VEHICLE OR PEDESTRIAN COIN PAYMENT SOLUTION - TYPE CPS-0002

Our Parking Machine Control board is design to connect all the components needed to make a fixed free parking machine.

The control board consists of:-
- 8 optically isolated outputs.
- 2 relay outputs.
- Connection for a large graphic display.
- Connection for a coin validator.
- Connection for an escrow.
- Connection for a receipt / audit printer.
- RS232 interface.

The control board is micro-processor controlled and because we have designed it, we can write the software to meet your specific requirements

BASIC OPERATION
The following describes our standard firmware's basic operation.

At rest the display (if fitted) alternates between the "FEE" and the time/date.

Once the detection loop (if fitted) has detected a vehicle the display back-light will illuminate. The coin entry shutter (if fitted) will open and the coin validator blocker will be removed in readiness for the unit to accept coins.

As each coin is inserted its value is deducted from the "FEE" until the vend price is reached. Once reached the display changes to "THANK YOU", the barrier will open allowing passage and the escrow accept solenoid will operate to route the coins held in the escrow into the cash box.

A transaction complete signal from the barrier once it starts to close is used to confirm the vend. If the following payment has already been made another open signal will be given (stacking function).

If required a receipt/audit printer can be connect. Once the payment has been made the money will be held in the escrow until the receipt has been taken. If the receipt is not taken it will be withdrawn back into the printer and the transaction cancelled.

Detailed audit information is shown on the display, when either the cash box is removed, or last shift switch is operated. Alternatively it can be printed either on a small hand-held printer or via the receipt/audit printer.

A "LAST SHIFT" switch (if fitted) is used to print the audit information but in this instance it in NOT reset.

The "ENGINEERS" switch (if fitted) will print the last 20 operation and a list showing the inputs status.

The output from a space counter can be used to indicate that the car park is full. If input 3 is activated the display will show "CAR PARK FULL" and the blocker will be applied to the coin validator stopping coin acceptance.

As standard only 6 of the optically isolated inputs are used, there functions are:-

Input 1.	Vehicle detection loop.
Input 2.	Barrier open / reset.
Input 3.	Space counter.
Input 4.	Cash box switch.
Input 5.	Last shift switch.
Input 6.	Engineers switch.

COIN PAYMENT SOLUTION (CPS)

TYPE - CPS-0002

TECHNICAL DATA No CPS-0002

Specification and design subject to change without notice.

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Whilst the unit can only work on one fixed price at a time there are five programmable vend prices. There is a binary input that can be used to set any of the four prices.

There is a fifth vend price controlled via a real time clock. This can be used to automatically change the vend price at any give time during the day. Only one time period can be set per day, but it can be different for each day of the week.

If required we can mount the control board into out PMC housing complete with coin validator and escrow.

Advantages at a glance.
- Audit information for accountability and prevention of fraud.
- Audit retrieval via, display or printer.
- Remote audit and fault diagnostics via GSM or connection to a PC for networking and remote operation.
- Four adjustable tariffs settings.
- One real time clock tariff setting.
- Various make and model of electronic coin validator for single, multi coin and token acceptance.
- Large (optional) graphic display for visual instructions and audit retrieval.
- Stacking function to speed passage flow.
- Engineers test function.
- Last shift audit function.

TECHNICAL SPECIFICATION

- Operating temp: -20°C up to +70°C.
- Power supply: 20- 28 Volts AC RMS.
- Power consumption: 5VA nominal, 8VA during coin acceptance.
- Inputs: 8 optically isolated inputs, each input can be either:
    Volt free contacts capable of switching 18-30VDC into a 2k7 load, or 18-30 VAC RMS into 2k7 load.
- Outputs: Two volt free dry contact DPCO relays, and one 24VDC supply.
- Relays: Rated 1A 30 VAC, 0.5A 125 VAC.
    Relay 1. A. Barrier open signal.
            B. Escrow accept.
    Relay 2. A. Escrow reject.
             B. Not used.
- 24 VDC: Output to drive a coin entry shutter.

Optional Display
- Operating temp: -20°C up to +70°C.
- Size: 128 x 32 pixels.
- Viewing area 100 x 25 mm