



CONTROLLER CAPABILITIES

SIMPLE, RELIABLE AND SECURE.

WORRY LESS AND DO MORE WITH **PULSAFEEDER CONTROLLERS**

Pulsafeeder simplifies advanced controller technology.

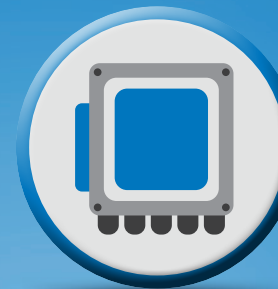
Pulsafeeder makes life simpler for water treaters. Our advanced controller is easy to install, program and operate because of **proven MicroVision software** that utilizes an intuitive user interface. Accurate measurement is achieved by our **toroidal probe**, which is factory-calibrated and maintenance-free. **PULSAlink cloud-based communication protocol** delivers convenience and the highest security. The Pulsafeeder line of controllers are ideal for all cooling tower applications including comfort cooling, industrial cooling, rinse, industrial process and also wastewater applications.

Water treaters can select from multiple control configurations and probe inputs – with specific models utilizing all available probe options, including Conductivity (Toroidal), pH, ORP and PTSA.

Controller options include

Conductivity Control **Conductivity and pH** **Conductivity and ORP** **Conductivity, pH and ORP**
Conductivity, pH, ORP and PTSA **Boiler Control** **Timer Control**

Pulsafeeder's line of controllers, along with the support of Pulsafeeder sales and technical representatives, ensure water treaters of **quick troubleshooting**, freeing up more time to serve their customers. **Maintain process control, reduce costs and limit downtime.**



CONTROLLERS MOUNTED AND WIRED MAKES INSTALLATION QUICK AND EASY.



ADVANCED FEATURES AND FUNCTIONS TO BETTER SERVE YOUR CUSTOMERS.

As a longtime recognized leader in fluids handling technology, Pulsafeeder sets the standard for the development of controller technologies through our proven MicroVision and MicroVision EX control platforms. Rely on our controllers for features that allow you to better serve your customers' specific needs – all while making your job easier.



MicroVision EX

COOLING TOWER CONDUCTIVITY, PH, PTSA & ORP CONTROLLER.

- Large LCD screen for programming simplicity
- Maintenance free toroidal conductivity
- Bleed, pH & ORP control
- PTSA on a 4-20mA input
- Up to Six programmable timers
- Two 4-20mA inputs
- Four 4-20mA outputs
- USB data logging and cloning
- Alarm dry contact
- High pressure models
- PULSAlink cloud communications
- Modbus



MicroVision

COOLING TOWER CONDUCTIVITY CONTROLLER.

- Graphical display
- Maintenance free toroidal conductivity
- Bleed control
- One inhibitor timer
- Dual biocide timers
- Three Timers
- Standard 4-20mA output
- Alarm dry contact
- Easy programming



MicroTrac

COOLING TOWER CONDUCTIVITY CONTROLLER.

- LCD display
- Maintenance free toroidal conductivity
- Bleed control
- One selectable timer
- Easy programming
- Outstanding value



MicroVision Boiler

BOILER CONDUCTIVITY CONTROLLER.

- Graphical display
- Boiler conductivity control
- Three Timers
- Standard 4-20mA output
- Alarm dry contact
- Condensate models
- Easy programming



MicroVision Timer

COOLING TOWER TIMER CONTROLLER.

