

# Hydro-Guard®

# S.M.A.R.T.

**Automatic Flushing System  
By TIME or RESIDUALS**

The Hydro-Guard® S.M.A.R.T.™ Flushing System is the ultimate automated flush management system. S.M.A.R.T. enabled flushing can be set to occur either by time based schedule or in response to real-time analysis of local water quality. What's more it allows two-way communication and remote flushing unit management via either a secure web portal or a secure interface with the end-user's existing SCADA via Modbus RTU protocol.

By way of this two-way communication, the utility can receive real-time updates from each Hydro-Guard® Unit in the distribution system equipped with the S.M.A.R.T. controller. It can be integrated with a residual analyzer and a variety of other water quality management devices. This integration will allow the Hydro-Guard S.M.A.R.T. Flushing System to flush only when the disinfectant residual drops below the parameters established by the end-user, as opposed to flushing on a set time based schedule. S.M.A.R.T. technology takes water conservation and cost management to a whole new level of potential savings.

As an added benefit, the time-based programming functionality that has always been one of the Hydro-Guard system's primary benefits has been incorporated into the S.M.A.R.T. flushing system. Now the end-user can have maximum control over the utility's flushing program on-site or at a remote monitoring location.

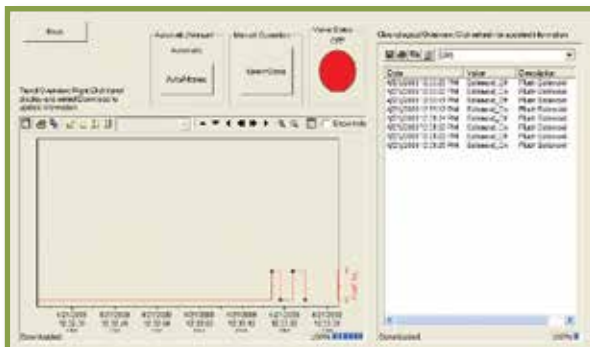
**Comply with EPA Stage II DBPR Standards while saving time and costs. Calculate your ROI using our on-line calculator at [www.Hydro-Guard.com](http://www.Hydro-Guard.com).**



By way of this two-way communication, the end-user can receive real-time update from the S.M.A.R.T. equipped Hydro-Guard unit.



Can be retrofit to most existing Hydro-Guard products



## Benefits of Flushing with a Hydro-Guard® S.M.A.R.T. Flushing System:

- ✓ Engineered for ease of installation, durability and minimum maintenance
- ✓ Currently available in 120 volt AC powered configurations with alternative power solutions coming soon
- ✓ Can be integrated with existing SCADA and residual analyzers
- ✓ Communication via UHF radio, Ethernet, Bluetooth® and cellular systems



**Orders and Information:  
(877) 864-8500  
[www.Hydro-Guard.com](http://www.Hydro-Guard.com)**

# Specifications

## Models

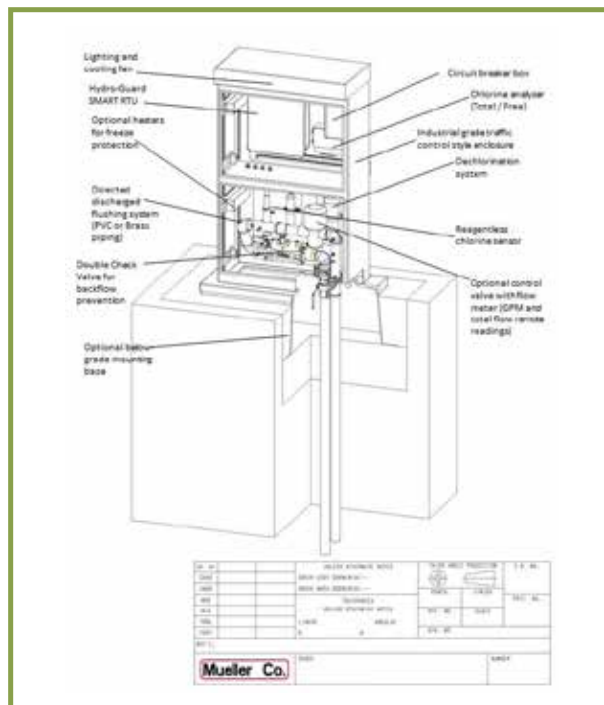
Model: Hydro-Guard S.M.A.R.T.  
 Dimensions: Model Specific  
 Shipping Weight: Model Specific

### Standard Features:

- Hydro-Guard® S.M.A.R.T.™ Controller
- Weather-proof protective enclosure
- Protective flexible conduit (50 ft.)
- Shielded wire (50 ft.)
- Required mounting system and weather-proof fittings
- Hydro-Guard Flushing System (model to be determined through client/Hydro-Guard consultation)

### Options and Accessories:

- 120 volt AC power (Alternative power solutions coming soon)
- Choice of ground fixed post mounted or mobile trailer mounted system
- Back-up memory card
- Ethernet cross-over cable
- Enclosure tamper alert system/notification
- Low wattage space heater for moderate climates
- High wattage space heater for cold climates
- Bluetooth® wireless access point
- Bluetooth® USB interface for portable computer devices
- Water flow detection
- Multiple water quality sensors



Hydro-Guard® S.M.A.R.T.™ HG-7 Unit



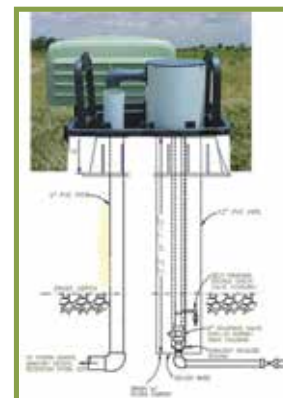
Hydro-Guard® S.M.A.R.T.™ HG-2 Unit with optional rock enclosure



Hydro-Guard® S.M.A.R.T.™ HG-3 Unit



Hydro-Guard® S.M.A.R.T.™ HG-5 Unit



Hydro-Guard® S.M.A.R.T.™ HG-4 Unit

(877) 864-8500 • [www.Hydro-Guard.com](http://www.Hydro-Guard.com)

[Sales@Hydro-Guard.com](mailto:Sales@Hydro-Guard.com)

Toll Free Customer Service and FAX (888) 277-4520

**Mueller Co.** Smart Move™