

WebAdvantage Device Internet Communications



VERY IMPORTANT: This manual contains information and contact sheets that must be returned in order for you to use the controller online. <u>DO NOT DISCARD THIS MANUAL!</u>

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Add Device and Assign USER ID (Admin's Only)	

WebAdvantage Connection - SETUP CHECKLIST
• Do you have a WebAdv USER ID and password? Yes, if 'No' proceed to page 22.
 Has your account admin added the device and linked it to your USER ID? Yes, if 'No' proceed to page 23.
Congratulations! You are now ready to go online with WebAdvantage.

Overview

WebAdvantage's server and website are designed to keep in constant contact with MegaTron controllers connected to the Internet. The WebAdvantage server constantly downloads real-time data and saves this data for graphing and logging trends. It can also send alarm notification to multiple individuals via e-mail. In addition, it lets a user log in to check or change settings in the controller.

WebAdvantage is designed to be straightforward and easy to use. Please read your MegaTron manual and familiarize yourself with the MegaTron controller. Setup requires only a few minutes, provided you have the necessary information on hand. When your WebAdvantage enabled MegaTron arrives, it will need access to the internet via a company provided network connection or Advantage cellular router.

Once the controller is placed in it's permanent position, some settings will need to be changed so that the unit can connect to the Internet. You will need the following information/equipment to properly configure the unit:

- A network connection and the appropriate cabling (RJ-45 terminated category 5 cable for H1).
- If connected to a LAN, know whether the unit will be using a **static** or **dynamic** IP address. If the unit will use a static IP address, you will need to obtain a useable static IP addresses from your IT staff for the **network address, network mask, DNS** and **network gateway**. If the unit will use dynamic addressing, this information is provided automatically.

Getting Started

Using the inline coupler provided with the unit, connect a live CAT5 cable to the CAT5 cable coming from the MegaTron Controller.

Note: A unit must have a name of at least one character for the WebAdvantage server to recognize it when viewing the status page.

Once you have determined if the controller will be using a dynamic IP address (DHCP) or static IP address you will need to make sure the controller's Network settings are configured appropriately. From the Home menu of the controller go into the Configure menu then the Network sub menu.

>NETWORK<	>CONFIGURE NETWORK<
IP ADDRESS: 0.0.0.0 SUBNET MASK: 0.0.0.0 GATEWAY 0.0.0.0 ACI SERVER: connect.webadvantage.online:80 LOCAL MODE: ON REMOTE MODE: ON DHCP SETTINGS RESET	IP ADDRESSHTTP LOCALIP MASKHTTP REMOTEGATEWAYSEC DNSPRI. DNSHOSTSERVERDOMAIN

If connecting to the network using a static IP address, the DHCP will need to be off and the static information IP, Mask, Gateway and DNS entered into the controller. If you are connecting to the network using a dynamic IP address, the settings will be applied automatically.

When making changes use the keypad to enter numbers, the up / down arrows to scroll through the alphabet. Press the right arrow after each desired character is entered to set the next character.

TIP: If you press the HELP button after arrowing over to the next position the last letter or number you selected will be displayed, this is especially handy if you are using lower case letters.

Note: Always press the RESET button when any changes have been made to the network settings.





Connecting to a DHCP enabled MegaTron

This guide is designed to help with connecting a DHCP enabled MegaTron or cell router to a local network.

Note: Screens may vary slightly between models.

DHCP Setup

Step 1:

Press Setup/Run, CONFIGURE, NETWORK, SETTINGS.

(See figures 1, 2 and 3. Dual network cards add figure 3B. Dual network cards only available for the MegaTron MT.)

Step 2:

Press DHCP. (See figure 4.)

Step 3:

Use the up/down arrows to enable. Press **Enter** to accept. (See figure 5.)

Step 4:

Press **RESET** and then press **Enter** to accept. The communications card will reset after a short countdown.

(See figures 6 and 7.)

Step 5:

After the communications card has been reset cycle power to the controller.





