

**Partner: AccuWater**  
**Model: R116**  
**Device Type: Irrigation Controller**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	AccuWater R116
<b>CATEGORY:</b>	Miscellaneous
<b>VERSION:</b>	1
<b>SUMMARY:</b>	This module controls functions of the AccuWater R116 Irrigation Controller.
<b>GENERAL NOTES:</b>	This module provides TCP/IP Client control for the AccuWater R116 Irrigation Controller. It also provides solicited feedback for scheduled irrigation records. In order for scheduling to work, time scale must be set to seconds, not milliseconds. This seconds time scale and American date styles function is automatically set through the poll_enable signal. Note: Deleted schedule records may not show as deleted for 10 minutes or until controller server is refreshed.
<b>CRESTRON HARDWARE REQUIRED:</b>	C2 -ENET1 Card or C2 -ENET2 Card
<b>SETUP OF CRESTRON HARDWARE:</b>	TCP/IP Client at Port 5700d
<b>VENDOR FIRMWARE:</b>	Unknown
<b>VENDOR SETUP:</b>	DHCP enable (demo hardware TCP/IP Client is set to 192.168.1.88 – this IP address will likely change in your system)
<b>CABLE DIAGRAM:</b>	Cat 5

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**CONTROL:**

Month_Down	D	Press and hold to change month value.
Day_Up/Down	D	Press and hold to change day value.
Zone_Up/Down	D	Press and hold to change zone value.
Duration_Minutes_Up/Down	D	Press and hold to change minutes duration value.
Hour_Up/Down	D	Press and hold to change hours value.
Minute_Up/Down	D	Press and hold to change minutes value.
Year_Up/Down	D	Press and hold to change years value.
Create_Schedule_Record_2	D	Pulse to create a schedule record with the analog values set from spinners above. Current limits for creating scheduling records is 24 hours in the future.
Delete_Record_*	D	Pulse to abort a schedule record displayed in the schedule table.
Pause_Irrigation_*_Minute	D	Pulse to pause irrigation.
Pause_Irrigation_*_Hour	D	Pulse to pause irrigation.
UnPause_Irrigation	D	Pulse to unpause irrigation.
Set_Date_Time_2	D	Sets the controller's date, time and time zone using spinners on schedule page in combination with OffsetGMT parameter.
Multicast_Status_Enable/Disable	D	Enables or disables multicasting of status information.
Multicast_Weather_Enable/Disable	D	Enables or disables multicasting of weather information.
Push_Status	D	Causes the controller to send status information, once a minute, to a remote server. The raw IP address of the remote server represented as a sequence of bytes. For example, the IP address 192.168.1.100 has the 4 bytes: Byte-1 = 192d, Byte-2 = 168d, Byte-3 = 1d, Byte-4 = 100d
Cancel_Push_Status	D	Causes the controller to stop sending status information to a remote server.
Get_Backup_Schedule_Cycle	D	Retrieves the controller's backup schedule cycle.
Set_Backup_Schedule_Cycle_0/1/2/3	D	Sets the backup schedule cycle.

**Partner: AccuWater**  
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Get_Backup_Schedule_Start	D	Retrieves the controller's backup schedule starting hour.
Set_Backup_Schedule_Start_0-23	D	Sets the backup schedule's starting hour.
Get_Backup_Schedule_Run_Times	D	Retrieves the controller's backup schedule run times. There is one run time per zone. Max is 16.
Set_Backup_Schedule_Run_Times	D	Sets the backup schedule run times. There is one run time per zone.
Reboot_Controller_No_Reset	D	Causes the controller to reboot.
Backup_Runtimes_Up/Down	D	Press and hold to ramp backup runtimes.
Poll_Enable	D	Hold high to enable real-time polling of status every 15 seconds (also sets time scale to seconds).
IP_Connected	D	Feedback from TCP/IP Client indicating that the TCP/IP Client is connected to the AccuWater. Connect this signal name from Connect_F of TCP/IP Client symbol.
Status	A	Analog value showing connection status. Connect this signal name from Status of TCP/IP Client symbol.
From_Device\$	S	Serial signal to be routed from a 2-way serial TCP/IP Client port.

## PARAMETERS:

Push_IP_OCTET_1/2/3/4	P	Parameter holding IP octets for the PushWeather command.
Push_Port_Byte_1/2/3/4	P	Parameter holding IP port bytes 1 - 4 for the PushStatus command. The raw IP address of the remote server represented as a sequence of bytes. For example, the IP address 192.168.1.100 has the 4 bytes: Byte-1 = 192d, Byte-2 = 168d, Byte-3 = 1d, Byte-4 = 100d
TimeOffsetFromGMT	P	Parameter holding TimeOffsetFromGMT as signed decimal value.
Port	P	Port for TCP/IP Client used for Device Connection Logic Module in System Builder. Defaults to 5700d.

## FEEDBACK:

Zone	A	Analog value representing zone.
Duration_Minutes	A	Analog value representing duration in minutes.

**Partner: AccuWater**  
**Model: R116**  
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Hours	A	Analog value representing clock time hours.
Minutes	A	Analog value representing clock time minutes.
Year	A	Analog value representing date year.
Month	A	Analog value representing date month.
Day	A	Analog value representing date day.
Record_*\$	S	Serial string representing a schedule record displayed in schedule table.
Backup_Schedule_Cycle_0/1/2/3_Fb	D	Digital feedback showing status of backup schedule cycle 0-3.
Backup_Schedule_Start_0-23_Fb	D	Digital feedback showing status of backup start hour 0-23.
Backup_Runtimes	A	Analog value to globally set number of backup runtimes.
Global_Backup_Runtimes	A	Analog value for all zones 1-16 returned by get.
Schedule_Record_2_ID\$	S	Serial string representing the record id of last record created.
Connect	D	Will be set high to tell the TCP/IP Client to connect to the AccuWater. Connect this signal name from Connect of TCP/IP Client symbol.
To_Device\$	S	Serial signal to be routed to a 2-way serial TCP/IP Client port.

## TESTING:

OPS USED FOR TESTING:	3.155.1240
SIMPL WINDOWS USED FOR TESTING:	2.08.41
CRES DB USED FOR TESTING:	18.8.8
SYMBOL LIBRARY USED FOR TESTING:	487
SAMPLE PROGRAM:	AccuWater R116 Demo.smw
REVISION HISTORY:	V. 1.0