- Graphical display
- Four powered timers
- One dry contact timer
- Easy programming
- Add timers to existing systems

MicroTrac



MicroVision



MicroVision Timer



MicroVision Boiler



MicroVision EX



		MicroTrac	MicroVision	MicroVision Boiler	MicroVision Timer	MicroVision EX
Control	Bleed					
	pH					
	ORP					
	Boiler Control					
Probe	Maintenance Free Torroidal Conductivity					
	PTSA (4-20 mA input)					
Display	Graphical Display					
	Color LCD					
Programming	Customizable Display					
	Install Wizard					
	Statistics Screen					
Timers	Number of Timers	1	3	3	4	Up to 6
	Limit Timer					
	Percent Timer					
	% Post Bleed With Limit Timer					
	Water Meter Pulse Timer					
	Alarm Output					
	Biocide Control Timer					
	4-20 Input, Conductivity, pH, or ORP Set Point Control					
Digital Inputs	Number of Digital Inputs	2	5	5	5	Up to 10
	Dry Contact					
	Hall Effect					
	Drum Level					
	Flow					
Relays	Number of Powered Relays	2	4	4	4	8
	Alarm Interlock					
	Inhibitor feed Bio Tracking interlock					
	Dry Contact Alarm					
Communications	PULSAlink Cloud Communication					
	Data Logging					
	Reporting & Graphing					
	USB Configuration Cloning					
	Modbus					
Options	Condensate					
	Corrosion Sensor					
	High Pressure Models					
	4-20 I/O Maximum		out	out		4 out / 2 in

TOROIDAL PROBE MEANS MAINTENANCE FREE, RELIABILITY AND SAVINGS.



TOROIDAL CONDUCTIVITY PROBE BRINGS SUPERIOR RELIABILITY AND SAVINGS.

- Factory-calibrated and maintenance-free for the life of the probe
- No annual replacement needed
- Not susceptible to sensor fouling, which eliminates cleaning downtime and erroneous conductivity readings
- No exposed electrodes
- No need to complete routine calibrations, which saves time and money and reduces downtime for your customers

INNOVATIVE TOROIDAL SENSOR TECHNOLOGY.

MicroVision family of controllers features the toroidal conductivity sensor, factory-calibrated for the life of the probe to eliminate routine calibrations and save you valuable service time and money. Because the sensor features no exposed electrodes, cleaning, downtime and erroneous conductivity readings are eliminated when installed according to the manufacturer's instructions.



PULSALINK COMMUNICATIONS SAVES TIME AND OFFERS PEACE OF MIND.

