

SMART HOPPER MANUAL SET

INTRODUCTION

INTELLIGENCE IN VALIDATION

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MANUAL AMENDMENTS

Document Base Details

Spec. Used	Issue Date	Receipt Date	Comments
GA860-2 draft	10/09/09	22/01/11	
GA620-2	30/09/08	22/01/11	
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Amendment Details

Rev.	Date	Amendment Details	Issued by
--	11/04/11	First Issue	EAM
A	10/06/11	Addition of power cable minimum sizing and other minor updates	EAM
B	21/06/11	Update to list of offices	EAM
C	22/07/11	Addition of earth bonding information	EAM
D	05/09/11	Added bezel securing information	EAM

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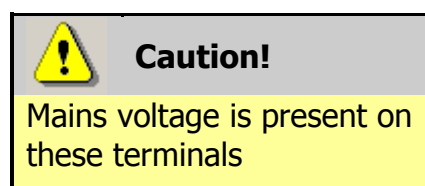
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PRODUCT SAFETY INFORMATION

Throughout this manual set, we may draw your attention to key safety points that you should be aware of when using or maintaining the product.

These safety points will be highlighted in a box, like this:



This manual set and the information it contains is only applicable to the model stated on the front cover, and must not be used with any other make or model.



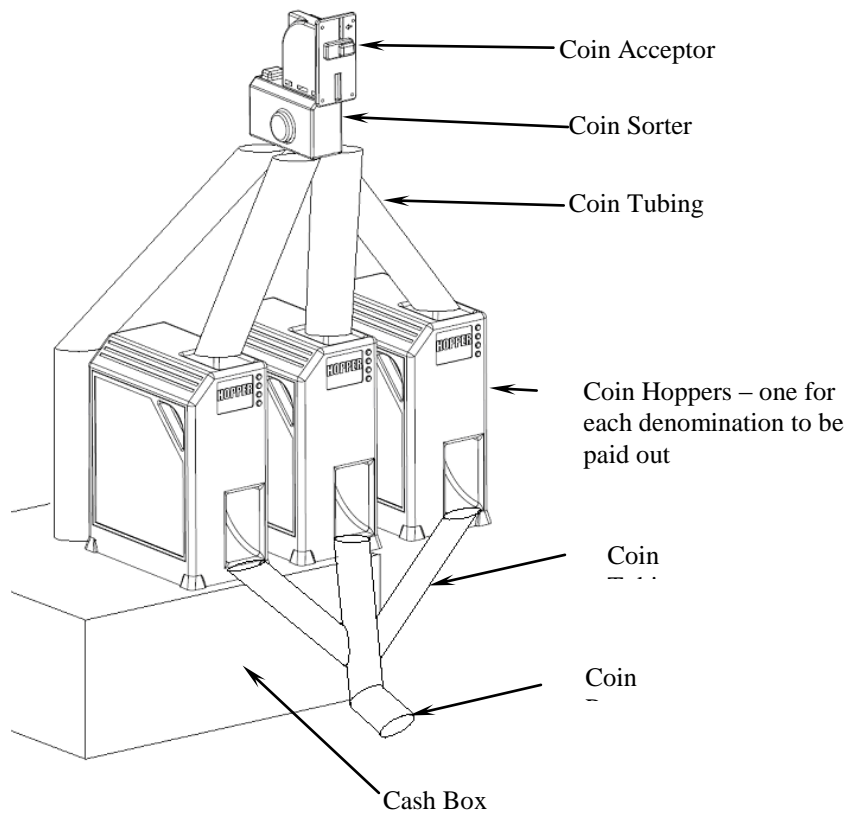
INTRODUCTION



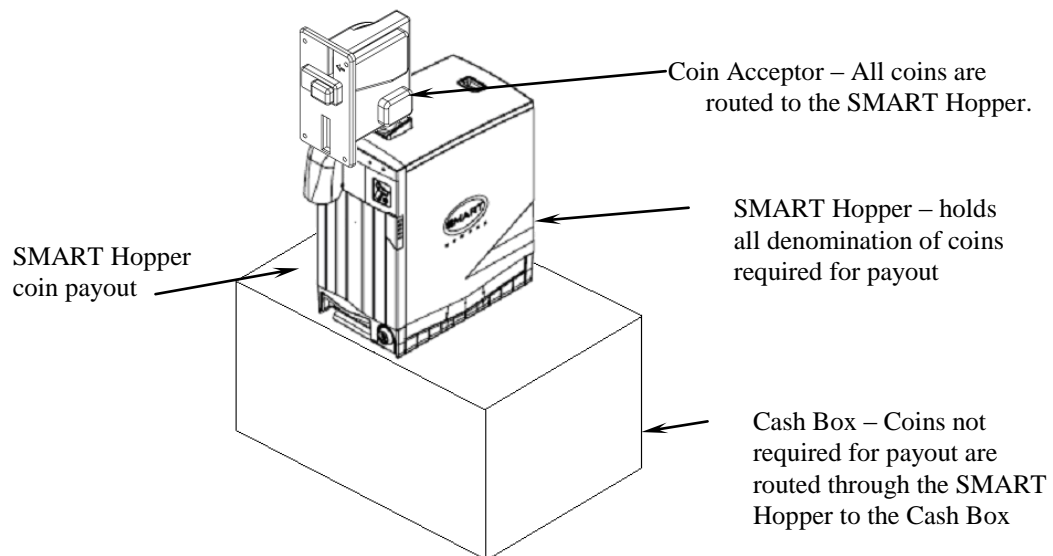
GENERAL DESCRIPTION

The SMART Hopper from Innovative Technology sets new standards for coin handling technology. The SMART Hopper is a multi-coin hopper with the ability to pay out coins of 11 different denominations at speeds up to 12 coins per second.

TRADITIONAL SETUP



SMART HOPPER SETUP



Other Features:

- Floating function
 - When the hopper receives the command to float to a required level, coins are sent to the cash box until the requested float level remains in the hopper
- No need for additional sorters, hoppers or tubing
 - All coins validated by the coin mechanism enter the hopper. The hopper will then send all unrequired coins (not needed for future payments) to the cash box.
- Built in security
 - Modulated coin exit sensor; 128 bit AES Encrypted SSP communications (eSSP); locking option.
- The SMART Hopper can be used to control a coin acceptor making machine wiring and software implementation simpler. There is no need to have a separate ccTalk bus to control the coin acceptor. Only 1 SSP bus is required, the hopper then communicates with the coin acceptor using a ccTalk connection.

TYPICAL APPLICATIONS FOR HOPPERS

The SMART Hopper unit can be used in a variety of situations where coin acceptance, validation and recycling are needed. Some typical applications are:

- Automated change transactions