Connecting to a static IP enabled MegaTron MT

This guide is designed to help with connecting a static IP enabled MegaTron to a local network.

Note: Screens may vary slightly between models.

Static IP Setup

Step 1:

Press Setup/Run, CONFIGURE, NETWORK, SETTINGS.

(See figures 1, 2, 3 and 4. Dual network cards add figure 3B. Dual network cards only available for the MegaTron MT.)

Step 2:

Press IP ADDRESS or other setting to change. (See figure 5.) Note: If these options are not visible, DHCP needs to be disabled. See enabling (disabling) DHCP setup.

Step 3:

Enter the IP ADDRESS. Press **Enter** to accept. (See figure 6.)

Step 4:

Press **RESET** and then press **Enter** to accept. The communications card will reset after a short countdown.

(See figures 7 and 8.)

Step 5:

After the communications card has been reset cycle power to the controller.





Connecting to internet using a option "H" WiFi

This guide is designed to help with connecting a option "H" WiFi MegaTron to the internet.

Note: Screens may vary slightly between models.

Step 1:

Press Setup/Run, CONFIGURE, NETWORK, WIFI.

(See figures 1, 2, 3 and 4. Dual network cards add figure 3B. Dual network cards only available for the MegaTron MT.)

Step 2:

Use the UP/DOWN arrows to change USE WIFI FOR WEB to **ENABLE**. Press **Enter** to accept. (See figure 5.)

Step 3:

Press **RESET** and then press **Enter** to accept. The communications card will reset after a short countdown.

(See figures 6 and 7.)

Step 4:

After the communications card has been reset cycle power to the controller.



Advantage Controls



MegaTron Quick Steps

Connecting to internet using a option "H" WiFi

Step 5:

After the controller reboots, press **Setup/Run, CONFIGURE, NETWORK, SETTINGS**, **WIFI NETWORK**.

(See figures 8, 9, 10, 11 and 12. Dual network cards add figure 10B.)

Step 6:

Select your network and press **Enter** to accept. (See figure 13.)

Step 7:

Enter your WiFi password then press **Enter** to connect.

Note: Blank passwords valid on some networks.

Step 8:

Press **Setup/Run**. When your controller is properly connected, a "ON WEB" message will appear at the bottom/center of the Setup/Run screen.

(See figure 14.)



Advantage Controls

Log In Screen

To login you must have the USERID and password that was created on page 22. If this has not been filled in and submitted, contact our WebAdvantage department at 918-686-6211.

You can then use any desktop or mobile web browser that allows cookies, and has java scripting enabled to connect to the remote communications server.

- USERID = Email Address
- Password



Note: On success reveals sign in button

If you have misplaced your USERID / password or need to create a new account, links are provided near the bottom of the login form.

Device List (Home)

Optimized for use with mobile and desktop browsers. Mobile menu accessed with the icon at the top right

You start at the Device List screen when you first log in.

This screen lists all the devices you have connected to the system.

From here you have access to a sortable/searchable list of devices by Name, Serial, Type, Status, Graphical View, Text View, Reports, History, Access, and more...

Select the controller you wish to work with by clicking on "Graphical View", "Text View", "Reports" or "History". You can view the controller settings by clicking on either "Graphical" or "Text View". The "History" link will allow you to view your history in a log table or graph mode. "Reports" will allow you to use the device data to generate a report. To return to this screen, click "Home" link on the bar at the top of the page at anytime.

Device List

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Home & Administr

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Alarm Quick Summary shown when clicking on a particular alert.

Conditions:

- On-Line Green
- Off-Line Red
- Alarm Condition Yellow





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Alarm3: SYS1 LO ph Alarm4: SYS1 LO COND

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Graphical View

Note: You can alternate between the different views at any time from the home screen (device view) or from the tabs at the top of each view.



