

RAIN  *BIRD*

iQ4

IQ4 – Manual Ops

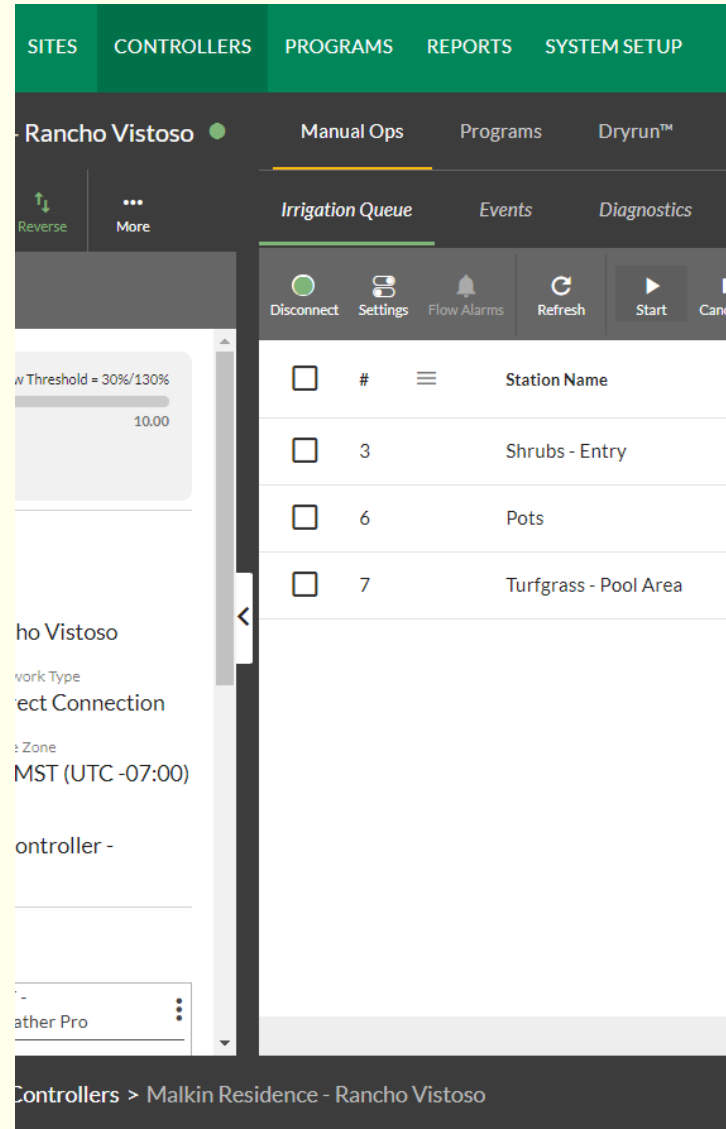




IQ4 – Manual Ops tab

The Manual Ops tab is a feature that allows users to monitor and control all manual irrigation from one location

- Irrigation queue of operating, soaking or pending stations
- Flow Alarms monitoring and healing
- Start Programs and/or Stations
- Cancel All irrigation
- Advance selected station
- Review Events for the controller
- Review and initiate Diagnostics for the controller
- Monitor status of Weather Sensors and Master Valves





IQ4 – Manual Ops tab

Manual Ops

Programs Dryrun™ Stations Master Valves Sensors Map

Irrigation Queue Events Diagnostics

Controller Settings

Flow Rate Low/High Flow Threshold = 30%/130%

Actual: 0.00 gal/min (0.00%)
Expected: 0.00 gal/min

Site Name
Malkin Test Site

Name
Malkin Residence - Rancho Vistoso

Controller Type LXME2
Network Type Direct Connection

SIM Expires -
Time Zone USMST (UTC -07:00)

Description
Malkin Residence Test Controller -
Rancho Vistoso

View ET Calendar

WEATHER FORECAST -
Oro Valley - Global Weather Pro

#	Station Name	Status	Program	Source
3	Shrubs - Entry	8 min 35 sec	1	Auto Program
6	Pots	10 min 35 sec	3	Auto Program
7	Turfgrass - Pool Area	28 min 41 sec	5	Manual Program

