

MicroVision EX

Product Introduction



MicroVision^{EX}

Models Available for first release

Model#	Control Parameters	Programmable Timers	Flow Switch	Panel Mounted	Pump mounts	Digital Inputs	USB
MVECXXXPX-XXX-XXX	Conductivity control	3	No	No	0	5	YES
MVECXXXPF-XXX-XXX	Conductivity control	3	Yes	No	0	5	YES
MVECXXXPA-XXX-XXX	Conductivity control	3	Yes	Yes	0	5	YES
MVECXXXPD-XXX-XXX	Conductivity control	3	Yes	Yes	1 to 3	5	YES
MVEC5XXPF-XXX-XXX	Conductivity control	4	Yes	No	0	5	YES
MVEC5XXPA-XXX-XXX	Conductivity control	4	Yes	Yes	0	5	YES
MVECPXXPF-XXX-XXX	Conductivity and pH	6	Yes	No	0	10	YES
MVECPXXPA-XXX-XXX	Conductivity and pH	6	Yes	Yes	0	10	YES
MVECPXXPD-XXX-XXX	Conductivity and pH	6	Yes	Yes	1 to 3	10	YES
MVECOXXPF-XXX-XXX	Conductivity and ORP	6	Yes	No	0	10	YES
MVECOXPA-XXX-XXX	Conductivity and ORP	6	Yes	Yes	0	10	YES
MVECOXPD-XXX-XXX	Conductivity and ORP	6	Yes	Yes	1 to 3	10	YES
MVECPOXPF-XXX-XXX	Cond.,pH and ORP	5	Yes	No	0	10	YES
MVECPOXPA-XXX-XXX	Cond.,pH and ORP	5	Yes	Yes	0	10	YES
MVECPOXPD-XXX-XXX	Cond.,pH and ORP	5	Yes	Yes	1 to 3	10	YES

Model	Control Parameters	Relays	Timers	Probes	USB	4-20mA Inputs	4-20mA Outputs	Digital Inputs
MVECXXX	Conductivity	4	3	1	√	0 to 1	0 to 1	5
MVEC5XX	Conductivity	5	4	1	√	0 to 1	0 to 1	5
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
MVECPOX	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

MicroVision^{EX}

- *Based on MicroVision Simplicity*
- *Merged with advanced technology*
- *Legendary toroidal probe performance*
- *High end control features at affordable value*



Introducing the MicroVision EX

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IPEX
PLUS & IM-TOPO

MicroVision^{EX}

- **IP65**
- **Color LCD**
- **Easy Programming**
- **UV Stabilized**
- **Relay Status LEDs**
- **Lockable front window**
- **User defined timer and control name tags.**



- Acid
- Base
- Biocide A
- Biocide B
- Bromine
- Caustic
- Chlorine
- Hypochlorite
- Inhibitor
- Non-Oxidizer
- ORP Control
- Oxidizers
- pH Control
- Timer 4
- Timer 5
- Timer 6
- Timer 7

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Sensor Inputs

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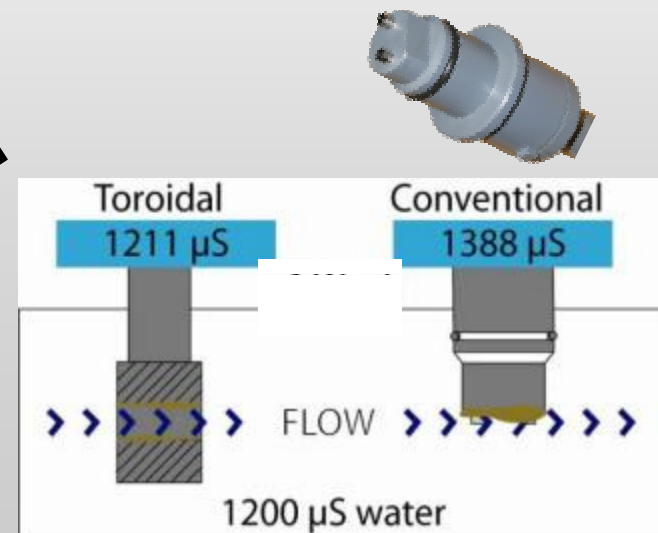
Probes - Conductivity