Here you can create as many custom reports that are desired for a given MegaTron controller. These reports can have any of the system parameters plotted onto a graph (probe readings, relays, alarms, Notepad entries) in various colors. It is recommended that reports / graphs use readings of the same units of measure to keep a graph understandable.

Reports can then be set to have the server automatically email them at a desired interval to various email accounts.

- · Listing of saved reports
 - View, edit, delete options
- Create a new report
- Create a new report from template. See page 18.



General

- Report Name
- Permissions
 - User, User (Shared) or Controller

User: Only the report creator can see report on WebAdv

User (Shared): Creator can edit report. Others can only view report

Controller: Anyone with controller access can edit or view report.

Note: You can email reports to others not on WebAdv if needed. See "Emailing" section below.

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Emailing

• Email date = Future email will be sent on this date

Note: If you plan to disconnect your controller for an extended period of time, change the "**Email Date**" to match the future re-connection. This will avoid a backlog of unnecessary emails waiting to be sent after reconnect. It is also a good time to verify that the assigned email has not changed.

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• Logs

 Graph only, Graph and logs only, Logs only, Webadvantage export = Text file based on report channels

• Email addresses = Multiple email addresses can be listed in this field with a comma "," between each address.

Tip: If you need the alarm sent via text, most USA based phone carriers have an email address assigned to the phone's text messaging function. Adding this particular email address to the user's profile alarms, WebAdvantage will send an email to the phone that shows up as a text message. That email address is typically the phone's 10 digit number @ a particular carrier base address.

Past Examples: Verizon = 9186866211@vtext.com AT&T = 9186866211@txt.att.net

Report Settings

• Interval = How often report will be sent

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- Axis
- Single
- Dual = Example: Dual axis allows you to view conductivity and pH on the same graph.
- Left Axis (Min)
- Left Axis (Max)
- Right Axis (Min)
- Right Axis (Max)



Sample Graph

Channels

Any sensor or measure going through controller.

- New channel
 - View, modify, delete
- Channel Name, Color, Axis, Legend Type, Name Override
- Channel Name = Listing comes from the controller

• Channel Color = Line color on graph

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Channels Channel Name NOT ASSIGNED	 Black Blue Brown Cyan Green Magenta 	+ New Axis Loft Loft	r Chann	Legend Type Average Average	•	NONE	

- Axis
- Left or Right-hand side



Interval:				Axis:		
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Legend Type

Average or Usage

Average: Displays min/max values on graph

Usage: Displays projected usage based on previous data

• Name Override = Example: Shorten the System 1 pH title to just pH in the graph's legend.

• Also create user template = When checked only the creator can see this template

Viewing / Generating Reports

- Graph
- Start Date / Time
- End Date / Time
- Left Axis (Min)
- Left Axis (Max)
- Right Axis (Min)
- Right Axis (Max)

Select values then click the graph button to update.

- Email Button = Expands to show email options
 - Email To
 - Email Subject
 - Email Message

Note: Email will include the graph shown above along with your custom subject / message.

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Shortcut from Device List

General

• History of: Sensor, Notepad, Water Meter, Relay, Alarm, Special Events, mA Inputs





story : ×

• System = Controller assigned values

Ranges

- Start date / time
- End date / time

Note: Based on central time zone. Rendering times may vary.

Channels

- Channel option = Pulled from controller
 - Min
 - Max
 - UOM (Unit of measure)

21 2017 End Date End Time Sec 10 2017 22 00 Min UOM uS/cr € Co 5000 Sv. 0 150 Grant C V itory : × → C ☆ Secure | https: ¢¢ * 0 badvantage. Ser #1: TOWER CARD Range Start Date Start Time: 10 Sep 21 👔 > This PC > Do νõ End Date BEE 💌 0 Sec This PC 22 Docu 🙀 Vic Local Disl ACI Phot Conc Save Cancel E Log

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Home & Administration -

History and Reports

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Home / History and Reports

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G User Logout

Log Button = Create a .csv file of history data

Graph Button = Displays graph in popup



Viewing a Custom History Report

- Custom History Report
 - Magnifying glass icon to view report. Here you can <u>temporarily</u> <u>change</u> values to update the graph. This will not affect future reports.
 - **Pencil icon** to edit report. This <u>will change future</u> reports.
 - Trash can icon to <u>permanently</u> <u>remove</u> report



Downloads

• Graph data button = Only available when report is set to Graph & Log.