- AWP and SWP applications
- Self-Serve and Retail
- Kiosks
- Casinos
- Parking and Ticketing
- Vending

STRUCTURE OF THIS MANUAL SET

This manual set is made up of a number of sections, each is supplied in a separate Portable Document Format (PDF) file, so you only need to download or print the section relevant to your requirements:

- Introduction
- Section 1 – Hopper Installation
- Section 2 – Field Service Manual
- Section 3 – ITL Software Support Guide
- Section 4 – Mechanical and Electrical Manual
- Section 5 – Software Implementation Guide
- Section 6 – Technical Appendices

WHICH SECTION IS RELEVANT TO ME?

- **Quick Start and Configuration Guide:**

- Most users should use this section; typical users are software engineers looking at how to make it work, project engineers evaluating their first unit, or installation engineers installing the unit into a host machine.
- This section contains the essential information that a user needs to quickly assemble and configure the SMART Hopper unit ready for installation into the host machine.

- **Field Service Manual:**

- Typically used by the field service engineer who is maintaining the product.
- This section contains the essential information that the field service engineer needs to clean, maintain and fault find a SMART Hopper unit that is installed in a host machine.

- **ITL Software Support Guide:**

- Any user who wants to test the functionality of the unit, reprogram the firmware or dataset, or set up the encryption key, address or routing for the unit.
- This section contains the information needed for a user to configure and program the SMART Hopper unit, using a range of software tools such as PiPS.



- **Mechanical and Electrical Manual:**

- Design engineers who are designing a host machine cabinet, or looking to integrate the SMART Hopper unit into an existing cabinet.
- This section contains all the mechanical and electrical information a designer needs to effectively integrate the SMART Hopper unit into a host machine.

- **Software Implementation Guide:**

- Software engineers looking at how to implement the SMART Hopper unit in their host machine, or design engineers looking at including the unit in their host machine.
- The information in this section details the communications protocols, specific commands and interfaces used including eSSP and CC2.

- **Technical Appendices:**

- These appendices have no specific audience, but users can find relevant and useful information here.
- This section includes information on product approvals, technical specifications and ordering information.