- *Conductivity*
- *pH*
- *ORP*
- *Make up conductivity*



Probes - Conductivity

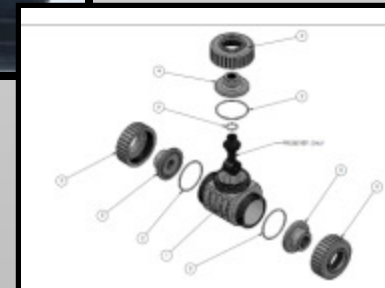
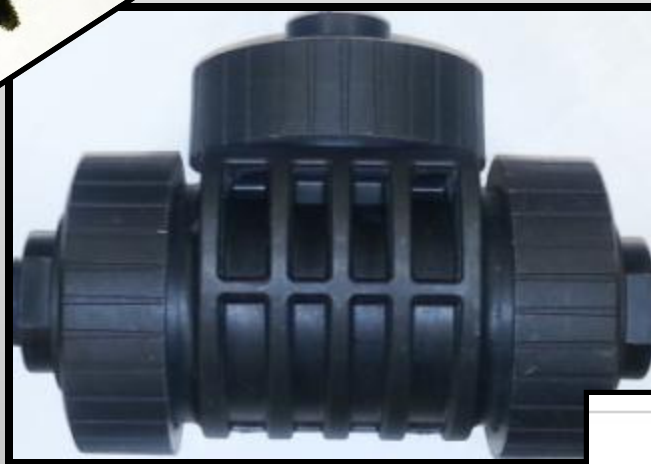
- **Conductivity**



Maintenance free toroidal probe, doesn't foul like contact style probes

Probes - Conductivity

- ***NEW! Easy access probe tee for inspection and easy alignment.***



Probes – pH and ORP

pH & ORP probes are standard industrial process sensors.

- ***1 point calibration***
- ***Easy to clean***
- ***Easy to change***
- ***Digital output for remote installation***



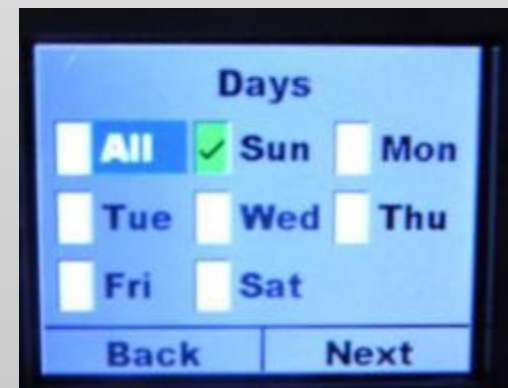
Relays

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Relay Outputs

Relays

- **Conductivity control**
- **pH control**
- **ORP control**
- **Fully programmable timers**
 - Water meter Pulse mode
 - Feed with bleed limit timer
 - Percent mode
 - Percent post bleed mode
 - 28 day biocide calendar timer
 - Alarm output

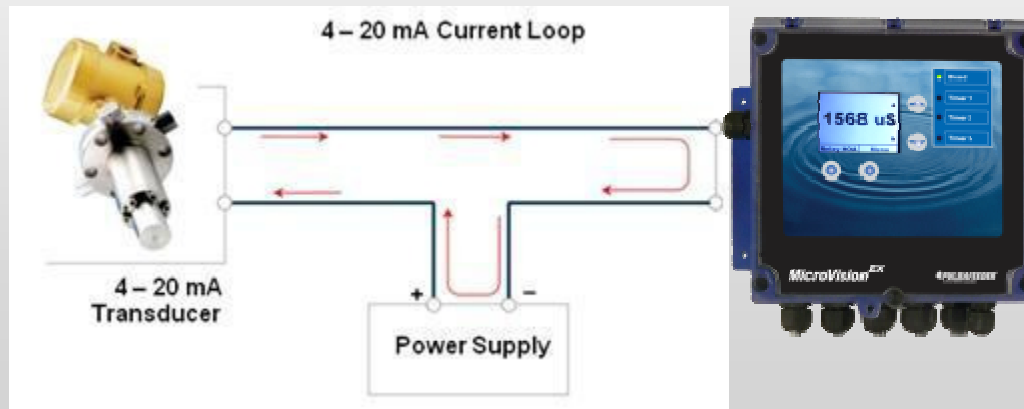


Digital Inputs

Digital Inputs	Input 1	Input 2	Input 3	Input 4	Input 5	Inputs 6 & 7	Inputs 8,9 and 10
Function	Flow Switch	Drum Level #1	Drum Level #2	Drum Level #3	Water Meter	Water Meter	Water Meter
Assignment	N/A	Timer #1	Timer #2	Timer #3	WM #1	WM #2 & 3	WM #4 to #6
Location	P1	P2	P3	P4	P5	P6 and P7	P8, P9, P10
Dry Contact	√	√	√	√	√	√	√
Hall Effect					√		√

