

Take Control.  
**ION**  
Controllers

Now available  
with optional  
factory installed  
Ethernet Module.



# Ion® Endeavor

## Smart Controller and Sensors

- Three model options
- First of a kind 115 or 230 volt standard plug in receptacle, dual pump run and alternating controller for residential and commercial applications
- Ion® sensors communicate with controller to provide controller based turn on level adjustment from 2.5" to 72" for optimal pump operation
- Track critical information through the panel based display, including switch failure, pump amp draw, water level, and more
- Wide range of communication options available



Patent No. 8,591,198 & 8,907,789 B2

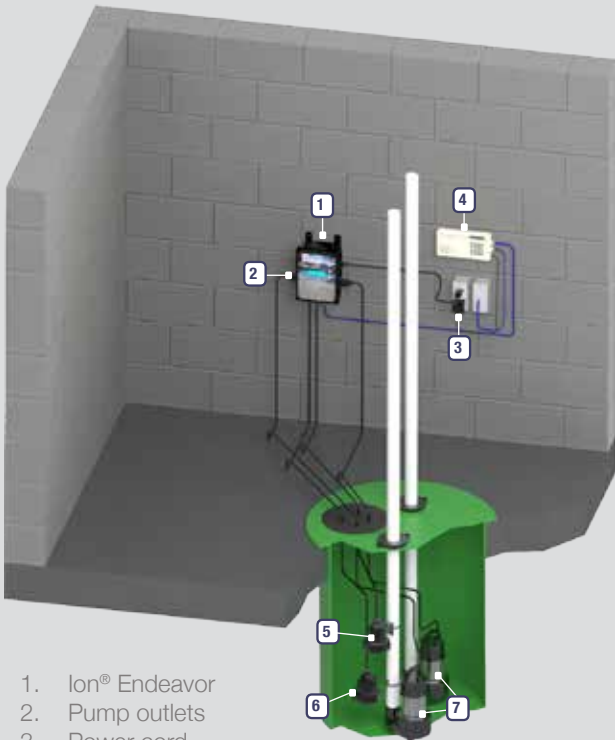


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# Ion® Endeavor

Smart Controller and Sensors

## Typical Installation Diagram



1. Ion® Endeavor
2. Pump outlets
3. Power cord
4. Dialer (optional)
5. High water sensor
6. Digital level sensor
7. Pumps (optional)

## Controller Options

	Endeavor Power Plug Configuration	Dedicated Supporting Wall Receptacle Needed
<b>Model 100-15</b> operates two (2) 120 VAC, single-phase pumps, up to 12 amps total	 115 V, 15 A	 115 V, 15 A
<b>Model 100-20</b> operates two (2) 120 VAC, single-phase pumps, up to 16 amps total	 115 V, 20 A	 115 V, 20 A
<b>Model 200-15</b> operates two (2) 208-240 VAC single-phase pumps, up to 12 amps total	 230 V, 15 A	 230 V, 15 A

## System Specifications

- Featuring Ion® digital level sensors
  - First of its kind solid-state sensing technology with no moving parts
  - Multipoint sealing mechanism that supersedes single surface seals
  - Rated at 2 million cycles, it will last 4 times longer than a standard pump switch
- Simultaneously operates two (2) single-phase plug in pumps together when required
- Automatic pump alternation based on duty cycle and/or pump availability
- Clean & safe operation
- Microprocessor based process controls continually monitor system
- Dry digital contact for common alarm, allows remote monitoring
- Metropolitan's variety of optional com-devices allow many communications possibilities:
  - Ethernet Module: system status via web page and email or text message alerts
  - Ion Gateway®: Cellular based unit sends email or text message alerts
  - Telephone Dialer: Phone line unit sends voice message alerts
- 3 year warranty