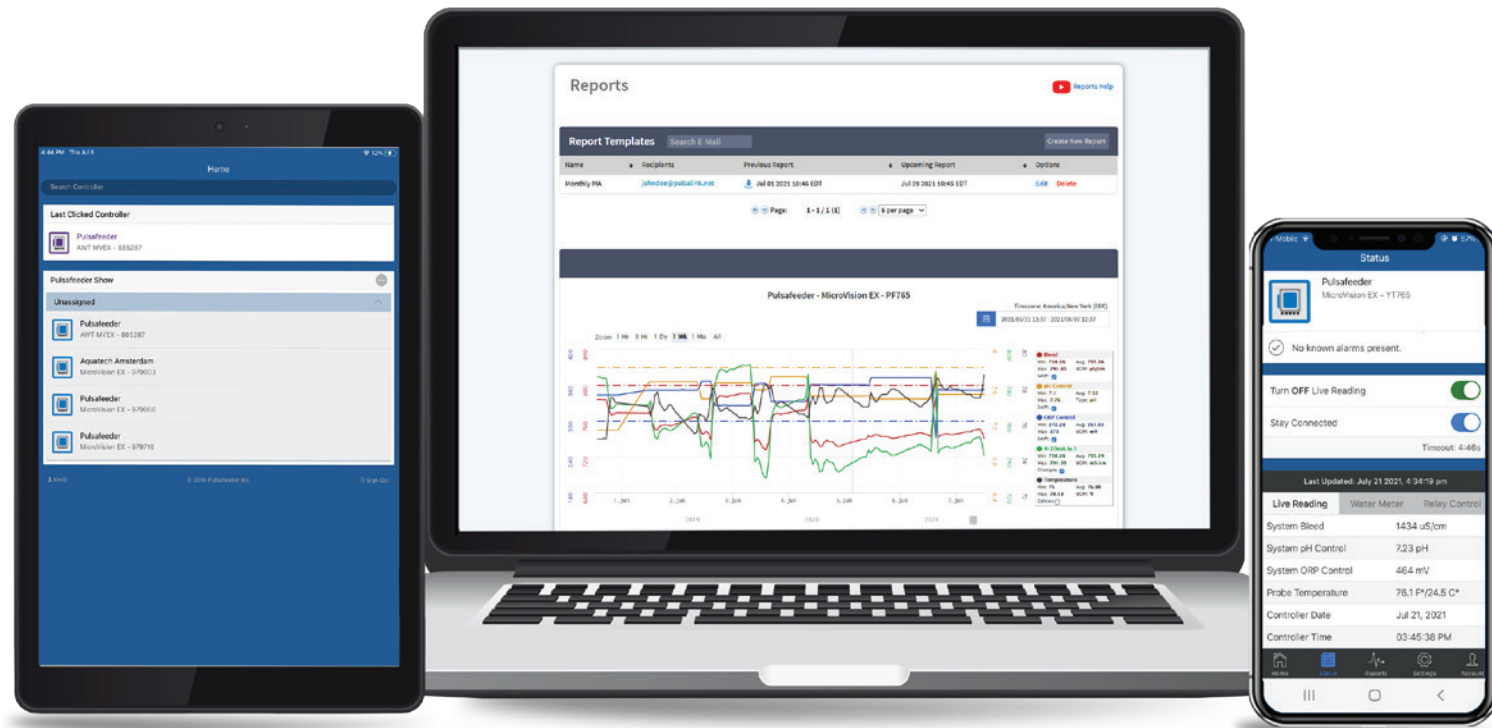
- Cloud storage
- Military-grade encryption AES 256
- Easy navigation
- Fast data retrieval
- Multi-level user access



PULSALINK PUTS YOU IN CONTROL ANYTIME, ANYWHERE.

Exclusive PULSAlink communication delivers cloud-based, secure mobile access to your MicroVision EX controllers. Data is stored safely on the cloud, and AES 256-bit military-grade encryption provides unsurpassed security. Get easy-to-use, interactive reporting and graphing tools – plus quick access to settings and notifications – right from your mobile device. This level of connectivity enables you to monitor and make adjustments anytime, from anywhere.

The PULSAlink app gives water treaters easier access through streamlined navigation, putting vital information at your fingertips anytime, anywhere.



PULSALINK COMMUNICATIONS IS CONVENIENT AND SECURE.

Save time and money by accessing your MicroVision EX controllers without having to make the drive to site locations. MicroVision EX delivers the cloud-based communications capabilities of PULSALink, leveraging military-grade AES 256-bit encryption to ensure the highest data security. Now it's easy to provide your customers with the peace of mind they deserve, while you monitor and make needed adjustments anytime, from anywhere.



EASY ACCESS ON THE GO.

PULSALink communications enables you to use your mobile phone, tablet or computer to access your controller anytime from anywhere — putting vital information at your fingertips. The PULSALink app gives water treaters easier access than the desktop version by offering more streamlined navigation.

LIVE READINGS

View and monitor cooling tower readings anytime, anywhere using any device with an internet connection.

CHANGE SETTINGS

MicroVision EX Touch allows you to quickly change system settings remotely.

EMAIL NOTIFICATIONS

Configure alerts for alarm notifications and live readings to be emailed to any necessary staff.

REPORTS

Download and create reports without having to be in front of your controller.



CUSTOMIZATION AT YOUR FINGERTIPS.

