

## Modbus

### Water Loop Controller Configuration Properties

#### Modbus Object Type: Holding Registers

Name	Default	Min	Max	Units	Modbus Reg #	Multiplier	Focus Screen	Modbus Notes
Device Type	9	9	9	None	1	1	Device	(Not writable) 9=Water Loop Controller
Device Soft Ver	7.4	0	655.35	None	2	100	Device	(Not writable)
Device Hard Ver	2.5	0	0	None	3	10	Device	(Not writable) 2.0=C1000 / 2.5=C1050
Output 1 Setpoint	21	0	100	deg C	4	100	Outputs	
Output 2 Setpoint	21	0	100	deg C	5	100	Outputs	
Output 3 Setpoint	21	0	100	deg C	6	100	Outputs	
Output 4 Setpoint	21	0	100	deg C	7	100	Outputs	
Output 5 Setpoint	21	0	100	deg C	8	100	Outputs	
Output 1 Band	10	1	30	deg C	9	100	Outputs	
Output 2 Band	10	1	30	deg C	10	100	Outputs	
Output 3 Band	10	1	30	deg C	11	100	Outputs	
Output 4 Band	10	1	30	deg C	12	100	Outputs	
Output 5 Band	10	1	30	deg C	13	100	Outputs	
Output 2 Reverse Acting	0	0	1	None	14	1	Outputs	
Output 5 Minimum Value	0	0	100	%	15	1	Outputs	
Net Baud	3	0	5	None	16	1	Baud Rate	0=9600 / 1=19200 / 2=38400 / 3=57600 / 4=76800 / 5=115200
Net Parity	0	0	2	None	17	1	Baud Rate	0=NONE / 1=ODD / 2=EVEN
Net StopBits	0	0	1	None	18	1	Baud Rate	0=1 Stop Bit / 1=2 Stop Bits
RJ45 Baud	3	0	5	None	19	1	Baud Rate	0=9600 / 1=19200 / 2=38400 / 3=57600 / 4=76800 / 5=115200
RJ45 Parity	0	0	2	None	20	1	Baud Rate	0=NONE / 1=ODD / 2=EVEN
RJ45 StopBits	0	0	1	None	21	1	Baud Rate	0=1 Stop Bit / 1=2 Stop Bits
Supply Offset	0	-40	40	deg C	22	100	Calibration	
Return Offset	0	-40	40	deg C	23	100	Calibration	

Location	0	0	65535	None	24	1	Device	Each reg holds 2 chars -- 16 chars max -- 8 regs (Regs 24-31)
Use Bypass Valve (Output 2)	1	0	1	None	32	1	Outputs	
Use Damper (Output 2)	0	0	1	None	33	1	Outputs	
Output 5 Use Differential Band	0	0	1	None	34	1	Outputs	
Heat-Cool Delay	5	0	100	min	35	1	Outputs	
Output 1 Override	255	0	255	None	75	1	Visualisation	0=OFF / 1=ON / ELSE=AUTO
Output 2 Override	255	0	255	None	76	1	Visualisation	0=OFF / 1=ON / ELSE=AUTO
Output 3 Override	255	0	255	None	77	1	Visualisation	0=OFF / 1=ON / ELSE=AUTO
Output 4 Override	255	0	255	None	78	1	Visualisation	0=OFF / 1=ON / ELSE=AUTO
Output 5 Override	255	0	255	%	79	1		0-100=OVERRIDE / ELSE=AUTO
Reset	0	0	1	None	100	1	Device	Set to 1 to cause a reset
Reprogram	0	0	1	None	101	1	Device	Set to 255 to enter reprogram mode (Warning: Irreversible action - Reserved for ProLon Focus software)
Locked Address	0	0	127	None	140	1	Device	Saved address (overrides physical dipswitch address). Set to 0 to return to physical address.

**Modbus**  
**Water Loop Controller Network Variable Outputs**

Modbus Object Type: Input Registers

Name	Units	Modbus Reg #	Mult	Modbus Notes
Supply Temp	deg C	1	100	
Return Temp	deg C	2	100	
Digital Input Status	None	3	1	0=Contact Open (OFF) / 1=Contact Closed (ON)
Output 1 State	None	4	1	0=OFF / 1=ON
Output 2 State	None	5	1	0=OFF / 1=ON
Output 3 State	None	6	1	0=OFF / 1=ON
Output 4 State	None	7	1	0=OFF / 1=ON
Output 5 Value	%	8	1	
Auxiliary Input Temp	deg C	9	100	