

ALPHA-1 v4 Technical Overview

System Description for Version 4

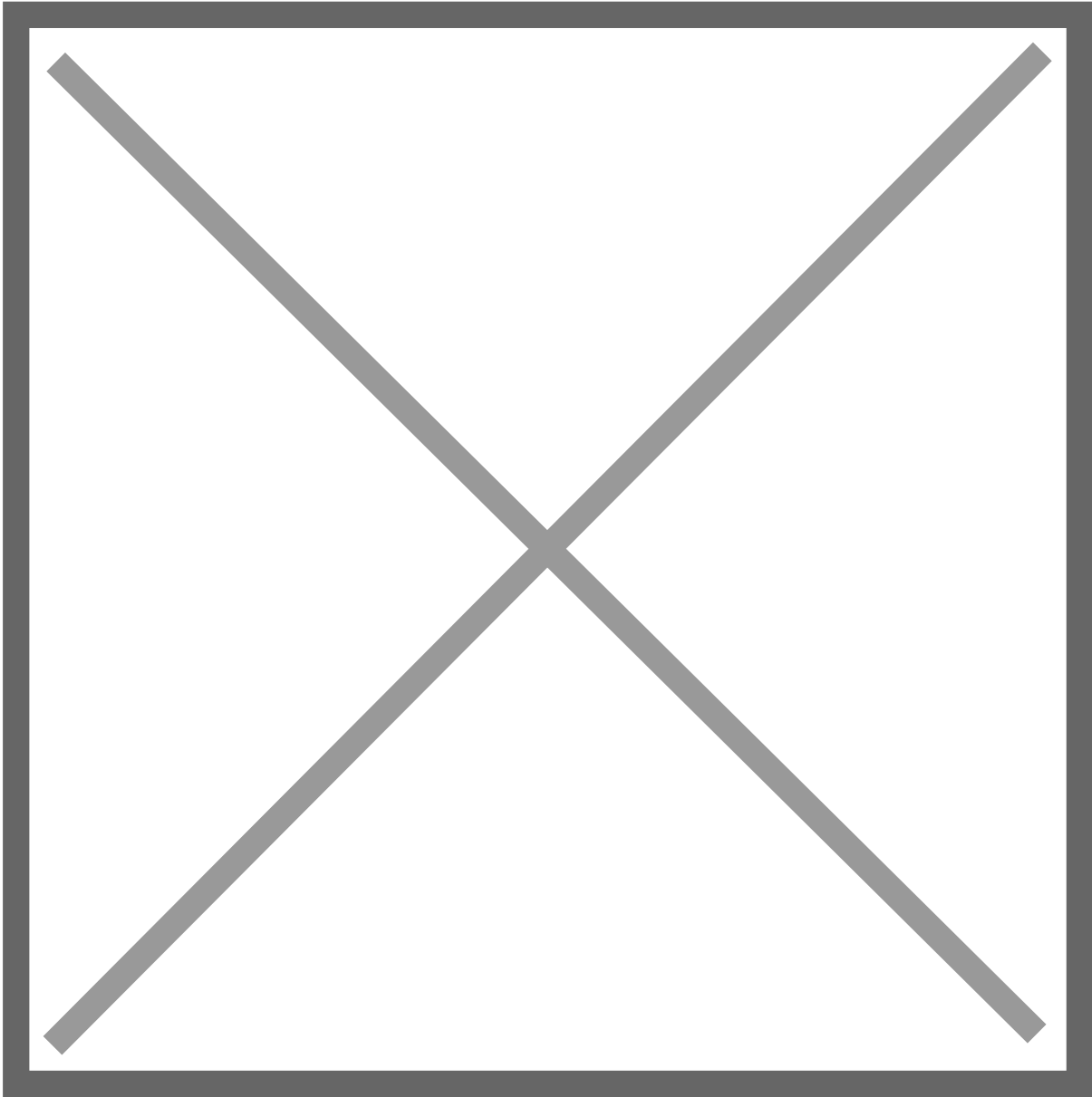
A typical coin acceptor sends a signal to a machine through a pulse. The number of pulses will indicate the value of the coin inserted. The pulse signal has two properties:

1. Pulse Width - The length of the pulse
2. Pulse Interval - The length between pulses

Coin rate is the number of pulses for RM1.