Customizable names for relays, water meters and inputs, synced to Controller, PULSALink website, App iOS/Android, and reports. You deserve reporting capability that lets you do your job quickly and accurately, so you can get more done. And now you have it. PULSALink doesn't require you to refresh the report to change test parameters. At any time, you can simply drag all parameters onto one screen. With PULSALink, reporting has never been easier:

- Report page automatically pulls up past week's data
- Toggle from default report page to specific time periods and test output parameters
- Compatible with eService Report
- Unsurpassed reporting and graphing
- No need to enter individual dates and variables to develop graphs
- Enhanced charting capabilities
- Robust data logging capabilities



YOUR SECURITY IS A LOCK.

PULSALink offers centralized data storage and management for superior control of your equipment. Should your controller ever be offline, your data is safe and accessible. Anyone attempting to access the PULSALink website will need a login password, which is only generated by Pulsafeeder or your administrator.

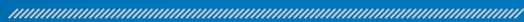
MicroVision EX and PULSALink are supported by the highest encryption level in the industry:

- Prevents unauthorized manipulation of controller
- Prevents unauthorized data access
- Connects directly to the Internet without the need of an additional modem
- Doesn't require the use of ports that may be affected by a firewall

Communications with data logging and reporting has become very important in the fight against Legionella. Timely response is vital. MicroVision EX controllers with PULSALink lets you quickly access your controllers without having to waste time driving to site locations.

COOLING TOWER CONTROLLERS							MicroVision EX
Conductivity Control							
Model Number	Probe Style	Flow Switch	Programmable Timers	Panel / Pump Mount	Digital Inputs	PULSALink and Smart Phone App Compatible	
No Panel							
MVECXXPX-XXX-XXX	Torodial	None	3	None	6	No	
MVECXXPX-XXX-CZXXX	Torodial	None	3	None	6	No	
MVECXXPF-XXX-XXX	Torodial		3	None	6	No	
MVECXXPF-XXX-CZXXX	Torodial		3	None	6	No	
MVEC8XXPX-XXX-XXX	Torodial, Field upgradable to pH & ORP models	None	3	None	10	Yes	
MVEC8XXPF-XXX-XXX	Torodial, Field upgradable to pH & ORP models		3	None	10	Yes	
Panel / No Pump Mounts							
MVECXXPA-XXX-XXX	Torodial		3	Yes / No	6	No	
MVECXXPA-XXX-CZXXX	Torodial		3	Yes / No	6	No	