New Report Template

Report Templates

• New Template

Note: To learn more about each of these settings, refer back to page 10.

7	WebAdvantage: History = ×			- 🗆 ×
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Copyright © 2017. All Rights Reserved.				



Note: Only available with device manager privileges.

- Click the **People icon** to see who has access to the device
- Change permissions if allowed



Extensive administration function tutorials can be found on our Youtube page.

https://www.youtube.com/watch?v=YH33KFA6Hng



Frequently Asked Questions

Here are some FAQs your IT department may want to know before giving the unit access to the Internet.

Q. How do I confirm that the controller is working correctly?

A. A status code should be visible in the bottom center of the controller's SETUP/RUN screen. It will be set to DR for DHCP or SR for Static. If the controller has the IP information programmed correctly into it, it will also respond to a ping.

Q. What TCP ports does the controller use?

A. Port 80 is the port to be used for Internet-bound traffic. The controller can also be configured to use port 9090. Controllers with communication card "option H" use port 443.

Q. How much network bandwidth does the controller require?

- **A.** During normal operations about 32 bytes are sent every 10 seconds. When downloads or changes are made this amount can go up to 150 175 bytes, but these events are short in duration and infrequent.
- Q. If the network is unavailable to the controller; does data queue so when the network is available again it is bombarded with this data?
- A. No. The controller will start replacing missing data slowly, once the connection is re-established.

Q. Can the unit be used to contact any other web locations?

A. No, The controller can only contact the WebAdvantage server. The controller has no browser, or messaging capabilities aside from alarm notifications that are sent through the WebAdvantage server.

Q. Is our information secure?

A. Communication between WebAdvantage users is encrypted and the server is hardened to keep your data secure.

Note: If the controller is not statically addressed, it is important to press the Reset command found on the Network Summary menu. This will save any changes to memory and will restart the communications card with new network settings.

Network Infrastructure and Caveats

• All outbound traffic from an Advantage Controls Megatron controller will point to our proprietary servers located at 65.38.24.37 or 67.214.101.196.

Note: All traffic is encrypted for safe communications from the controller to the Advantage controls servers.

• The default outbound port number is 80.

Note: The outbound port can also be configured for 9090 or 443.

- Once communication has been established from the controller to the Advantage Controls servers, the return port(s) number will range from 1024 to 65,535.
- Placing a static route or NAT (Network Address Translation) between the internal IP of the controller and the Advantage Controls servers is acceptable.

Note: A web filter or proxy may block outgoing traffic from the Megaron controller as the information sent is not standard HTTP traffic.

WebAdvantage server address: Go to Setup/Run (HOME) > Configure > Network (WA Network) > Settings > Server and change the value to <u>connect.webadvantage.online:80</u>

If you are having trouble connecting, use IP address <u>65.38.24.37:80</u> Press **ENTER** to confirm.

Note: Megatron MR / MT controllers use port 443. Megatron / XS controller models containing the... H card (i.e., XSCPF5-H), use port :443 H1, H11, H15, H21, H22, H25, H26, H31 models use port :80

Checking Communications Status / Status Codes

Once the appropriate network settings have been entered into the unit, the MegaTron will begin to contact the Web Advantage server automatically. The connection status of the controller can be determined by viewing the Run screen. A two letter code will be in the lower middle section of the RUN screens indicating connection status.

Note: A bar underneath these letters indicates a solid connection.

