ABBERFIELD
I N D U S T R I E S
PTY LTD   ABN 61 000 112 569

COIN
VALIDATORS

validators

ACCEPTS
$2.00
$1.00
50¢
20¢
10¢
5¢
COINS

VALUE INSERTED

REJECT COINS

SERIES 10 HOUSING

All 10 series units have common mechanical features.
- Secure seam welded housing.
- Injection moulded interior mechanism.
- No moving parts.
- Customer operating instructions.
- Internal operating instructions.
- Available in coin or token operation.
- **Dimensions: 240mm H x 198mm W x 89mm D.**

CS10 COIN SELECTOR

Simple, reliable mechanical checking of coins. Output is from a 10 amp rated microswitch.

CS10-F COIN SELECTOR

Single denominational coin operation. Electronic scanning of coins with timing adjustment of an output pulse. Accumulates coins to equal the vend price (1-9).
- Discriminates for washers and coins on a string.
- 240 Volt operation as standard.
- 12 Volt operation readily available.
- Cable clamp fitted for flexible lead connections.
- Vend price adjustable from 1 to 9 coins.
- Output pulse adjustable from 1 sec to 99 min.
- Dual circuit output model available.

CE10MF COIN EVENT CONTROLLER

Physically similar to other 10 series units. The output relay will switch on when coins are inserted and off when external pulses are received. Adjustable for the number of coins to turn on the relay and also for the number of pulses to reset the relay.

CE10MD COIN EVENT CONTROLLER

Similar to the CT10MF unit but operates on more than one denomination of coin.

CS20 COIN SELECTOR

Simple, reliable, mechanical checking of coins. Front coin entry.
- Available with or without rejected coin return feature.
- Range of metal housings available as optional extras.
- Available for various coin or token operation.
- Injection moulded mechanism.
- 10 amp micro-switch output.
- No moving parts.
- Self descriptive face plate.
- **Dimensions: 151mm H x 70mm W x 120mm D.**

CS20-F COIN SELECTOR

Single denominational coin operation. Electronic scanning of coins with timing adjustment of an output pulse. Accumulates coins to equal the vend price. Front coin entry.

- No moving parts.
- Injection moulded mechanism.
- Vend price adjustable from 1 to 9 coins.
- Available with or without rejected coin return feature.
- Available for various coin or token operation.
- Output pulse adjustable from 1 sec to 9.9 min.
- 240 Volts operation as standard.
- 12 Volt operation readily available.
- Dual circuit output model available.

- Operating instructions attached.
- Self descriptive face plate.
- **Dimensions: 151mm H x 70mm W x 120mm D.**

D

Display for panel mounting, to either the 10 or 20 series units.
- **Dimensions: 91mm H x 78mm W.**

TIME REMAINING
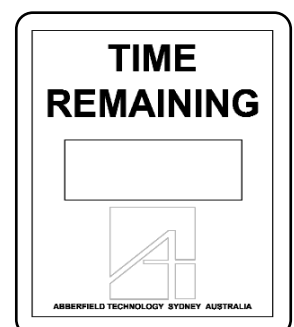
C22 SERIES COIN VALIDATOR

validators

DESCRIPTION

Accepts various coins and includes a display for customer advice of coins inserted. The validation technique tests for diameter, and metal type (resistivity, permeability density and thickness).

Physically similar to the C20 series.

- Validates 6 coin denominations.
- Acceptance of any coin can be invalidated by operation of the appropriate validate / eliminate switch.
- Standard dual 12 Volt / 240 Volt operation with 12 Volt output for limited external use.
- Instruction and wiring instructions permanently attached.
- **Dimensions: 151mm H x 70mm W x 135mm D.**

MOUNTING FORMAT

The C22 validator can be mounted on a panel with screws moulded into the faceplate or the mechanism can be mounted on a bracket and the faceplate is separately mounted. These formats are referred to a Panel Mount or a Separate Face Plate.

C22 VEND 4 COIN VALIDATOR

Used for vending machine application with control for 4 dispense motors and 4 inputs to detect sold out conditions.