MVEC5XXPA-XXX-XXX	Torodial		4	Yes / No	6	No	
MVEC5XXPA-XXX-CZXXX	Torodial		4	Yes / No	6	No	
MVECXXPA-EXX-XXX	Torodial		3	Yes / No	6	Included	
MVECXXPA-EXX-CZXXX	Torodial		3	Yes / No	6	Included	
MVECXXPA-EPX-XXX	Torodial, PYXIS (PTSA)		2	Yes / No	6	Included	
MVECXXPA-MXX-XXX	Torodial		3	Yes / No	6	Included/Modbus Compatibility	
Panel / 3 Pump Mounts							
MVECXXPD-XXX-XXX	Torodial		3	Yes / Yes - 3	6	No	
MVECXXPD-EXX-XXX	Torodial		3	Yes / Yes - 3	6	Included	
MVECXXPD-EQX-XXX	Torodial, PYXIS ready		3	Yes / Yes - 3	6	Included	
Conductivity and pH							
Model Number	Probe Style	Flow Switch	Programmable Timers	Panel / Pump Mount	Digital Inputs	PULSALink and Smart Phone App Compatible	
No Panel							
MVECPXXPF-XXX-XXX	Torodial, pH		6	None	10	Order: ACT-PULSALINK	
MVECPXXPF-XXX-CZXXX	Torodial, pH		6	None	10	Order: ACT-PULSALINK	
Panel / No Pump Mounts							
MVECPXXPA-XXX-XXX	Torodial, pH		6	Yes / No	10	Order: ACT-PULSALINK	
MVECPXXPA-XXX-CZXXX	Torodial, pH		6	Yes / No	10	Order: ACT-PULSALINK	
MVECPXXPA-EXX-XXX	Torodial, pH		6	Yes / No	10	Included	
Panel / 3 Pump Mounts							
MVECPXXPD-EXX-XXX	Torodial, pH		6	Yes / Yes - 3	10	Included	
Conductivity and ORP							
Model Number	Probe Style	Flow Switch	Programmable Timers	Panel / Pump Mount	Digital Inputs	PULSALink and Smart Phone App Compatible	
No Panel							
MVECOXPF-XXX-XXX	Torodial, ORP		6	None	10	Order: ACT-PULSALINK	
Panel / No Pump Mounts							
MVECOXPA-EXX-XXX	Torodial, ORP		6	Yes / No	10	Included	
MVECOXPA-EPX-XXX	Torodial, ORP, PYXIS (PTSA)		5	Yes / No	10	Included	
Panel / 3 Pump Mounts							
MVECOXPD-EPX-XXX	Torodial, ORP, PYXIS (PTSA)		5	Yes / Yes - 3	10	Included	
Conductivity, pH and ORP							
Model Number	Probe Style	Flow Switch	Programmable Timers	Panel / Pump Mount	Digital Inputs	PULSALink and Smart Phone App Compatible	
No Panel							
MVECOXPF-XXX-XXX	Torodial, pH, ORP		5	None	10	Order: ACT-PULSALINK	
MVECOXPF-XXX-CZXXX	Torodial, pH, ORP		5	None	10	Order: ACT-PULSALINK	
Panel / No Pump Mounts							
MVECOXPA-XXX-CZXXX	Torodial, pH, ORP		5	Yes / No	10	Order: ACT-PULSALINK	
MVECOXPA-EXX-XXX	Torodial, pH, ORP		5	Yes / No	10	Included	
MVECOXPA-EPX-XXX	Torodial, pH, ORP, PYXIS (PTSA)		4	Yes / No	10	Included	
MVECOXPH-EXX-XXX	High Pressure Conductivity, pH, ORP		5	Yes / No	10	Included	
MVECOXPA-VXX-XXX	Torodial, pH, ORP		5	Yes / No	10	Included & Modem Millie	
Panel / 3 Pump Mounts							
MVECOXPD-EXX-XXX	Torodial, pH, ORP		5	Yes / Yes - 3	10	Included	