Rain Bird Dashboard > Controllers > Malkin Residence - Rancho Vistoso

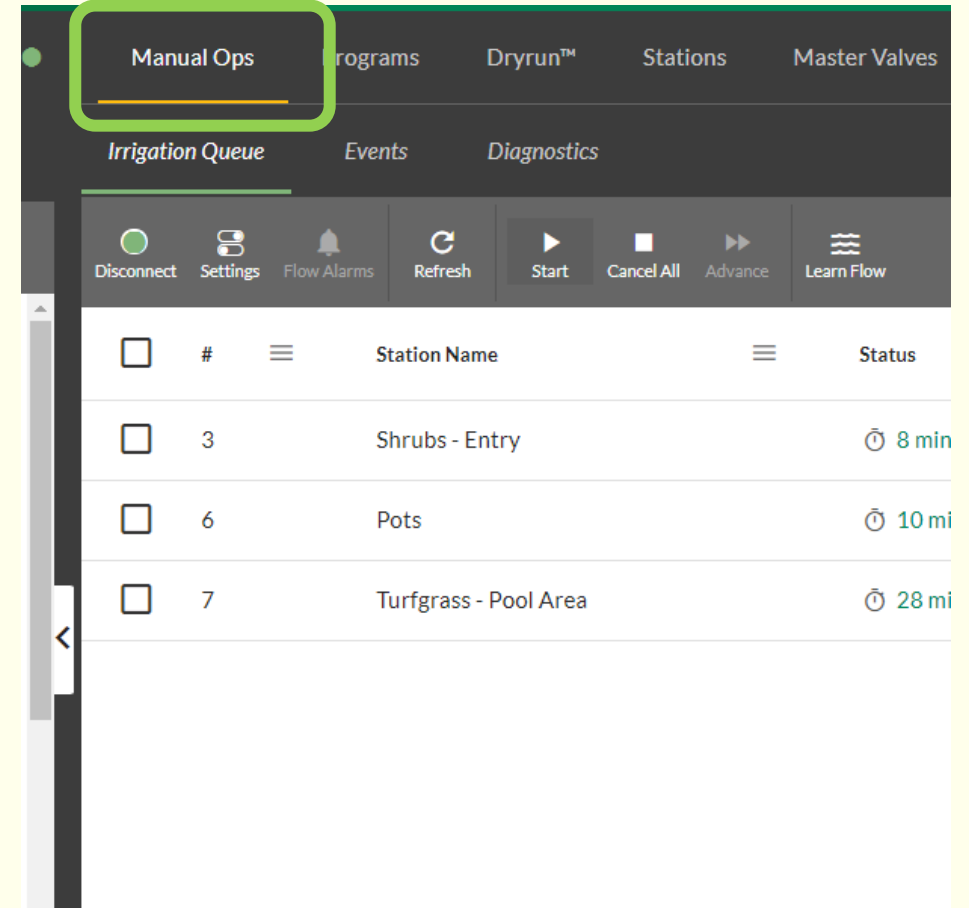


IQ4 – Manual Ops tab

Setup items to complete before fully using the Manual Ops Tab

Controller Setup

- Flow Sensors
- Master Valves
- Stations
- Programs
- Controller Level SimulStations
- FloManager
- FloWatch
- Controller parameters (Auto/Off, Auto Sync, Scheduled Sync, etc.)





IQ4 – Manual Ops tab

Program Setup

- Start time(s)
- Day(s) of operation
- Program Level SimulStations
- ET Adjust, Program Adjust

Station Setup

- Flow rate(s)
 - Manual
 - Learned flow
- Base Runtime(s)
- Decoder/IVM addresses
- FloZone assignments

The screenshot shows the 'Manual Ops' interface with two program configuration panels. The left panel is for 'Shrubs - low water use' and the right panel is for 'Trees - low water use'. Both panels show 'Adv. ET FCST' with a weekly schedule (Su, M, T, W, Th, F, Sa), a 'Start Time (1)' of 6:00 AM, and a 'Projected Time (Start/End)' of - / -. Other settings include 'Program Adjust *' at 100, 'Simultaneous Stations *' at 1 for shrubs and 5 for trees, and 'Program Adjust Method *' set to 'Advanced ET'.

