Pulsafeeder Expertise
Technology is the key to delivering responsible products to the markets that we serve. Leading the way in the development of metering technologies, Pulsafeeder continues to set the standard for accuracy, reliability and safety. Innovation is another hallmark of Pulsafeeder. Helping customers find a new approach to an old problem is what we do best.

Model Specific QR Code
Pulsafeeder assists everyone in the field with information for THAT SPECIFIC PRODUCT, quickly and easily. No dedicated app needed. Simply use your QR Reader on your smart phone or tablet and scan the QR Code located on the Pulsafeeder product label, either Pump or Controller.

- Identify - Model Number, Serial number, KOPkit (Repair Kit)
- View - Quickly find product information such as parts list, IOM, tech sheet and more
- Contact - Call or email Tech Support immediately to assist you
- Email - Send this information to yourself or someone else, to save or even view later

Controller Specifications
- Enclosure: NEMA 4X / IP65
- Dimensions: 243.3 x 185 x 132 mm (9.58 x 7.25 x 5.20in)
- Power Supply: 100-240VAC ±10% 5A, 50/60hz
- Control Output: Prewired relay - 5A max; Dry contact - 1A per relay
- Display: LCD

Standard Sensor Specifications
- Max. Temp: 200°C (392°F)
- Max. Pressure: 17 Bar (250 psi)
- Saturated Steam Max.: 14.4 Bar (210 psi)
- Conductivity Range: 0 to 20,000 µS/cm
- Cell Constant and TC: 1.0 PT-1000 RTD
- Wetted Materials: 316 SS and PEEK

Typical Applications
- Comfort Heat Process
- Industrial Boilers

Input and Output Functionality

<table>
<thead>
<tr>
<th>System Outputs</th>
<th>Blown Down</th>
<th>Timer 1</th>
<th>Timer 2</th>
<th>Timer 3</th>
<th>Alarm/Timer 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Type</td>
<td>Limit</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>26 Day</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td></td>
<td>Pulse</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Percent</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Cycle</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>System Alarm</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programmable Inputs</th>
<th>Input 1</th>
<th>Input 2</th>
<th>Input 3</th>
<th>Input 4</th>
<th>Input 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum Level</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Dry Contact Water meter</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Hall effect</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interlock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
**MicroVision Boiler Controller**

The MicroVision Boiler Controller delivers comprehensive boiler water control with ‘plug & play’ simplicity, at an outstanding value. This latest addition to the MicroVision family of controllers is configured specifically for boiler water control, and utilizes intuitive software which provides simple set-up, while providing state of the art maintenance of the water in your boiler. Features of this device include a reliable temperature compensated conductivity probe, 5 output relays with selectable timers, scalable 4-20mA output to report conductivity, hall-effect and pulse water meter inputs, digital drum levels and a boiler interlock input.

**Boiler Controller Technology**

Pulsafeeder’s line of Boiler Controllers are designed for simplicity and reliability. Offering affordable, high performance Boiler Controllers that are easy to specify and easy to use. Pulsafeeder Boiler Controllers offer versatile solutions to your fluid control problems. With selectable sampling modes, powered relays, selectable timers, and inputs to fit your needs. Pulsafeeder’s MicroVision Boiler controller increases energy efficiency, reduces water consumption, reduces manpower and optimizes chemical utilization.
Features & Benefits

Simple Programming
- Factory preset to operate in timed sample mode right out of the box
- Intuitive menus make program alterations easy and understandable

Easy Installation and Easy to Use
- Pre-wired and conduit connections options make easy installation
- Large graphical display with status screen for instant access to system information
- LED function indicators
- Touch pad program keys provide clear and precise system information

Reliable Conductivity Probe
- Standard conductivity probe is rugged and reliable
- Temperature compensated for accurate readings from 0-20,000 µS

Selectable Sampling Modes
- Continuous
- Timed Sample
- Sample & Hold

5 Output Relays
- 1 powered relay for motorized ball valves or solenoid blowdown valves
- 3 powered relays for chemical metering pumps
- 1 dry contact relay for remote alarm
**Features & Benefits**

### Selectable Timers
- Pulse
- Limit
- Percent
- 28 day
- Cycle

### 4-20mA Output
- Isolated
- Scalable

### 5 Digital Inputs
- 5 digital inputs total
- Drum level
- Dry contact water meter
- Hall effect
- Boiler interlock

### Heavy Duty Enclosure
- NEMA 4X rated
- Easy Installation

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**MicroVision Boiler Selection Guide**

