

SERIES WD2500 & WD3000

# DATA SHEET

# TANKER FILLING STATIONS



## Abberfield Industries Pty Ltd

32 Cross St, Brookvale, Sydney NSW 2100 Australia  
Phone +61 2 9939 2844 Facsimile +61 2 9938 3462

Email [contact@abberfield.com.au](mailto:contact@abberfield.com.au)  
[www.abberfield.com.au](http://www.abberfield.com.au)



# COMMON FEATURES

## PAYMENT METHODS

Any combination of the following can be used to suit customers' needs:

- Credit Card
- Account Card
- Stored Value card
- Token payment
- Coin payment



## CREDIT CARD

- Includes Visa and MasterCard credit cards and debit cards.
- Transactions are normally limited to \$100-00 to comply with rules that permit card usage without using a PIN.
- Supports "Tap and Go" (near field proximity cards), contact chip cards and magnetic stripe cards.



## STORED VALUE CARDS

- Operation in a similar way to a toll road charging system.
- Uploading of credit to the stored value card can be automatic (similar to E Tags) or can require a user to upload credit via a secure Internet link.

## ACCOUNT CARDS

- Allowed access to water dispensing with subsequent billing for water consumed, usually on a monthly basis.
- Data for invoicing can be downloaded to a customer's IT system, allowing the customer to create "in house" accounts.
- Alternatively all accounting can be processed on behalf of the water dispensing authority.



## TOKEN PAYMENT

- Tokens can be supplied by Abberfield Industries for use through a purpose built coin/token validator. Standard Abberfield tokens are available or the tokens can be customised with a customer's image.

## COIN PAYMENT

- All coin denominations can be used, accurately checked for metal type as well as physical size.
- A display indicates the credit inserted and water taken.
- Coin **and** tokens payment in one validator.

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## DESIGN CONCEPTS



gold plated self-aligning chassis mounted plugs. These components of power supply, system controllers, battery and charger and configuration



### OPERATING PLATFORM

Operation can be by:

- Mains only.
- Mains with battery backup.
- Solar only.
- Solar with mains back up.

The WD2500 and WD3000 series use the same electronic and software platforms and most parts are interchangeable. The physical differences arise from the constraints of housing the plumbing.

module are held in place by 2 screws. These screws ensure the integrity of the electrical connections and their removal is all that is required to allow unplugging of each module, by unskilled or untrained persons.

Enclosing each module is to minimise the ingress of insect infestation and the exchange of air. This eliminates water vapour (humidity) and dust that can settle over the circuit boards and with the exclusion of humidity corrosion of circuit board is prevented, providing a much longer product service life with minimal or no maintenance cost.

### MODULAR CONSTRUCTION

The equipment has been designed and built to suit the application and therefore is different to conventional vending machines. In particular, wherever possible self-contained sealed components plug directly into

## SYSTEM BYPASS

There are two ways to bypass the card operation.

1. Bypass switch positioned on the configuration module.
2. Mechanical bypass within the plumbing assembly.

It is normal to use the switch bypass for short-term usage and the manual means for extended use.

## SWITCHBOARD OPTION

Both the WD2500 and the WD3000N can incorporate a mains switchboard within a separate inbuilt cabinet. This provides overload and residual current device (RCD) protection for maximum safety. Also included is an RCD protected power point, handy for site maintenance.

On request a further option is to include a mains meter and council fuses.

## REMOTE METERING

With the account card or stored value card the machine is connected via 3G to an Abberfield specific back office portal. This enables a considerable amount of reporting and machine control. Critical faults such as mains failure, loss of water pressure and machine faults can be automatically emailed to nominated recipients. Machine interrogation allows a study of operating conditions; battery voltage, solar output etc. Customer complaints can be analysed and user error identified in real time or from historic records.

Control of the machine via the portal can include turning the machine on or off,

payment bypass for a single transaction or until returned to payment mode and hours of sleep mode operation. The configuration of the machine access portal can be tailored to a customer's particular needs.

## WD2500 SERIES

With self-contained plumbing within the cabinet there are two standard configurations.

1. Internal back flow prevention (testable double check valves, plus two swing check valves).
2. External back flow protection by Residual Pressure Zone Device (RPZ).

The flow meter, solenoid valve, strainer and isolation tap are within the lower cabinet, easily accessed and removable by way of split union connections.

## PLUMBING OPTION

Incoming plumbing is usually 50mm and outlets are 50mm cam lock, plus 25mm ball valve.

Incoming plumbing can be by surface plumbing, however normally and preferred is vertical rising plumbing through the base





## PHYSICAL

### WD2500

Width: 750mm wide

Depth: 225mm deep (body)  
450mm deep (including heat shield)

Height: 1780mm high

### WD3000

Width: 1100mm wide

Depth: 410mm deep (body)  
550mm deep (including heat shield)

Height: 1600mm high

of the machine, making for a totally concealed plumbing system.

Vandalism and plumbing theft is controlled by only having the outlets protruding from the cabinet. Outlets are usually angled down to ensure contaminants (one hose fitting to another) do not settle in the plumbing.

Whilst 50mm/25mm dual outlets are the standard, some applications need only 25mm plumbing, i.e. boat wash down (boat ramps) or boat filling (marinas), motor home or caravan filling (information centres) or horse wash down (arenas).

## WD3000 SERIES

Designed for 80mm surface mounted plumbing with external RPZ. Contained within the housing are the flow meter, water valve and solenoid valve. Incoming plumbing can enter from the left or from the right side.

## CONSTRUCTION

All equipment is produced in stainless steel powder coated to the customer's choice of colours. Screw fastening throughout are of stainless steel.

Both machines use a time tested "top down" mounting system that provides maximum physical security whilst allowing ease of removal for relocation of equipment.

## APPLICATIONS

- **The distribution of water for a rural town, via tanker driver, user tank filling or for motor homes or caravans.**
- Truck wash down at abattoirs and sale yards.
- Weed seed control by vehicle wash down bays.
- Ship water tank filling.
- Boat filling at marinas.
- Boat wash down at boat ramps.
- Horse wash down at arenas.
- Small plane wash down at aerodromes.

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PTY LTD

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Sydney NSW 2100 Australia  
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Email [contact@abberfield.com.au](mailto:contact@abberfield.com.au)  
Website [www.abberfield.com.au](http://www.abberfield.com.au)

REVENUE COLLECTION PRODUCTS

# Company References

'The first unit was installed in August 2015, and has been performing smoothly since. Abberfield Industries was placed under very tight time pressures, and **fulfilled the brief, including design and development, admirably.**

'The end product has been a significant advancement on the preceding implementation, and **is a credit to Abberfield Industries' ability as a supplier.**

*Michael Kenyon, Programme Leader, Water Business and Customer Management,  
Logan City Council (water filling stations project)*

Full references and source details on application.



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