



ABBERFIELD

INDUSTRIES

PTY LTD ABN 61 000 112 569

**COIN  
OPERATED**

**WATER  
DISPENSING**

*water*



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# **COIN CONTROLLED WATER DISPENSING EQUIPMENT HAS EVOLVED AS NEW APPLICATIONS EMERGE.**

## **HISTORICLY THERE WERE:**

- coin showers.  
(caravan parks and swimming pools)
- abitor truck coin wash down.
- car engine bay coin steam clean.
- coin controlled tanker filling.

## **EXISTING DATA SHEETS:**

- coin showers are best explained in the separate data sheet:

“Coin Operated Showers”

or

“Coin Showers Control”

available on Abberfield's website.

## **NEW APPLICATIONS INCLUDE:**

- boat ramp coin wash down facilities.
- recreational vehicle water tank filling in caravan parks.
- race horse wash down.



## COIN & CARD CONTROL STAND PIPES

# water

### DESCRIPTION

Essentially the equipment comprises:-

- A coin or token or magnetic card verification system.
- A solenoid valve (electric water tap).
- A water flow impulse meter to monitor the use of water.
- A control circuit to integrate all these devices.
- 240V or optional 12V operation.
- Suitable vandal resistant housing.

On insertion of coin, token or card the solenoid valve will energise, allowing water to be discharged.

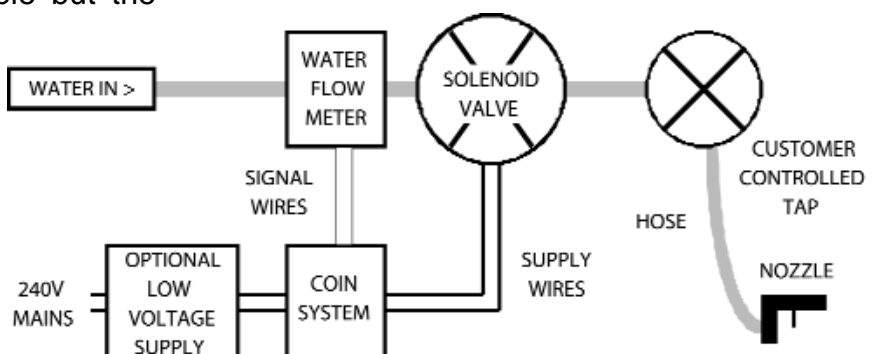
As the water is taken the impulse meter will output pulses to the control circuit. For tanker filling usually 1 pulse per 100 litres (approximately 22 gallons). When sufficient pulses have been received to equal the amount of water pre-purchased, the solenoid valve turns off. The charge for each 100 litres can be set on site without special tools or knowledge, by following the instructions permanently attached within the control unit.

There are now three standards:-

- Tanker filling.
- Wash down or RV vehicle filling.
- Domestic filling.

Various coin systems are available but the most common will accept a single coin denomination (20¢ or 50¢ or \$1 or \$2 or token) and will allow pre-loading of up to 99 coins for bulk purchasing of water. Another more sophisticated coin system is available that will allow insertion

*Diagram of the System*



of all coin denominations into one coin chute and will allow pre-loading to \$99.99. One of the more sophisticated unit also includes a display to indicate the remaining credit. The normal charging system is to allow water flow after inserting a single coin. Whichever system is used they can be adjusted on site so that a minimum charge is needed before the water will flow.

**The standard system allows the user to turn the water delivery on and off repeatedly until the prepaid amount of water has been delivered. However if any "off" period exceeds a preset period (normally 15 minutes) the system resets. This ensures that once a user has finished the residual credit is cancelled automatically.**

The principle of operation remains the same regardless of the size of the water pipe being controlled. Solenoid valves can be to almost any size by 1/2 inch, 1 inch, 2 inch (50mm) or 80mm pipe sizes are common.

Various packages are available depending on the level of security required and whether the system is free standing or wall mounted. **An option exists to delete the water flow impulse meter and dispense water on a time to dispense per coin, rather than an amount of water dispensed per coin.** This option reduces costs but also reduces features. The housing options remain the same.

## WALL MOUNTED BASIC UNIT

- Double insulated internals.
- Steel cover for security.
- Optional key by-pass (specify).
- Surface or rear wiring.
- Single denomination model CE10MF.
- Multi-denominational model CE10MD.



## HIGH SECURITY

- Made of 3mm plate steel.
- Double insulated internals.
- Minisafe lock.
- Optional key by-pass (specify).
- Surface or rear wiring.
- Single denomination model CE10MF-HSC.
- Multi-denominational model CE10MD-HSC.