C22 VEND 8 COIN VALIDATOR

Similar to the C22 Vend 4 but expanded to 8 outputs and inputs.

C22PC COIN VALIDATOR

(often called PC301)

Like other 22 series validators but designed for control of photocopy machines (see separate data sheet).

C22CP COIN VALIDATOR

As other 22 series validators but designed for car park boom operations.

CT22 COIN VALIDATOR

Using common C22 hardware the operating programme is for a timing function. The display shows time remaining.

C22I COIN VALIDATOR

This model is intended for networking into the Abberfield proprietary software networking system.

CV15 COIN VALIDATOR

FEATURES
- Validates seven coin denominations.
- Separate outputs for each coin or multiple signals on one output.
- Acceptance of any denomination can be invalidated by operation of the appropriate validate/eliminate switch.
- Optional display for remote mounting available.
- The validator is self contained in a splash proof polycarbonate housing so as to be unaffected by appreciable amounts of liquid poured over the mechanism.
- Control Functions are field adjustable.
- Self diagnostic display feature.
- Effectively maintenance free.

WIRING CONNECTIONS
Electrical configurations are:
Open collector NPN transistors, providing 0 Volts output signals with respect to ground. 330mm of ribbon cable terminated in a 16 way dual row 0.1 inch spacing plug.

Connections being:

1 not used	9 not used
2 not used	10 Second coin (10¢)
3 not used	11 Fifth coin ($1.00)
4 not used	12 Third coin (20¢)
5 Coin return	13 First coin (5¢)
6 Signal reset	14 not used
7 Fourth coin (50¢)	15 not used
8 Ground	16 supply

OUTPUT SELECT - Lower Switches
With switches 1 through 7 off (down) coins 1 through 7 that are validated will produce corresponding pulse outputs on connector 1 through 7. Switches 1 through 7 select outputs 1 through 7 to be active.

EXAMPLE

Coin #	Coin	Switch	Output Connection
Coin 1	5¢	-1-	Coin 1 output
Coin 2	10¢	-2-	Coin 2 output
Coin 3	20¢	-3-	Coin 3 output
Coin 4	50¢	-4-	Coin 4 output
Coin 5	$1.00	-5-	Coin 5 output
Coin 6	$2.00	-6-	Coin 6 output
Coin 7	spare	-7-	Coin 7 output

If only switch 3 is selected (on) all outputs are in terms of 20¢, ie. for one output signal the coin combination could be:

4 x 5¢	2 x 5¢ + 1 x 10¢
2 x 10¢	1 x 20¢

A 50¢ coin will give 2 output pulses with 10¢ remaining in memory. A $1.00 coin would give 5 output pulses.

Any combination of outputs may be selected to match the vending machine requirements. If more than one switch is engaged, output pulses will be on the most significant selected output and then in descending order.

The eighth switch on this row will give wide or narrow validation criteria.

CS15 COIN VALIDATOR

DESCRIPTION
A multi denominational coin validator including a three circuit pricing facility.

FEATURES
- Validates 6 coin denominations.
- Any denomination can be invalidated by operation of the appropriate validate/eliminate switch.
- Optional display for remote mounting available.
- Up to three price lines available.
- Self diagnostic display feature.
- Effectively maintenance free.
- Wiring connections are via screw connect, plug socket adaptors, permitting normal termination by screw-driver but still allows unplugging of the wiring harness.
- The validator is self contained in a splash proof, polycarbonate housing so as to be unaffected by appreciable amounts of liquid poured over the mechanism.

SPECIAL PROGRAMS
The validator is microprocessor controlled and substantial variation to the equipment operation is possible, without requiring hardware changes.

This feature permits control of customer's equipment being included in the validator's software. For example, all the vending functions of a machine can be directed by one central electronic unit - the customised validator.

COIN CLEARANCE
Operation of the release plate will cause the validator to split allowing bent coins to fall to the reject chute.

VENDING PRICES
A price plug is fitted below the control switches an can be pre-wired to give vending outputs on three circuits. Pricing can be between 5¢ and $9.95 in 5¢ steps.

Transistor outputs are capable of switching 4 amps and dissipating 5 watts.