<input type="checkbox"/>	#	Station Name	Status	Run Time	Programs	Landscape
<input type="checkbox"/>	1	Shrubs - Garage	Idle	00:48:59	1	User Shrubs - Point Source
<input type="checkbox"/>	2	Trees - Garage	Idle	00:09:04	2	Use Trees - Point Source
<input type="checkbox"/>	3	Shrubs - Entry	-	00:48:59	1	User Shrubs - Point Source
<input type="checkbox"/>	4	Trees - Entry	Idle	01:34:14	2	Use Trees - Point Source
<input type="checkbox"/>	5	Fountain Perennial Flowers - E...	Idle	00:00:00	7	Use Shrubs - Inline Drip
<input type="checkbox"/>	6	Pots	8 min 27 sec	00:08:00	3	Use Shrubs - Point Source
<input type="checkbox"/>	7	Turfgrass - Pool Area	-	00:09:28	5	TIFGrand Turfgrass
<input type="checkbox"/>	8	Turfgrass - North - Rear Yard	Idle	00:19:31	6	BOB Sod Turfgrass
<input type="checkbox"/>	9	Turfgrass - South - Rear Yard	Idle	00:19:31	6	BOB Sod Turfgrass
<input type="checkbox"/>	10	Raised Planter - Rear Yard	Idle	00:10:12	4	us - Point Source



IQ4 – Manual Ops

Using the Manual Ops Tab

The Manual Operations tab provides software tools to help you remotely control the operation of controllers using the IQ4 Software.

Manual Operations include:

Managing the irrigation queue by starting a station or program, or by cancelling irrigation

Viewing and changing current settings

Flow Alarm identification and healing alarms

Using special commands: i.e. downloading updated firmware to satellite controllers and viewing controller event logs

Tip: It is best to connect to the controller first, before attempting any manual commands

The screenshot shows the IQ4 software interface. The 'Manual Ops' tab is highlighted with a green box. Below it, the 'Irrigation Queue' tab is selected, displaying a table of irrigation stations. The table has columns for checkboxes, station numbers, station names, and status. The status column shows a timer icon and the remaining time for each station.

<input type="checkbox"/>	#	Station Name	Status
<input type="checkbox"/>	3	Shrubs - Entry	⌚ 8 min 35 s
<input type="checkbox"/>	6	Pots	⌚ 10 min 35 s
<input type="checkbox"/>	7	Turfgrass - Pool Area	⌚ 28 min 41 s



IQ4 – Manual Ops - Irrigation Queue Tab

<input type="checkbox"/>	#	Station Name	Status	Program	Source
<input type="checkbox"/>	1	Shrubs - Garage	45 min 55 sec	A	Manual Program
<input type="checkbox"/>	2	Trees - Garage	Pending	B	Manual Program
<input type="checkbox"/>	3	Shrubs - Entry	45 min 55 sec	A	Manual Program
<input type="checkbox"/>	4	Trees - Entry	Pending	B	Manual Program
<input type="checkbox"/>	6	Pots - Planters	-	C	Auto Program



