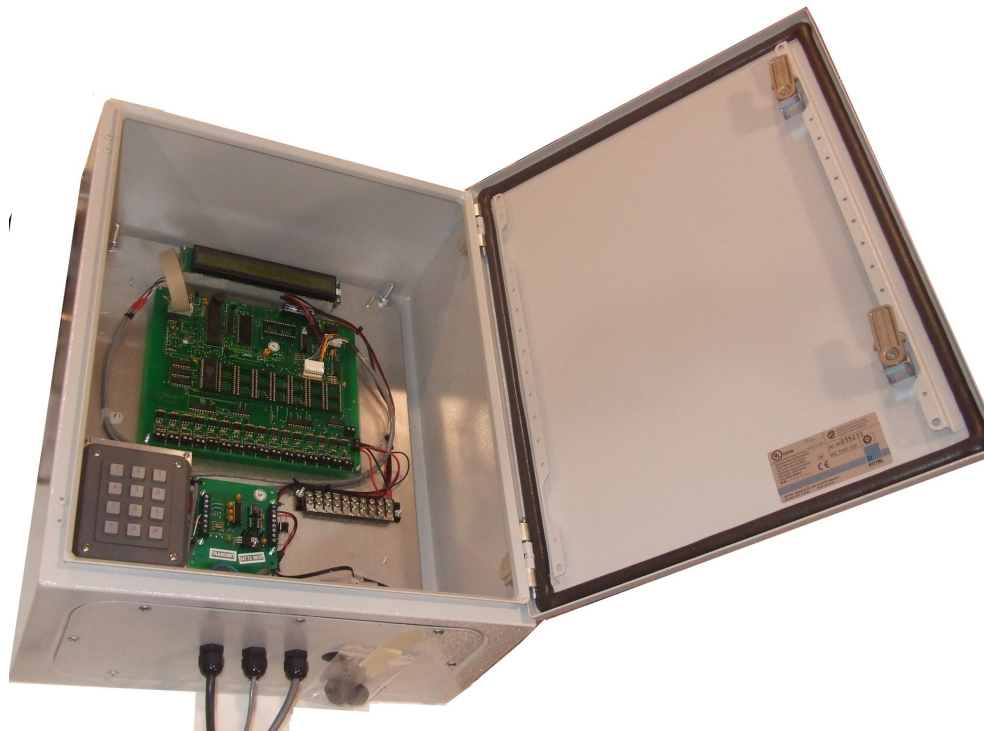


Figure 1.1 –Control Box.

On the bottom of the Box are the Glands for the Serial and Power cables.

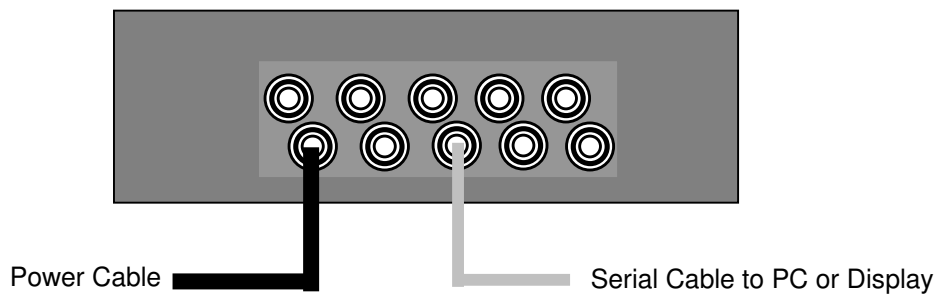


Figure 1.2 – Typical Control Box Connectors.

The cables used are:

- Power Cable
- RS232 Serial Cable to PC
- RS485 Serial Cable(s) to Display(s)

The Numeric keypad has the following keys:

- Ten numeric keys (1 to 9 and 0)
- # and * Keys

2. Keypad Operation

The Keypad on the Control Box allows the user to set the following:

- Number of SPACES in the Car Park
- Maximum number of SPACES in the Car Park

To add or change any of the above settings, do the following steps:

1. Make sure all Serial Cables are connected.
2. Power-up the Control Box.
3. The LCD Panel displays the parameters as shown below:

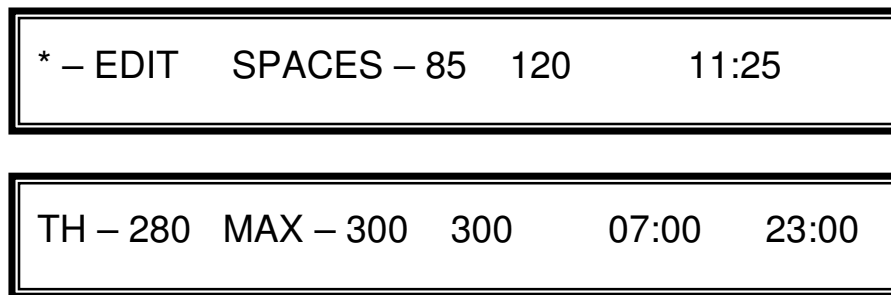


Figure 2.1 – LCD Panel Display.

Parameter	Description
* – EDIT	Press the * key to edit parameters
SPACES	This is the number of spaces available for Zone A & B
11:25	The current time (N/A)
TH	The threshold number of spaces.
MAX	Maximum number of spaces in the Car Park(s)
07:00	Opening time (N/A)
23:00	Closing time (N/A)

Table 2.1 – Parameters.

4. Press the * key followed by the number of the parameter you wish to change.

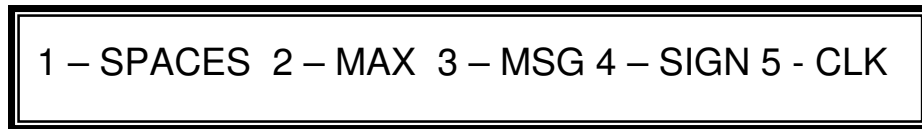


Figure 2.2 – Control Box Menu.

5. To add the number of SPACES in the Car Park, press the * key, then press the 1 key. Enter the number of SPACES 0-9999. Some Car Parks are divided into Zones A and B, enter the number of SPACES for each zone.

NOTE: Zone B is not applicable to this application. Enter 0000 only for functionality.

6. To enter the Maximum number of spaces or the threshold number, press the * key, then press the 2 key.
 - Press the 1 key and enter the number of SPACES 0-9999.
 - To set the threshold number, press the 2 key and enter the threshold number. When the Threshold number is reached the Displays show FULL. E.g If a Car Park has 300 spaces, you may wish to set the threshold number at 20.