<table>
<thead>
<tr>
<th>PRODUCT DESIGNATOR Position 1 thru 4</th>
<th>MVBX</th>
<th>= MicroVision Boiler Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>REVIEW AND WIRING Position 5</td>
<td>P</td>
<td>= Prewired with pigtails (115 VAC only)</td>
</tr>
<tr>
<td>ENCLOSURE OPTIONS Position 6</td>
<td>H</td>
<td>= Heavy Duty Enclosure</td>
</tr>
<tr>
<td>SYSTEM OPTIONS ASSEMBLED Position 7</td>
<td>X</td>
<td>= None</td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>= 1/2&quot; Solenoid valve, one 1&quot; orifice union w/4 plates (Timed Sample) 100 PSI MAX</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>= 1/2&quot; Motorized ball valve one 1/2&quot; flow throttling valve (Timed Sample) 250 PSI MAX</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>= 1/2&quot; Motorized ball valve one 1&quot; orifice union w/4 plates (Timed Sample) 250 PSI MAX</td>
</tr>
<tr>
<td></td>
<td>D</td>
<td>= 3/4&quot; Motorized ball valve, one 3/4&quot; throttling valve, one 1/2&quot; throttling valve (Continuous Sample) 250 PSI MAX</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>= 3/4&quot; Motorized ball valve, two 1&quot; orifice union w/4 plates (Continuous Sample) 250 PSI MAX</td>
</tr>
<tr>
<td></td>
<td>F</td>
<td>= High Pressure Flow Assembly (250 PSI) for cooling tower applications</td>
</tr>
<tr>
<td>SENSOR OPTIONS Position 8</td>
<td>X</td>
<td>= No Sensor Provided</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>= Contact Electrode, 250 PSI Max (210 PSI for steam) 392° F Max</td>
</tr>
<tr>
<td>CABLE LENGTH Position 9 thru 11</td>
<td>000</td>
<td>= No Cable Supplied</td>
</tr>
<tr>
<td></td>
<td>010</td>
<td>= 10 Feet of sensor cable</td>
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<tr>
<td></td>
<td>025</td>
<td>= 25 Feet of sensor cable</td>
</tr>
<tr>
<td></td>
<td>050</td>
<td>= 50 Feet of sensor cable</td>
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<tr>
<td></td>
<td>075</td>
<td>= 75 Feet of sensor cable</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>= 100 Feet of sensor cable</td>
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<tr>
<td></td>
<td>150</td>
<td>= 150 Feet of sensor cable</td>
</tr>
<tr>
<td>SUFFIX CODES Position 12 thru 14</td>
<td>XXX</td>
<td>= Standard Unit</td>
</tr>
</tbody>
</table>

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*patron.com*
System Options

Timed Sample
Optional Valves available
- 1/2” Solenoid Valve
  (1) 1” Orifice Union with 4 plates
- 1/2” Motorized Ball Valve
  (1) 1/2” flow throttling valve
- 1/2” Motorized Ball Valve
  (1) 1” Orifice Union with 4 plates

Continuous Sample
Optional Valves available
- 3/4” Motorized Ball Valve,
  (1) 3/4” throttling valve,
  (1) 1/2” throttling valve
- 3/4” Motorized Ball Valve
  (2) 1” Orifice Union with 4 plates

Flow Assembly
- High Pressure Flow Assembly used for cooling tower applications
- 250 psi max
MicroVision Boiler Typical Installation

Typical Installation Includes:
- Ball Valve
- Throttling Valve
- Orifice Union and Plates
- Cross
All Available from Pulsafeeder!
Parts & Accessories

PULSAtron Series Electronic Metering Pumps
The PULSAtron Series A Plus and E Plus electronic metering pumps can be used with the MicroVision and MicroTrac Series controller for timer based chemical metering.

Valve Packages - System Options
Solenoid Valves are bronze body with stainless steel pilot and valves; Motorized Ball Valves are carbon steel body with 316 stainless steel ball and stem; Throttling Valves are carbon steel body and valve; and Orifice Unions are carbon steel union with stainless steel plates.

Contacting Head Water Meters Multi-Jet Meters
3/4 in. to 2 in., are designed for use in conjunction with a pulse timer to proportionally control pumps, valves etc. The Multi-Jet chamber of the water meter assures accuracy over a wide range of flows with low head loss.

Flow Control Valves - Boiler Applications
Flow control valves maintain sufficient back pressure in boiler blowdown lines in order to prevent flashing and to ensure adequate blowdown rates. The orifice union includes four plates, 1/16”, 1/8”, 1/4” and a 5/16”. Flow control valves include an indexed position indicator.

Coupon Racks
Designed to provide reliable, convenient side stream monitoring using ASTM standard coupons. These rugged systems can be configured for up to six monitoring stations.

Contact your local Pulsafeeder Distributor or Pulsafeeder Technical Services at 800-333-6677

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