2 4-20mA Inputs

4-20mA Inputs

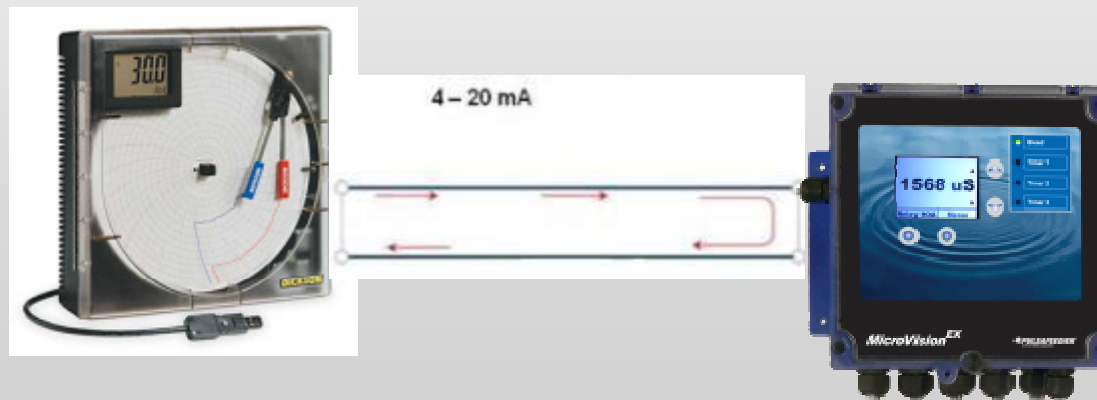


Up to 2x 4-20mA inputs can be used with sensors to control a relay based on a set point.

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4-20mA Outputs

4-20mA Outputs



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Data Logging



N18						
	A	B	C	D	E	F
1	Company Name: Pulsafeeder					
2	Controller Name: MicroVision EX					
3	Model Number: CXXXXPF-XXXXXX					
4	File Creation Data: 20/07/2015	DMY				
5	Date	D Fmt	Time	T Per	Cond SetPt	Cond Meas
6	6/17/2015	MDY	5:04:41 PM		1500	1108
7	6/17/2015	MDY	5:05:50 PM		1500	1128
8	6/17/2015	MDY	5:06:59 PM		1500	1139
9	6/17/2015	MDY	5:08:09 PM		1500	1143
10	6/17/2015	MDY	5:09:18 PM		1500	1148
11	6/17/2015	MDY	5:10:27 PM		1500	1151
12	6/17/2015	MDY	5:11:36 PM		1500	1153
13	6/17/2015	MDY	5:12:46 PM		1500	1152
14	6/17/2015	MDY	5:13:55 PM		1500	1154
15	6/17/2015	MDY	5:15:04 PM		1500	1150
16	6/17/2015	MDY	5:16:14 PM		1500	1155
17	6/17/2015	MDY	5:17:23 PM		1500	1152
18	6/17/2015	MDY	5:18:32 PM		1500	1155

Data History files

Data history files include the following:

- Analog input values
 - Conductivity
 - pH
 - ORP
 - Make Up conductivity
 - 4-20mA input #1
 - 4-20mA input #2
- Relay run times and relay status.
- Digital input status
- Historical record of program changes
- Historical record of when the menu is accessed
- Record of timer mode states
- Historical record of alarm conditions
- Historical record of water meter totals
- Power loss and Tamper detection

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Data Logging

- Export the data as a CSV file
- Use the Pulsafeeder graphing tool to create reports.
 - No Macro required
 - No proprietary software installation required
 - Simply cut and paste the file to your PC.

	A	B	C	D	E	F
1	Company Name: Pulsafeeder					
2	Controller Name: MicroVision EX					
3	Model Number: CXXXPF-XXXXXX					
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PLUMB & MECHANICAL

Data Logging -USB

Download data file

The controllers data log history file can be downloaded to the USB flash drive for access using Microsoft Excel.

Up to 2 years (1 Min/month USB transfer time) of data can be stored at 1 minute intervals based on user defined ranges (30 days, 60, 90,120,180, 1 year, 2 years).

Download program file

The controllers programming and set points can be down loaded for duplication of the program on other MicroVision EX controllers.

Upload program file

The controllers programming and set points can be uploaded for duplication of the program on other MicroVision EX controllers.

Firmware Update

The controllers operating software can be updated in the field to the most current version available from our web site www.Pulsafeeder.com

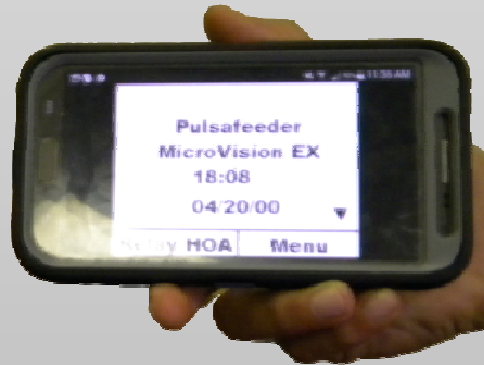
Micro Vision^{EX}

 **PULSAFEEDER[®]**

Data & Communication

Stay connected
to your system.

- Ethernet
- VNC



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Coming fall of 2015

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