Optional stainless steel cover add SS to model number.



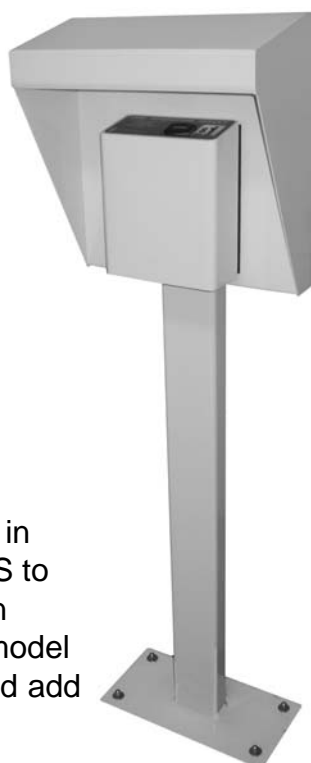
Optional stainless steel cover add SS to model number.

## THROUGH WALL MOUNTING

- Key by-pass option (specify).
- Fits most walls: concrete block / double brick / brick cavity.
- Coin collection from rear. 3mm front panel.
- Fascia with printed instructions for customers.
- Single denomination model CE20-MF-WM-RE.
- Multi-denomination model CE22-WM-RE.

## FREE STANDING WEATHER SHIELD

- Steel housing.
- Concealed wiring.
- Excellent weather protection.
- Stand suits all 10 series controllers, i.e. single denomination model CE10MF, multi-denominational model CE10MD, either model in the high security cover add HS to model number, either model in stainless housing add SR to model number. For the weather shield add WAS to model number.





**WIRING DETAILS**

# water

The water control system can be operated on 240V mains wires or an optional low voltage supply. If necessary, this low voltage can be a 12V battery such as a car battery that can be periodically removed for recharging or can be solar charged. Used this way, water control can be supplied to remote areas.

The flow meter and solenoid valve are fitted into the water supply line and wires run to the coin system (refer to diagram). If a 240V supply is used, properly insulated wires need to connect the solenoid valve. The flow meter only operates on very low voltage. If a 12V system is used, the connecting wires to the controller and solenoid valve need minimal electrical insulation, but do need mechanical protection and must have a large conductor size to minimise voltage loss.

**MAGNETIC CARD SYSTEM  
including optional coin**

# water

Magnetic cards can have a stored dollar value and on insertion into the machine water flows as normal. When completed the operator presses the card return button and the charge for the water is deducted from the card before being returned to the user.

**FEATURES**

- Card only or Coin and Card use.
- Special by-pass cards for free use, but can be limited to value or have an expiry date.
- Display shows available credit.
- Standard Abberfield card with printed instructions, or printing with customer's name and details.
- Systems for wall mounting, or pedestal mounting.



*Magnetic Card  
Machine*

**FREE STANDING  
SELF CONTAINED  
CONTROLLER AND WATER SUPPLY**

# water

Water controllers usually have the solenoid valve and flow meter installed in the plumbing remote from the controller. The free standing controllers incorporates a metal cover for cash collection security and the balance of the controller is made of injection moulded glass filled nylon for electrical safety.

## MEDIUM SECURITY

- Time based or water volume based control.
- Stainless steel cabinets.
- Customer instructions on top of cabinet.
- Uses 10 Series coin controllers.
- Can have a standard or a high security cover.
- Optional ground anchor plate for cementing into the ground.
- 25mm pipe size.
- Single or dual water outlet.

### Time Based

Model WDT10

### Volume Based

Model WDV10



*Medium security*

**FREE STANDING  
SELF CONTAINED  
CONTROLLER AND WATER SUPPLY**

*water*

**HIGH SECURITY**

- Time based on water volume based control.
- Stainless steel cabinet.
- 10 point locking system.
- Customer instruction on front panel.
- Concealed wiring.
- Optional ground anchor plate for concreting into the ground, can't tow it away.
- Optional security shell to further protect
- 25mm pipe size OR 40mm pipe size.
- Single or dual outlet.

*Time Based*

Model WDT1000

*Volume Based*

Model WDV1000



*High security*

**SPECIAL SYSTEMS**

# water

- Produced to meet customers needs.
- Large pipe size.
- Token operated.
- PIN access.
- Management accounting.
- Low power battery driven  
(impulse valve operated on and off).



*Example of solar locked system with 80mm pipe size*



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