

## ORP Set Point 2 Setup

### Step 1:

From the HOME menu push SETPOINTS (Button 1) to go to the next screen.

>HOME SETUP<	
SETPOINTS	DATE/TIME
CALIBRATION	CONFIGURE
TIMERS	HISTORY
CUSTOMIZE	WATER METER
ALARMS	RELAYS

### Step 2:

This is the Setpoints Setup Screen. From here push SENSORS on a MegaTron XS or select the appropriate SYSTEM number on a multi-system MT and then select ORP.

### Step 3:

Once in the ORP set point menu select Settings to access the main Set Point and Set Point 2.

>SYSTEM 1 ORP SETPOINT<	
SET POINT	SET POINT 2
DIFFERENTIAL	SETP2 NOTIFY
HIGH ALARM	
LOW ALARM	
LIMIT TIME	

- Set Point is the primary value that ORP will try to maintain.

- Set Point 2 is used by the ORP control logic only during times defined by an interlocked 28-day timer for "shock" periods.

If no primary ORP setting is desired set point 1 should be a low value like 20 mV.

-Set Point 2 Alarm Notification occurs if the set point 2 value is not met during the interlocked time.

**NOTE:** The relay activating the chemical feed device MUST have the system's ORP as the main action.

### Step 4:

From the HOME menu select Configure.

>HOME SETUP<	
SETPOINTS	DATE/TIME
CALIBRATION	CONFIGURE
TIMERS	HISTORY
CUSTOMIZE	WATER METER
ALARMS	RELAYS

### Step 5:

This is the Configure Screen. From here push the RELAYS to go to the next screen.

>CONFIGURE<	
PASSWORD	CONTRAST
RELAYS	TEMP SCALE
HISTORY	SYS INFO
	FACTORY

### Step 6:

Select the desired Relay. From here press the MAIN ACTION.

>RELAY 1 SETUP<	
MAIN ACTION	DISABLE 1
ACTIVATOR 2	DISABLE 2
ACTIVATOR 3	DISABLE 3
ACTIVATOR 4	DISABLE 4
DELAY	DAILY MAX

The MAIN ACTION for the relay activating chemical feed based on ORP Set Point 2 must be the desired system's ORP function.

### Step 7:

With Set Point 2 and the control relay defined as desired press Home and then select Timers.

>HOME SETUP<	
SETPOINTS	DATE/TIME
CALIBRATION	CONFIGURE
TIMERS	HISTORY
CUSTOMIZE	WATER METER
ALARMS	RELAYS

## ORP Set Point 2 Setup

### Step 8:

Select the desired Timer and make the Timer type 28-day. Then select that timer to access settings.

```

                >TIMERS<
TIMER 1 28-DAY
TIMER 2 PULSE
TIMER 3 PERCENT
    
```

### Step 9:

28-day timers have 4 independent Programs. You can view your current settings. From here push SETUP then go to the next screen.

```

                >TIMER 1 PGM 1<
                WEEKS:      NO WEEKS
                DAYS:      MONDAY
START TIME (24 HR): 00:01
RUN TIME (HH:MM):  00:01
PREBLEED:         00:01
MINIMUM COND:    0001 uS/cm
FEED LOCK:       NONE
BLEED LOCK (HH:MM): 00:01
FLOCK LOCK:      ONLY WITH FLOW
                SETUP
    
```

### Step 10:

Set Timer Weeks by using the up/down arrow keys. Press ENTER to accept and continue. The Days, Start Time, Run Time, Prebleed, Min Cond, Feed Lock, Bleed Lock, and Flow Lock can be changed with similar steps.

```

                >TIMER 1 PGM 1 CHANGE<
                W
                N
                S
                V
                P
                PREBLEED
TIMER WEEKS (NO WEEKS)
                -> NO WEEKS
PRESS UP/DOWN KEYS TO CHANGE,
PRESS ENTER TO ACCEPT
    
```

### Program descriptions:

- DAYS** = Days of the week for desired feed.
- START TIME** = Time of day that the pre-bleed then feed RUN time starts.
- RUN TIME** = The amount of time ORP Set Point 2 will be used to activate relay with ORP as Main Action.
- PREBLEED** = The amount of time that bleed can be on to lower conductivity. Example: 30 minutes
- MIN COND** = Minimum conductivity value allowed during pre-bleed if reached bleed stops and feed starts. Typically use a value 200 below the conductivity set point.
- FEED LOCK** = Identifies another timer on the same system not allowed to run while timer is running.
- BLEED LOCK** = Amount of time the bleed is locked out during and after RUN time
- FLOW LOCK** = Select if timer can RUN with or without flow or only with flow and store 1 feed. Store 1 allows feed to occur when the flow comes on if it was off at scheduled time.
- ORP LOCK** = Set to interlocked to trigger ORP control logic to use Set Point 2 during timer's RUN cycle.

**NOTE:** The relay activating the chemical feed device **MUST** have the system's ORP as the main action. If the Timer is the action it runs without ORP control.