IQ4 – Manual Ops - Irrigation Queue Tab

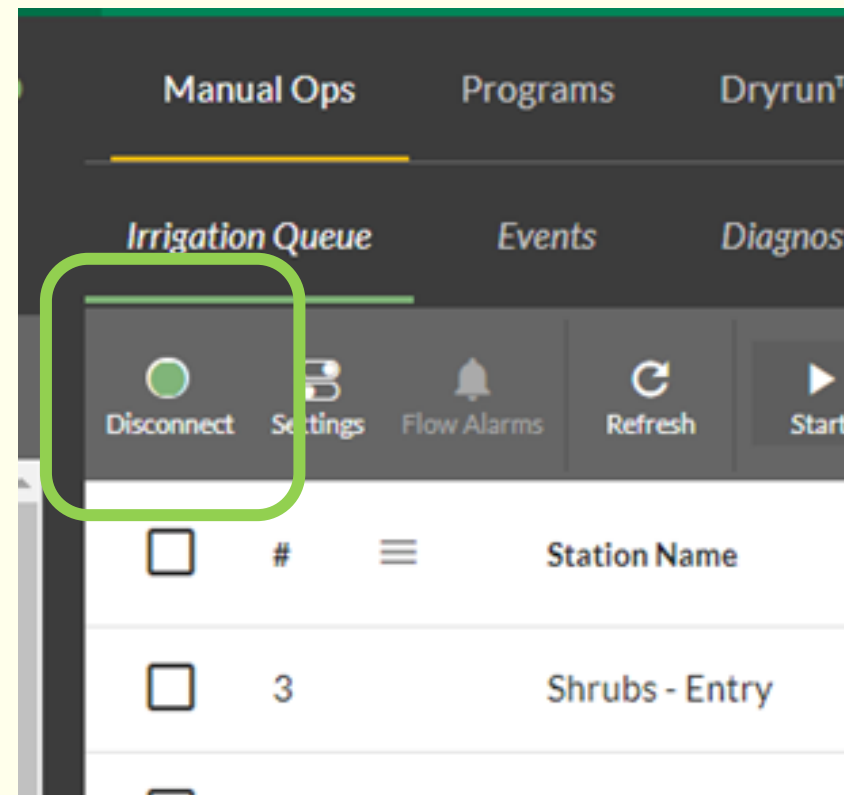
- Connect/Disconnect button: Makes a manual connection to the controller
- Settings button: displays (no editing) the controller settings
- Flow Alarm button: If there are any flow alarms, a red exclamation point will be displayed. Clicking the button will open the Flow Alarm dialog box to disposition
- Refresh button: Current settings and Irrigation Queue will update immediately
- Start button: Starts Program(s) or starts station(s)
 - Manual Start Station — Activates one or more stations immediately
 - Manual Start Program — Starts one or more programs immediately
- Cancel All button: Stops all irrigation on the controller immediately
- Advance button: Stops the selected station and activates the next pending station immediately
- Learned Flow button: initiates the Learned Flow function for the selected stations.

<input type="checkbox"/>	#	Station Name	Status
<input type="checkbox"/>	3	Shrubs - Entry	⌚ 8 min 35 s
<input type="checkbox"/>	6	Pots	⌚ 10 min 35 s
<input type="checkbox"/>	7	Turfgrass - Pool Area	⌚ 28 min 41 s



IQ4 – Manual Ops - Irrigation Queue Tab

- Once connected, the IQ Software retrieves Current Settings from the device:
 - Satellite Status — The satellite can be either Auto (automatic) or Off. If the satellite is Off, watering is suspended. It does not mean that there is no power to the device.
 - Rain Delay — The number of days remaining in a Rain Delay, as physically stored in satellite controller memory.
 - Sensor Switch Status — This indicates the position of the Sensor Switch
 - Sensor Status — Indicates the current status of watering based on the status of the installed sensor. The values are either Normal or Watering Suspended, along with the name of the sensor.
 - Mode - Current irrigation mode
 - FloWatch - Current state of FloWatch
 - FloManager - Current state of FloManager
 - 2-Wire Path (ESP-LXIVM/ESP-LXD only) - Current state of 2-Wire Path





IQ4 – Manual Ops – Events Tab

The screenshot displays the Rain Bird IQ4 interface for the 'Malkin Residence - Rancho Vistoso' controller. The 'Manual Ops' and 'Events' tabs are highlighted with a green box. The 'Events' tab shows a list of events with the following columns: Date/Time, Description, Type, Site, and Source. The events listed are:

Date/Time	Description	Type	Site	Source
04/23/2024 9:33 AM	Station006 #006 turning off	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
04/23/2024 9:33 AM	Flow detected during Manual MV Watering Window.	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
04/23/2024 9:32 AM	Station006 #006 turning on	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
04/23/2024 9:22 AM	Program 5 finished	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
04/23/2024 9:22 AM	Station007 #007 turning off	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
04/23/2024 9:20 AM	Flow detected during Manual MV Watering Window.	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso

Additional interface elements include a 'Controller Settings' sidebar on the left, a 'Weather Forecast' widget showing 61.9°F, and a bottom navigation bar with the breadcrumb 'Rain Bird Dashboard > Controllers > Malkin Residence - Rancho Vistoso'.