COOLING TOWER CONTROLLERS				MicroVision
Model Number	Voltage	Power Wiring	Panels	
MVS1PA-XXX	115V	Prewired w/ pigtails	Standard Panel & Flow Assembly	
MVS1PA-CZXXX	230V	Conduit	Standard Panel & Flow Assembly	
MVS1PD-XXX	115V	Prewired w/ pigtails	Panel & Flow Assy, 3 Pump Mount, strainer, sensor tee, 3 inj tees & rails	
MVS1PD-CZXXX	230V	Conduit	Panel & Flow Assy, 3 Pump Mount, strainer, sensor tee, 3 inj tees & rails	
MVS1PF-XXX	115V	Prewired w/ pigtails	Flow assembly, No Panel	
MVS1PF-CZXXX	230V	Conduit	Flow assembly, No Panel	
MVS1PX-XXX	115V	Prewired w/ pigtails	No Panel and No Flow assembly	
MVS1XX-XXX	115V	Conduit	No Panel and No Flow assembly	
MVS1XX-CZXXX	230V	Conduit	No Panel and No Flow assembly	
COOLING TOWER CONTROLLERS				MicroTrac
Model Number	Voltage	Relay & Power Wiring	Sensor Tee	Flow Switch
MTC1LTA-XXX	115V	Liquid-Tight	Yes	Standard Panel & Flow Assembly
MTC1LTA-CZXXX	230V	Liquid-Tight	Yes	Standard Panel & Flow Assembly
MTC1LTF-XXX	115V	Liquid-Tight	Yes	Flow Switch with 15' cable
MTC1LTF-CZXXX	230V	Liquid-Tight	Yes	Flow Switch with 15' cable
MTC1LTX-XXX	115V	Liquid-Tight	Yes	Standard (no flow switch)
MTC1LTX-CZXXX	230V	Liquid-Tight	Yes	Standard (no flow switch)
MTC1PTA-XXX	115V	Prewired w/ pigtails	Yes	Standard Panel & Flow Assembly
MTC1PTF-XXX	115V	Prewired w/ pigtails	Yes	Flow Switch with 15' cable
MTC1PTL-XXX	115V	Prewired w/ pigtails	Yes	Standard Flow Assembly (no panel)
MTC1PTX-XXX	115V	Prewired w/ pigtails	Yes	Standard (no flow switch)
MTC1XTF-XXX	115V	Prewired & Liquid-Tight	Yes	Flow Switch with 15' cable
MTC1XTX-XXX	115V	Prewired & Liquid-Tight	Yes	Standard (no flow switch)
BOILER ONTROLLERS				MicroVision Boiler
Model Number	Power Wiring	System Options	Sensor	Cable Length
MVBXCHAS010-XXX	Conduit connections	100 psi max.-Timed Sample-Solenoid vlv, orifice union w/ plates	Contact Electrode	10 feet
MVBXCHXS010-XXX	Conduit connections	None	Contact Electrode	10 feet
MVBXCHXS010-CZXXX	Conduit connections; 230V	None	Contact Electrode	10 feet
MVBXCHXH010-XXX	Conduit connections	None	4420F / 375 psi - H.T. & Press.	10 feet
MVBXCHR010-XXX	Conduit connections	None	3/4" Short style sensor & tee	10 feet
MVBXCHXS025-XXX	Conduit connections	None	Contact Electrode	25 feet
MVBXCHXS025-CZXXX	Conduit connections; 230V	None	Contact Electrode	25 feet
MVBXCHXS050-XXX	Conduit connections	None	Contact Electrode	50 feet
MVBXCHXS075-XXX	Conduit connections	None	Contact Electrode	75 feet
MVBXCHXS075-CZXXX	Conduit connections, 230V	None	Contact Electrode	75 feet
MVBXPHBS025-XXX	Prewired with pigtails	250 psi max.-Timed Sample-Motorized vlv, flow throttling vlv	Contact Electrode	25 feet
MVBXPHXH010-XXX	Prewired with pigtails	None	4420F / 375 psi - H.T. & Press.	10 feet
MVBXPHXR010-XXX	Prewired with pigtails	None	3/4" Short style sensor & tee	10 feet
MVBXPHXS010-XXX	Prewired with pigtails	None	Contact Electrode	10 feet
MVBXPHXS025-XXX	Prewired with pigtails	None	Contact Electrode	25 feet
MVBXPHXS050-XXX	Prewired with pigtails	None	Contact Electrode	50 feet
MVBXPHXS150-XXX	Prewired with pigtails	None	Contact Electrode	150 feet
CONDENSATE CONTROLLERS				MicroVision Condensate
Model Number	Power Wiring	System Options	Sensor	Cable Length
MVBXCHXC025-XXX	Conduit connections	None	Condensate - 0 to 20 µS/cm	25 feet
MVBXCHXC025-CZXXX	Conduit connections; 230V	None	Condensate - 0 to 20 µS/cm	25 feet
MVBXPHXC025-XXX	Prewired with pigtails	None	Condensate - 0 to 20 µS/cm	25 feet
PROGRAMMABLE TIMERS				MicroVision Timer
Model Number	Power Wiring	Panels		
MVT1PA-XXX	Prewired power cord and pigtails	Standard Panel and Flow Assembly		
MVT1PF-XXX	Prewired power cord and pigtails	Flow Assembly, No Panel		
MVT1PX-XXX	Prewired power cord and pigtails	No Panel and No Flow Assembly		



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