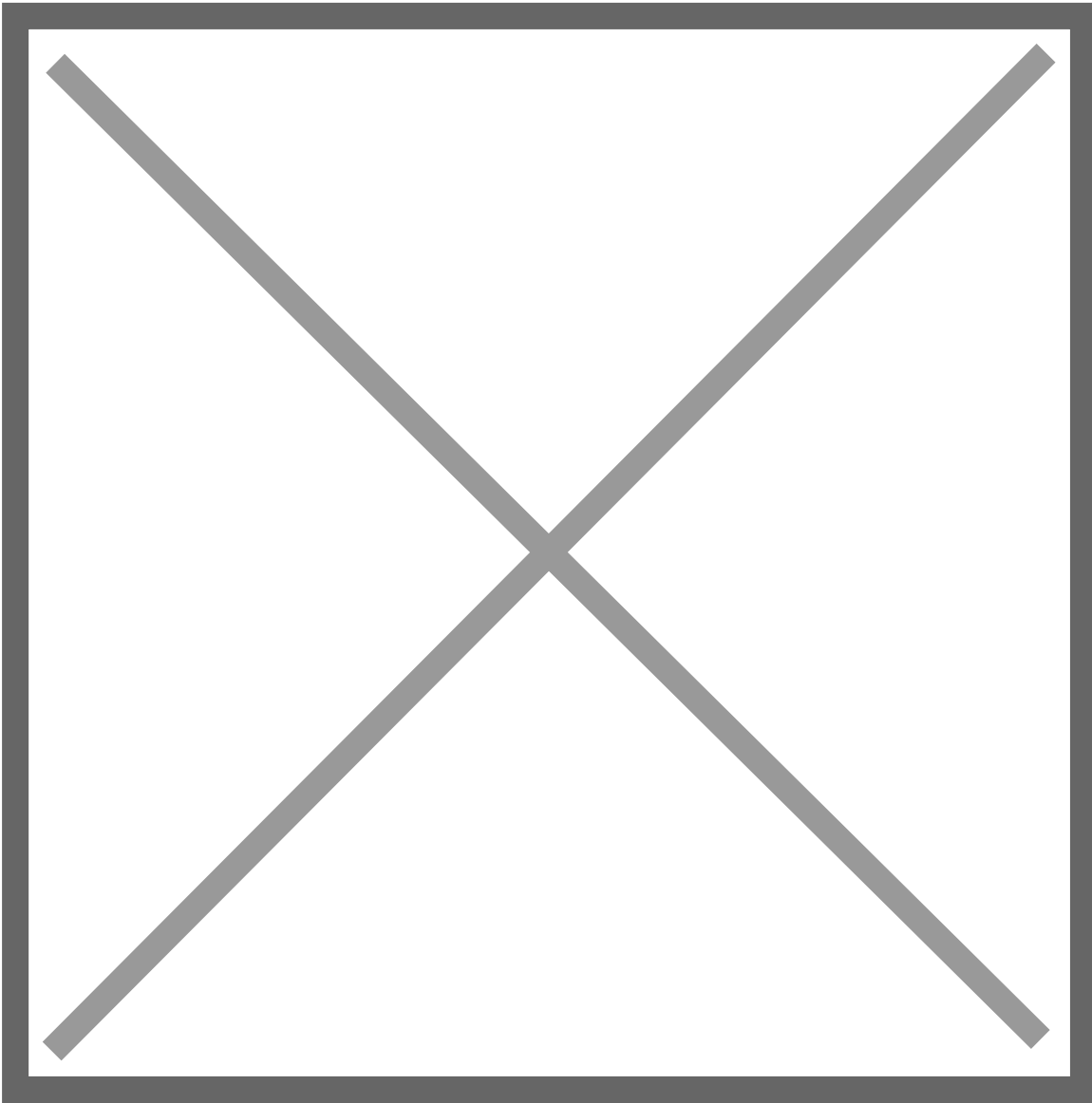
Eg.

- RM0.5 produces 5 pulses - Coin rate = 10
- RM0.5 produces 1 pulse - Coin rate = 2
- RM1 or 1 token produces 1 pulse - Coin rate = 1



Our Alpha1 device is placed in between the coin acceptor and machine. The Alpha1 device has 3 main functions:

1. It allows the signal to pass through from the input to the output.
2. It reads the pulse based on the pulse width. (Coin Read)
3. It outputs pulses from the cloud based on the pulse interval. (Cloud Pay)



Alpha-1 version 4.3 is an upgrade which aims to ease the installation process. The diagram below shows an overview of what its wire connection looks like. There's primarily 2 major update in this version:

1. Device is connected directly to cloud
2. Smaller in size to allow easier handling

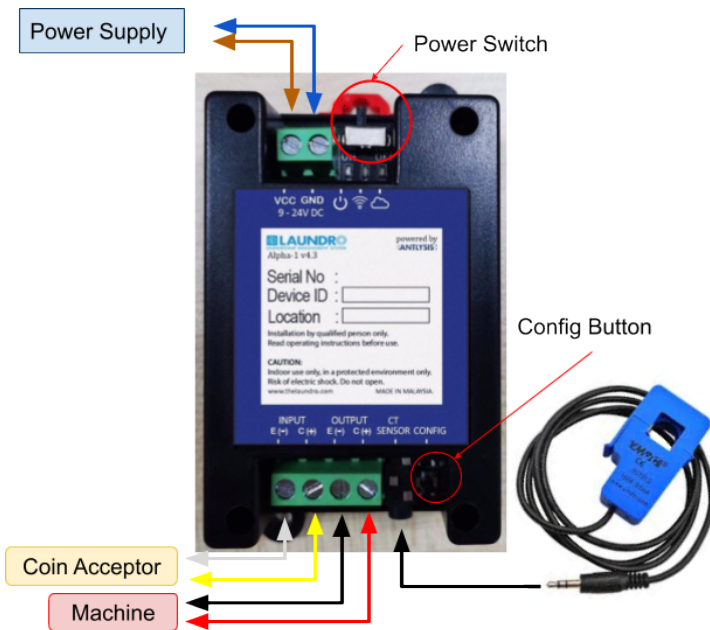


Figure 1: Alpha-1 version 4.3 Connection Overview

Equipment and Material Required

1. 4 cores cables
2. 2 cores power cable
 - 23/0.15 x 2 cores (~2.0A)
 - 42/0.15 x 2 cores (~6.0A)
3. Test Pen (5mm Standard Tip)
4. Self-adjusting Wire stripper
5. Hexagon Socket screwdriver bit, 8 mm
 - Dexter
 - Speed Queen
6. Hexagon Socket screwdriver bit, 7 mm
 - Lavamac
7. Hexagon Socket screwdriver bit, 10 mm

- IPSO

8. Torx Screwdriver Bit, T30

- Electrolux

9. Torx Screwdriver Bit, T20 With Hole

- LG
- Dexter

10. Torx Screwdriver Bit, T10

- Dexter

Revision #1

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