WATERPLAY BV MALER

SMARTPLAY CONTROLLER-REMOTE OPERATOR GUIDE

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The following guide will assist you in properly connecting your Waterplay smartPLAY™ controller to your local network and setting up the appropriate program to remotely access your controller.

Connect the smartPLAY[™] controller to your local network

Waterplay's smartPLAY[™] controller comes with a configured router already installed. The smartPLAY[™] controller router is located on the inside of the cabinet on the lefthand side as shown in the image below:





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Once the controller is installed and powered on site, a local network connection will need to be made via the following two methods:

Method 1: Connecting controller directly to internet (this assumes no existing network or router will be used).

- 1. Make sure that router is powered off during hookup.
- 2. Connect Modem directly to the Internet or ETH1 port depending on your model.
- 3. Power on router
- 4. Wait about 5 minutes and test connectivity. You should be able to plug in to any of the other ports and acquire an IP via DHCP that will be in the 192.168.88.x range.
- 5. Verify that DDNS has registered the router correctly. You should be able to ping the routers serial number and get the public IP that it has been attached to. You ping via the following string *serialnumber*.sn.mynetname.net. Replace the serial number with the one on the router sticker located on the back of the router.
- 6. If the IP comes back as 184.68.34.166 that means the unit is still registered with a Waterplay testing IP.
- 7. If you are unable to ping the unit or no IP comes up, there is a chance that the router is not hooked up properly or there is no internet. Reboot the router to rule it out.

Method 2: Port forwarding using another router/existing infrastructure.

- 1. Make sure that the existing network is plugged into the internet port of the smartPLAY[™] controller router. Power cycle the router if the cable was not already attached and the unit powered on.
- 2. You will be required to find out what IP your DHCP server has assigned to the router. This can be found by matching the ETHI: Mac address located at the bottom of the router with your DHCP server leased IP. In addition, your router with have a unique name related to an ORD-##### (your ORD# is shown on the router and on the controller home screen); this will be listed in the DHCP server leases and can be useful in quickly spotting the address leased.
- 3. It is recommended to have a static assignment created on the DHCP server of the router, so the IP does not change.





- 4. After the address has been determined, go into your router's NAT/port forward area, and forward the following ports to the IP of the Water Controller Router:
 - o TCP 20256
 - o TCP 20257
 - o **TCP 502**
 - o TCP 45061

Install and setup the remote operator software (PC)

Follow the link below to download the Unitronics Remote Operator software:

https://unitronicsplc.com/software-visilogic/

Under Software Utilities, download the Remote Operator V1.0.71 utility:

Downloa	\otimes					
Utility Name	Function	Key Fe	eatures	Targeted Users	Download	
Remote Operator V1.0.71	Simultaneously view and operate the HMI panels of multiple PLCs in multiple locations	 Easily place HMI panels side- by-side to monitor distributed systems, or applications in several locations Run the HMI applications via PC keyboard + mouse 		Control room operators Installation Managers	Download 関	
Remote Operator Welcome to the Remote Operator Setup Weight and the setup sequired to install Remote Operator on your computer. The installer will guide you through the steps required to install Remote Operator on your computer. The installer will guide you through the steps required to install Remote Operator on your computer.						
WARNING: This computer program is pr Unauthorized duplication or distribution or or criminal penalities, and will be prosecu	otected by copyright law and international tre if this program, or any portion of it, may result ted to the maximum extent possible under the	aties. n severe civil Iaw.	Install Remote Operator for yourself, or for anyone who uses this computer: Everyone Just me 			
	Cancel < Back	Next >		Cancel	<back next=""></back>	





Open Remote Operator and make sure Remote PLC (this can be renamed for your specific park) is selected:



Select Communication Settings:



Set Connection Type to Ethernet (Call):

Communication Settings			×			
Connection Type:	Serial Serial		•			
Commur	Ethernet (Call)	←				
Serial Port	Etnemet (Listen)					
PC Port: COM1 -	В	aud Rate:	57600 🔻			
Retries: 3	Т	imeout:	1 sec 🔹			
Serial Port - Advanced						
Data Bits: 8	P	arity:	None •			
Stop Bits: One 💌						
Network ID						
Unit ID: 0 (Direct) -						
PLC Name						
Require PLC Name	P	LC Name:				
Check Connection						
PLC Information						
Favorites						
		OK	Cancel			

Select green arrow to toggle to Host Name (default shows Target IP):

Default:

Host Name:

(Communication Settings 🛛 🔍			Communication Settings			
	Connection Type: Ethemet (Call)				Connection Type: Ethemet	(Call)	
L	Communication Parameters				Communication	Parameters	
	Ethemet Target IP: 192.168.0.1	Target Port: 20256	II	- Ethernet - Host:	a.sn.mynetname.net	Target Port: 20256	
	Retries: 3 V	Timeout: 1 sec 🔻	II	Retries:	3	Timeout: 1 sec ▼	



Your site's host name is *"serialnumber*.sn.mynetname.net". The serial number is located on the back of the Waterplay router inside the Waterplay smartPLAY[™] controller.

