



PREPAID CARDS

REUSEABLE CARDS

NO COMMUNICATIONS

NO ACCOUNTING SETUP

AUTOMATED 24 HR. STATION

LOW CAPITAL COSTS

NO SYSTEM CARD LIMITS

NO CASH ON PREMISES

CURBSIDE COMPATIBLE

EASY INSTALLATION

PACKAGE STATIONS



SMARTVEND AUTOMATED WATER FILL STATIONS

**JOHLIN MEASUREMENT LTD,
1-888-933-8970**

SMARTVEND BULK WATER STATION OVERVIEW

The SmartVend Bulk Water Fill System is designed for a utility that wants a simple to operate and maintain system without the added expense of a communication network or does not want to incorporate the added customers into their utility accounting package.

The SmartVend System consists of the following components – Smart Console Programmer, Transaction Terminal, Smart Cards, Meter, Solenoid Valve and Back Flow Prevention.

SMART CONSOLE

The Smart Console Card programmer is located in the office. It is a small counter device that requires AC 120 power. The Smart Console programs the SmartCard with a dollar value. When a customer requests water, they are issued a card (Deposit or No Deposit)). The card is inserted in the Programmer and the dollar amount of water purchased is added to the card. This is a reusable card that can be programmed after the dollar amount has been spent. Optionally, an automatic reload station is available.



SMARTVEND TERMINAL

The SmartVend terminal is located at the Bulk Water Station Site. It is mounted on the exterior of the building in weatherproof housing. It is suitable for winter operation. The utility programs the SmartVend Terminal with a dollar value per pulse from the meter. For example, one pulse is equal \$.002 per gallon or liter. SmartVend will work with a variety of pulses and meter manufacturers.

METER

The meter can be any size depending on the flow rate and volume of water the utility required. The meter will have a dry contact pulse value that is suitable for the Transaction Terminal and the flow rate of the meter. Most manufactures meters are acceptable. Magnetic Flow Meters may also be incorporated.



SOLENOID VALVES

The Solenoid Valve will be sized for the flow rate required for the system. The solenoid will be a normally closed, energize to open, 110 Ac powered. If freezing is an issue in the standpipe a ½” drain solenoid valve can be added that is normally open, energize to close. This will drain the line when not in use.

BACK FLOW PREVENTION

The Back Flow Prevention is sized for the flow rate. Optional air brake on overhead discharge is available.



OPERATION

The customer inserts the card into the SmartVend Terminal. The display shows the dollar balance on the card. SmartVend request the “Volume” and the customer keys in the volume requested in liters or gallons and confirms the purchase. SmartVend ensures the volume keyed in does not exceed the balance on the Smart Card and opens the solenoid valve and water flows. As the water is flowing, the meter is pulsing back to the Terminal. The display on the SmartVend terminal counts up the volume. Once the requested volume is reached or the customer stops the flow, the terminal will deduct the amount of water taken from the card and instructs the customer to take the card. The ending balance is also displayed on the display prior to removing.

Continued

If the customer chooses to terminate the transaction prior to the keyed in volume being reached, the SmartVend will refund the remaining value onto the card. THE CUSTOMER IS NOT CHARGED FOR WATER NOT TAKEN.

Once the value on the card is low the customer can take the card to the office and purchase more water on it. The Smart Card can be reused multiple times.

SPECIAL FEATURES

TRANSACTION MEMORY STORAGE

All transactions are stored in memory. Transactions may be copied to a standard SD Card and inserted in a SD reader. Transaction open in excel format. Data includes SmartCard number, time and date of transaction, terminal id, dollar amount taken and SmartCard balance.

SHUTOFF VOLUME

SmartVend allow the utility to adjust the relay to close the solenoid valve prior to the volume keyed in. This allow the utility to account for slow closing valves. For example if a valve takes 10 seconds to close and 50 liters of water goes through prior to fully closing, the Smart Vend will begin to close 50 liters before the volume is reached.

SOLAR OPTIONS

SmartVend is a very low power 12 vdc unit which can be configured for Solar powered stations. Stations may be either stationary, or portable.

OPTIONAL ACCESSORIES

- Curbside Standalone Fill Station
- Overhead Discharge Towers
- Coin Integrated systems
- Stainless Steel Piping
- Air Brake on Overhead Discharge
- Multiple Size hose Outlet
- Custom Design
- Installation
- Sewage Dumping Stations



For additional information or quote

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