Status codes for controllers with Option H1, H11, H21, H22 or H31:

- **NC** = Talking to ICM but not yet connected
- **DR** = DHCP Remote Connection (Communicating with WebAdvantage Server)
- **SR** = Static Remote Connection (Communicating with WebAdvantage Server)
- **DL** = DHCP Local Connection (Communicating Locally)
- **SL** = Static Local Connection (Communicating Locally)
- **FL** = DHCP Failed Local Connection (Communications Failure)

Status codes for controllers with Option H:

- **NC** = No Ethernet/Wifi Connection
- **SL** = Static Addressing, No access to web
- **SR** = Static Addressing with Web Access
- DL = DHCP Addressing, No access to web
- **DR** = DHCP Addressing with Web Access
- **SC** = Static Addressing with Web Access, Connection to WebAdvantage
- **DC** = DHCP Addressing with Web Access, Connection to WebAdvantage
- SA = Static Addressing with Web Access, Connection to WebAdvantage is authenticated & completed
- **DA** = DHCP Addressing with Web Access, Connection to WebAdvantage is authenticated & completed

Troubleshooting and Helpful Tips

- Megatron series controllers will respond to a ping once the proper IP configuration has been programmed by the end user.
- If the Megatron Controller is configured for DHCP, navigate to the Main Menu → Configure → Network → Reset menu, to reset the Megatron Controller's IP information.

Note: Resetting the IP information from the Reset menu saves the newest configuration into the memory of the Megatron Controller and will remain upon the next power cycle of the controller.

 When connection has been established between the Megatron controller and the Advantage Controls servers successfully, the Run Screen will display the "DR" or "SR" diagnostic code at the bottom of the screen.

Note: "DR" means that the controller is currently configured for DHCP (Dynamic Host Configuration Protocol). "SR" refers to a statically assigned IP address for the Megatron Controller.

USER ID Setup

Setting Up a USER ID

Before you can view a device, a USER ID must be setup. Note: If you already have a USER ID and are just adding a new device, skip to step 4.

Step 1: Visit https://webadvantage.online or access the registration form with the QR code below.



Step 2: Choose Create Account? at the bottom of the login screen.



Step 3: After completing form click SAVE to create ID.

Note: The email address you add will be your USER ID.

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Enter Email Ado	dress		
Email address			
First Name			
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Middle Name			
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USER ID (email)			
Device Serial #			
Phone:			
Fax: 918-686-6212 Phone: 918-686-62 Email: support@ac	211 Ivantagecontrols		
Note: Please allow	/ 24 hours for p	processir	າg.

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Admins Only: Add Device and Assign USER ID

Setting Up / Accessing a Device

Note: USER ID and Company Access Permissions are required before you can access a device. For creating a USER ID see the Setting Up a USER ID steps on page 17.

Company Access Permissions: If you are not a part of a company already registered with WebAdvantage, please contact your company's WebAdv account manager for device access.

Step 1: Access the WebAdvantage page at <u>https://webadvantage.online</u>.

Note: Only company administrators can add, edit, remove or modify devices, user accounts, history reports. User account permissions only allow for viewing of devices.

Step 2: Choose Administration at top of page.

Step 3: Then choose Manage Devices.

Step 4: Enter the device's **Name** and **Serial Number**. The remaining fields are optional. Click **SAVE** to submit.

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Note: Please allow up to 24 hrs for processing before controller shows in device list.

WebAdvantage support can be reached at 918-686-6211 or via email at <u>support@advantagecontrols.com</u>.

Manage Devices					
Home / Manage Devices					
Add or Edit Device					
	No Logo				
	Choose Logo				
Company:	Advantage Controls				
Name:	Enter name				
Serial Number:	Enter serial number				
Model Number:	Enter model number				
Client Name:	Enter client name				
Physical Location:	Enter physical location				
Cell Router ID#:	Enter cell router id#				
Escalation Alarm Notify:	Enter email01, email02, etc				
Time after initial alarm:	24 hrs				
Send Connection Alarms:	Disabled				
3rd Party Reports:	Disabled				
Notes:	Enter notes				
✓ Save					