IQ4 – Manual Ops – Events Tab

- Displays Events for the past 7 days for just this controller

The screenshot shows the 'Events' tab in the Rain Bird interface. At the top, there are three tabs: 'Irrigation Queue', 'Events' (which is selected), and 'Diagnostics'. Below the tabs, there is a filter section with a dropdown set to '3 days', a 'Start' date of '04/20/2024', an 'End' date of '04/23/2024', and 'Alarms(+2)'. To the right of the filter section are three buttons: 'ACKNOWLEDGE', 'ACKNOWLEDGE ALL', and 'EXPORT TO CSV'. The main area contains a table with the following columns: 'Date/Time', 'Description', 'Type', 'Site', and 'Source'. The table lists seven events from 04/23/2024 9:20 AM to 9:33 AM.

<input type="checkbox"/>	Date/Time	Description	Type	Site	Source
<input type="checkbox"/>	04/23/2024 9:33 AM	Station006 #006 turning off	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
<input type="checkbox"/>	04/23/2024 9:33 AM	Flow detected during Manual MV Watering Window.	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
<input type="checkbox"/>	04/23/2024 9:32 AM	Station006 #006 turning on	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
<input type="checkbox"/>	04/23/2024 9:22 AM	Program 5 finished	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
<input type="checkbox"/>	04/23/2024 9:22 AM	Station007 #007 turning off	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso
<input type="checkbox"/>	04/23/2024 9:20 AM	Flow detected during Manual MV Watering Window.	Information	Malkin Test Site	Malkin Residence - Rancho Vistoso



IQ4 – Manual Ops – Diagnostics Tab

Controller Settings

Flow Rate Low/High Flow Threshold = 0%/0%
0 10.00
Actual: 0.00 gal/min (0.00%)
Expected: 0.00 gal/min [View Details >](#)

Site Name
Product Manager Test
Controllers

Name
ESP-LXIVM Pro Client -ESP-LXME2 Server

Controller Type Network Type
LX-IVM Pro IQNet™ Client

SIM Expires Time Zone
- USMST (UTC -07:00)

Description

[View ET Calendar](#)

WEATHER FORECAST -
Oro Valley - GW-Pro

CURRENT CONDITIONS

82.6°F 3.0 mph

Weather Sensor Status (Last Updated: 04/23/2024 11:06 AM)

Name	Status
Rain Freeze Switch	Prevent
Rain Switch	Monitoring
Weather 2	Inactive
Weather 3	Inactive
Weather 4	Inactive
Weather 5	Inactive
Weather 6	Inactive
Weather 7	Inactive

Master Valve Status (Last Updated: 04/23/2024 11:06 AM)

Name	Type	Status	MV Water Window
Master Valve 001	Normally Open	Closed	Yes
Master Valve 002	Normally Closed	Closed	Yes
Master Valve 003	Normally Open	Closed	Yes
Master Valve 004	Normally Closed	Closed	Yes
Master Valve 005	Normally Open	Closed	Yes
Master Valve 006	Normally Open	Closed	Yes
Master Valve 007	Normally Open	Closed	Yes
Master Valve 008	Normally Open	Closed	Yes
Master Valve 009	Normally Open	Closed	Yes
Master Valve 010	Normally Closed	Closed	Yes

Controller Output (Last Updated: 04/23/2024 11:06 AM)

Current 0 mA
(expected: 1 - 400 mA)

Voltage 0.00 V
(expected over 23 V)

Rain Bird Dashboard > Controllers > Server Controller > ESP-LXIVM Pro Client -ESP-LXME2 Server



IQ4 – Manual Ops – Diagnostics Tab

Diagnostics display – ESP-LXME/ESP-LXME2

- Displays the local sensor name and status
- Displays the Master Valve name, type and status along with the Master Valve Water Window setup

The screenshot displays the Rain Bird IQ4 interface for an ESP-LXME2 Server Controller. The top navigation bar includes tabs for ACTIVITY, SITES, CONTROLLERS, PROGRAMS, REPORTS, and SYSTEM SETUP. The current view is the Diagnostics tab, which is further divided into Irrigation Queue, Events, and Diagnostics. The Diagnostics section contains two main data panels:

- Weather Sensor Status** (Last Updated: 04/23/2024 11:13 AM):

Name	Status
Local	Monitoring
- Master Valve Status** (Last Updated: 04/23/2024 11:13 AM):

Name	Type	Status	MV Water Window
Master Valve 001	NCMV	Closed	Yes
Master Valve 002	Pump	Off	Yes

On the left side of the interface, the Controller Settings panel shows the following information:

- Site Name: Product Manager Test Controllers
- Name: ESP-LXME2 Server Controller
- Controller Type: LXME2
- Network Type: IQNet™ Server
- SIM Expires: 04/16/2027
- Time Zone: USMST (UTC -07:00)
- Description: ---

Below the settings is a weather forecast section for Oro Valley - GW-Pro, showing current conditions of 82.6°F and a wind speed of 3.0 mph. The hourly forecast for 23 APR shows temperatures ranging from 82.9°F to 89.0°F.



