



# SmartVend

## Water Controller

solutions for water dispensing



Based in QI **SmartVend** technology the **Water Controller** is a payment terminal and valve control system for bulk water sales stations. Designed for self serve operation at unattended locations the controller combines ease of use with secure, reliable operation. The controller accepts QI stored value smart cards for payment so money is not stored in the payment terminal.

The QI **Water Controller** features a card acceptor, a user keypad and a backlit Liquid Crystal Display. Water pump management is quick and reliable. The **Water Controller** will validate a Cash Card and authorize the transaction in just a few seconds. It will then monitor the flow of fluid through the system, and cut off supply when the pre-paid amount has been dispensed.

### A Smart Investment for the Future

A QI smart card system eases the challenge of dispensing and collecting payment for bulk water. QI Systems' experience in water purchase installations allows a municipality or water authority to add reliable unattended facilities while maintaining accuracy and accountability. Smart card dependability means no cash handling problems or coin-related down-time.



The Smart Water Dispensing System includes not only the QI Water Control unit that controls the flow of the water to the customer, but operates in tandem with the QI Card Value Kiosk, where customers can purchase cards and reload value onto their cards. A dispensing kiosk will operate unattended on a 24-7 basis and provides a simple solution for municipalities to sell bulk water to a wide variety of customers. In addition to water purchase, QI also provides systems for waste water receiving and crude oil collection from wellhead storage facilities.

# Features

## Convenience

- Fast, easy payment.
- Convenient service at all hours appeals to today's consumers.
- Cards are more convenient to carry than cash.
- Automated payment reduces customer wait times.
- The customer always receives the amount of water they paid for.
- The **SmartVend** system completely eliminates the need for a dispenser attendant.
- Merchants never have to handle cash or change: funds are stored and transferred electronically.
- Water and Money auditing is fully automated, simplifying the accounting process.

## Affordability

- Cost incremental with functionality. You pay only for what you need.
- Cash handling costs are reduced.

## Security

- QI Water** accepts only electronic cash, so there's no chance of funds being stolen.
- QI Water** reduces the incentive for thieves and vandals to attack self serve terminals.
- QI Water** is ideal for machines in remote or low security areas.

## QI Water Control Specifications:

✓	Durable card reader
✓	Numeric touch pad for easy data entry and administration
✓	Back-lit LCD display for low light situations
✓	Emergency stop button
✓	Solid steel enclosure
✓	Operates on 110V A/C power

## Convenient Design:

✓	<i>The QI controller works with pulse type water meters. Different meters give very different numbers of pulses per gallon. With the QI controller, the meter input is adjustable to match the pulse rate of any meter.</i>
✓	<i>With the Water Controller, the site administrator can easily adjust the price per gallon. To allow for prices below 1 cent per gallon the price is specified in cents per 10 gallon increment</i>
✓	<i>Some valves, particularly diaphragm valves, require several seconds to close. The Water Controller allows the operator to compensate for valve closing time by commencing the shutoff a fixed number of gallons before the target value is dispensed.</i>
✓	<i>In conditions such as freezing temperatures, the stand pipe may be drained between transactions. The Water Controller can be set to allow the pipe to be refilled before the following transaction. This allows the dispenser to accurately bill the customer for the amount of water they received.</i>
✓	<i>The Water Controller contains a complete time-stamped transaction log, as well as an administrator accessible on-screen transaction summary for fast reconciliation.</i>
✓	Custom mounting geometries available

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