

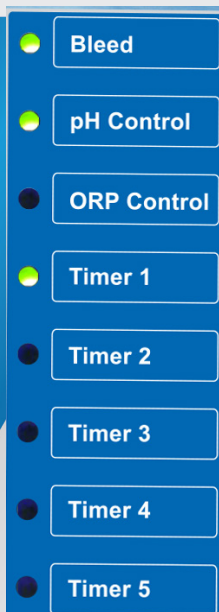
# **PULSAFEEDER®**

MicroVision<sup>EX</sup> is a microprocessor-based conductivity, pH, and ORP controller, with the features and functions you need for accurate monitoring and control of cooling tower water that won't break your budget!

## Features

- Toroidal conductivity sensor.
- One-point calibration.
- Large easy to read color display.
- Lockable front cover.
- Multiple level security codes.
- Up to 10 digital inputs.
- Optional 4-20 mA analog outputs and inputs.
- Dry contact alarm output.
- Battery backup.
- Optional Make-up conductivity control with a toroidal sensor.
- USB data logging is standard:
  - Up to 2 years of data logging.
  - Upload/Download program settings.
  - Upgrades to the Operating System.
- Optional PULSAlink cloud based communications.

## Controls



### Bleed

- Solenoid valves, or motorized ball valves

### pH and ORP Control

- Pumps, solenoid valves, or motorized ball valves

### Up to 6 Selectable Timer Relays

- Limit timer
- Percent timer
- % post bleed with limit timer
- Water meter pulse timer
- Biocide control timer, with pre-bleed, lockout, and conductivity minimum
- 4-20mA input, pH, or ORP set point control
- Alarm output

## Operating Benefits

- Easy installation.
- Easy programming based on MicroVision simplicity.
- Toroidal conductivity probe.
  - No need to recalibrate conductivity probe.
  - Reduced potential for fouling.
- Two year warranty.
- Wide control range: 0 – 9,999  $\mu\text{S}/\text{cm}$ .
- Compact size saves space and reduces freight cost.



## Aftermarket

- Solenoids
- Motorized Ball Valves
- Water Meters
- Corrosion Coupon Racks
- Metering Pumps (PULSAtron, XP Series)



**MicroVision<sup>EX</sup>**  
**Cooling Tower Controller**

| Model   | Control Parameters                | Relays | Timers | Probes | USB | 4-20mA Inputs | 4-20mA Outputs | Digital Inputs | PULSAlink |
|---------|-----------------------------------|--------|--------|--------|-----|---------------|----------------|----------------|-----------|
| MVECXXX | Conductivity                      | 4      | 3      | 1      | √   | 0 to 1        | 0 to 1         | 5              | Optional  |
| MVEC5XX | Conductivity                      | 5      | 4      | 1      | √   | 0 to 1        | 0 to 1         | 5              | Optional  |
| MVECPXX | Conductivity and pH               | 8      | 6      | 2      | √   | 0 to 2        | 0 to 4         | 10             | √         |
| MVECOXX | Conductivity and ORP              | 8      | 6      | 2      | √   | 0 to 2        | 0 to 4         | 10             | √         |
| MVECP0X | Conductivity, pH and ORP          | 8      | 5      | 3      | √   | 0 to 2        | 0 to 4         | 10             | √         |
| MVECPOM | Conductivity, Make-Up, pH and ORP | 8      | 5      | 4      | √   | 0 to 2        | 0 to 4         | 10             | √         |

### Engineering Data Digital Inputs

| Digital Inputs | Input 1     | Inputs 2 to 4 | Input 5     | Inputs 6 & 7 | Inputs 8, 9 and 10 |
|----------------|-------------|---------------|-------------|--------------|--------------------|
| Function       | Flow Switch | Drum Level    | Water Meter | Water Meter  | Water Meter        |
| Dry Contact    | √           | √             | √           | √            | √                  |
| Hall Effect    |             |               | √           |              | √                  |

### Engineering Data Controller

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Enclosure:         | IP65                                             |
| Temperature Range: | 122°F / 50°C                                     |
| Power Supply:      | 100 VAC – 240 VAC / 50/60Hz / 8A                 |
| Control Output:    | 8 Amps max                                       |
| Display:           | Multicolor graphical LCD                         |
| Set Point Range:   | 0 - 9,999 µS/cm<br>0 – 14 pH<br>-2000 - + 2000mV |
| Set Point Types:   | Rising or Falling                                |
| Languages:         | English<br>Spanish<br>Portuguese                 |

### Engineering Data Sensor

|                                 |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Maximum Temperature:            | 122°F / 50°C                                                    |
| Flow Switch Activate Flow Rate: | Approx. 1 GPM / 3.78 LPM                                        |
| Conductivity Temp. Comp. Range: | 32°F - 122°F / 0°C - 50°C                                       |
| Maximum Pressure:               | 125 PSI (8.6 BAR)                                               |
| Sensor Type:                    | Toroidal Conductivity<br>Standard industrial pH and ORP sensors |

### MicroVision EX Panel Systems



Pulsafeeder's MicroVision Systems are designed to provide complete and easy to install solutions for cooling tower applications.

- Rugged custom fabricated assemblies.
- Turn-key simplicity.
- Industrial-grade durability.
- Mounting locations for up to three pumps.
- Factory assembled and hydrostatically tested.

### Dimensions