IQ4 – Manual Ops – Diagnostics Tab

Diagnostics display – ESP-LXD

- Displays the local and 2-wire sensor name and status
- Displays the Master Valve(s) name, type and status along with the Master Valve Water Window setup
- Displays the Line Survey Status including voltage and current

The screenshot displays the Rain Bird IQ4 interface for an ESP-LXD Client Controller. The top navigation bar includes 'ACTIVITY', 'CONTROLLERS', 'PROGRAMS', 'REPORTS', and 'SYSTEM SETUP'. The main content area is divided into three sections:

- Controller Settings:** Shows flow information (Actual Flow Rate: --, Expected Flow Rate: 0 gal/min) and controller details (Name: ESP-LXD Client Controller for ESP-LXME2, Controller Type: LXD, IQNet Type: IQNet Client).
- Weather Sensor Status (Last Updated: 11/18/2021 8:12 AM):** A table showing the status of three weather sensors.
- Master Valve Status (Last Updated: 11/18/2021 8:12 AM):** A table showing the status of five master valves, including their type, status, and MV Water Window.
- Line Survey (Last Updated: 11/18/2021 8:12 AM):** A table showing voltage and millamps readings for two sensors (A and B).

Name	Status
Local Sensor	Monitoring
Weather 1	Inactive
Weather 2	Inactive
Weather 3	Inactive

Name	Type	Status	MV Water Window
Master Valve 001	Normally Closed	Closed	No
Master Valve 002	Normally Closed	Closed	No
Master Valve 003	Normally Closed	Closed	No
Master Valve 004	Normally Closed	Closed	No
Master Valve 005	Normally Closed	Closed	No

	A	B
Voltage 1	15.9	15.8
Voltage 2	-20.5	-20.5
Millamps	15	15

Temperature	OK
Current	OK
Overload	Not OK



IQ4 – Manual Ops – Diagnostics Tab

Diagnostics display – ESP-LXIVM/LXIVM Pro

- Displays the local and 2-wire sensor name and status
- Displays the Master Valve(s) name, type and status along with the Master Valve Water Window setup
- Displays the Controller Output status including voltage and current

The screenshot displays the Diagnostics tab for an ESP-LXIVM Pro Client. The interface is divided into several sections:

- Controller Settings:** Shows flow rate (0.00 gal/min), site name (Product Manager Test), controller name (ESP-LXIVM Pro Client - ESP-LXME2 Server), and network type (IQNet™ Client).
- Weather Sensor Status:** A table listing 7 sensors with their names and statuses.
- Master Valve Status:** A table listing 10 master valves with their names, types, statuses, and MV Water Window settings.
- Controller Output:** Shows current (0 mA) and voltage (0.00 V) readings.

Name	Status
Rain Freeze Switch	Prevent
Rain Switch	Monitoring
Weather 2	Inactive
Weather 3	Inactive
Weather 4	Inactive
Weather 5	Inactive
Weather 6	Inactive
Weather 7	Inactive

Name	Type	Status	MV Water Window
Master Valve 001	Normally Open	Closed	Yes
Master Valve 002	Normally Closed	Closed	Yes
Master Valve 003	Normally Open	Closed	Yes
Master Valve 004	Normally Closed	Closed	Yes
Master Valve 005	Normally Open	Closed	Yes
Master Valve 006	Normally Open	Closed	Yes
Master Valve 007	Normally Open	Closed	Yes
Master Valve 008	Normally Open	Closed	Yes
Master Valve 009	Normally Open	Closed	Yes
Master Valve 010	Normally Closed	Closed	Yes

Current	0 mA (expected: 1 - 400 mA)
Voltage	0.00 V (expected over 23 V)

Frequently Asked Questions