Target port is 20256

PLC Name is WMI:

Communication Settings X					
Connection Type: Ethemet (C	al) 🔻				
Communication Pa	rameters				
Ethemet					
Host: a.sn.mynetname.net	Target Port: 20256				
Retries: 3	Timeout: 1 sec 🔹				
Ethemet - Advanced					
Protocol: TCP -					
Network ID					
Unit ID: 0 (Direct)					
M90/Jazz PLC					
Force M90, Jazz					
PLC Name					
Require PLC Name	PLC Name: WMI				
Check Connection					
PLC Information					
Favorites					
	OK Cancel				

Select "Check Connection" and a window similar to that shown below will appear. This confirms you have successfully connected to your controller:

Communication	Settings X							
	Connection Type: Ethemet (Call)							
	Communication Parameters							
	PLC Information							
PLC Model:	V700-T20BJ							
HW Revision:	A							
OS Version:	4.3 (04)							
Boot Version:	2.2 (42)							
BinLib Version:	1-4.0 (10)							
Factory Boot:	1.3 (22)							
PLC Name:	WMI							
	Get PLC Information							



If you are presented with a connection attempt failed notification (similar to below), ensure the steps outlined at the beginning of this manual to connect your controller to your local network have been properly followed.

C	Communication Settings ×							
l	Connection Type: Ethemet (Call)							
L	Communication Parameters							
l	Ethemet Host: a.sn.mynetname.net Target Port: 20256							
L	Retries: 3 Timeout: 1 sec -							
	A connection attempt failed because the connected party did not properly respond after a period of time, or established connection failed because connected host has failed to respond 6f30078etI6a.sn.mynetname.net.20256							
Check Connection								
Favorites								
L	OK Cancel							

Close Connection Settings and Save. Remote PLC's can be added, removed, or renamed on the left-hand side:



Go to Cache File and select Create Cache File (*.urc) From PLC:





Enter a File Name (user defined) and select Next. Once the file has been created, select Finish:

Remote Operator .urc file Creator	Remote Operator .urc file Creator			
.urc File Creator: Fonts and Images	.urc File Creator: Fonts and Images			
Warning: During file creation the PLC display enters 'SYSTEM mode'. The PLC continues running, although the HMI application is not visible.	Please wait while Example.urc is being created			
File Name (No path): Example.urc	V File Name (No path): Example.urc			
Read Fonts from PLC	✓ Read Fonts from PLC			
Read Images from PLC	Read Images from PLC			
Cancel Next >	Cancel			
	Importing Image 97/97			

Make sure Use Cache File is selected, and select RUN to connect to the PLC:



You can now use your mouse to navigate the controller screens. Note that the connection may be delayed; wait momentarily after clicking.

When you would like to exit, select STOP to disconnect:





Install and setup the remote operator software (iOS or Android)

Download the Unitronic's Remote Operator app through the App Store or Google Play Store:





Once opened, you will be prompted to create a password after which you will enter the home screen. Select to add a new PLC:







You will then enter the required info and check the PLC connection:

🖬 I ROGERS 🗢	3:00 PM	1 68% 🔲	📲 ROGERS 🗢		РМ	🕈 76% 🔳
Add new PLC	Add new PLC		Add new PLC			?
PLC Nickname PLC name IP Address/Host TCP Port Group name Add to Favorites	Example WMI serialnumber.sn.m 20256 Default Group C	ynetname.net	PLC Nickname PLC name IP Address/Host TCP Port Group name Add tc Cc Connec	Example WMI 184.068. 20256 Default C connection to PLC	034.166 Sroup 1 Success was successful.	
Cance	1	ОК	Cance	el	ОК	

The PLC will then be added to your home screen. When selected, the app will prompt you to download cache from the PLC. Note that this may take a few minutes:





After the cache has been downloaded, you can connect to your PLC and navigate the various screens and settings:





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