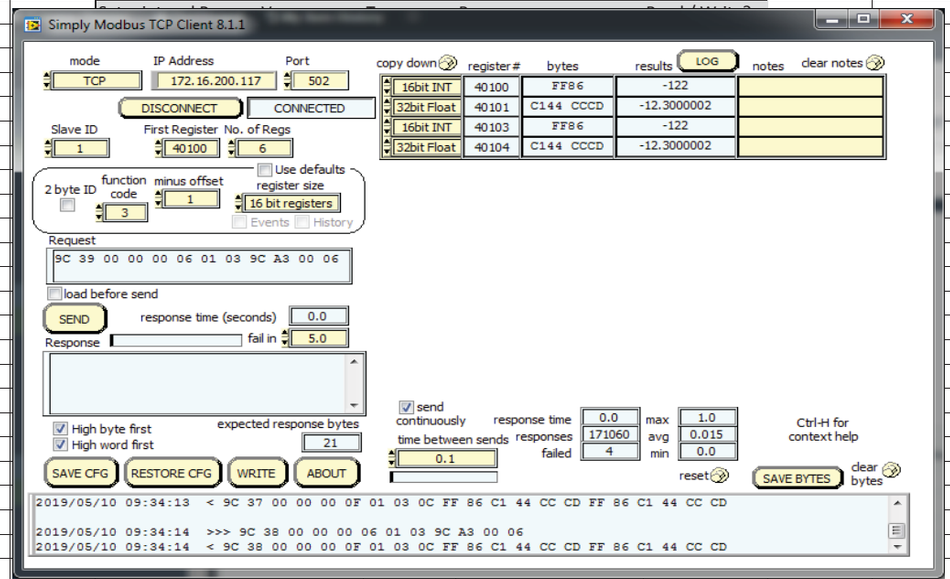
Synergy Controller ModbusTCP Register Map 16-JUNE-2019

Ch 1 Setpoint and Process Vars	Register	Type	Range	Read / Write?
Setpoint (int * 10)	40100	16 Bit Int	-2000 - 5000	R/W
Setpoint (float)	40101 40102	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40103	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40104 40105	32 Bit Float	-200.0 - 500.0	R

Ch 2 Setpoint and Process Vars	Register	Type	Range	Read / Write?
Setpoint (int * 10)	40200	16 Bit Int	-2000 - 5000	R/W
Setpoint (float)	40201 40202	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40203	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40204 40205	32 Bit Float	-200.0 - 500.0	R

Ch 3 Setpoint and Process Vars	Register	Type	Range	Read / Write?
Setpoint (int * 10)	40300	16 Bit Int	-2000 - 5000	R/W
Setpoint (float)	40301 40302	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40303	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40304 40305	32 Bit Float	-200.0 - 500.0	R

Ch 4 Setpoint and Process Vars	Register	Type	Range	Read / Write?
Setpoint (int * 10)	40400	16 Bit Int	-2000 - 5000	R/W
Setpoint (float)	40401 40402	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40403	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40404 40405	32 Bit Float	-200.0 - 500.0	R



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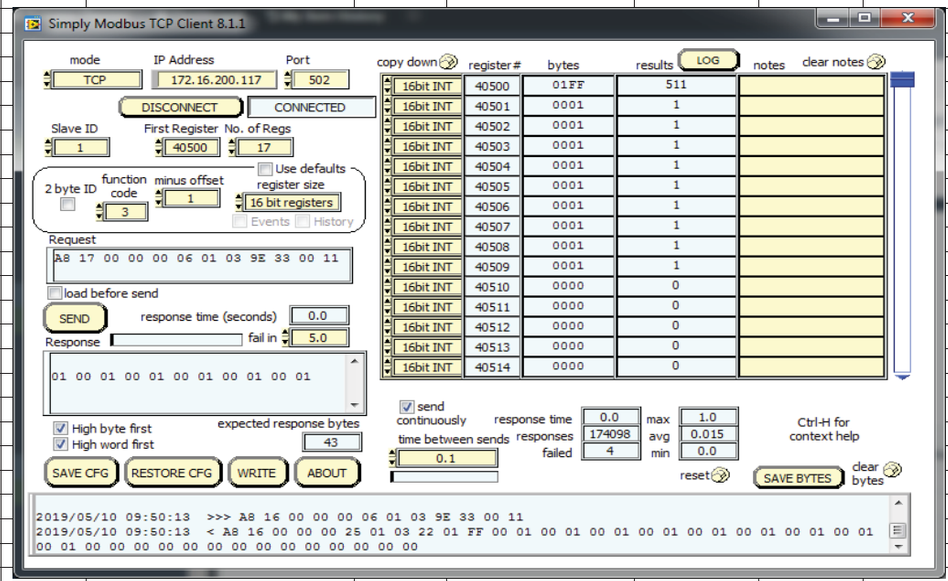
Event Settings	Register	Type	Range	Read / Write?
All Events Mask	40500	16 Bit Int	Int (Bitwise Mask of all Events)	R/W
Event 1	40501	16 Bit Int	0 - Off, 1-On	R/W
Event 2	40502	16 Bit Int	0 - Off, 1-On	R/W
Event 3	40503	16 Bit Int	0 - Off, 1-On	R/W
Event 4	40504	16 Bit Int	0 - Off, 1-On	R/W
Event 5	40505	16 Bit Int	0 - Off, 1-On	R/W
Event 6	40506	16 Bit Int	0 - Off, 1-On	R/W
Event 7	40507	16 Bit Int	0 - Off, 1-On	R/W
Event 8	40508	16 Bit Int	0 - Off, 1-On	R/W
Event 9	40509	16 Bit Int	0 - Off, 1-On	R/W
Event 10	40510	16 Bit Int	0 - Off, 1-On	R/W
Event 11	40511	16 Bit Int	0 - Off, 1-On	R/W
Event 12	40512	16 Bit Int	0 - Off, 1-On	R/W
Event 13	40513	16 Bit Int	0 - Off, 1-On	R/W
Event 14	40514	16 Bit Int	0 - Off, 1-On	R/W
Event 15	40515	16 Bit Int	0 - Off, 1-On	R/W
Event 16	40516	16 Bit Int	0 - Off, 1-On	R/W



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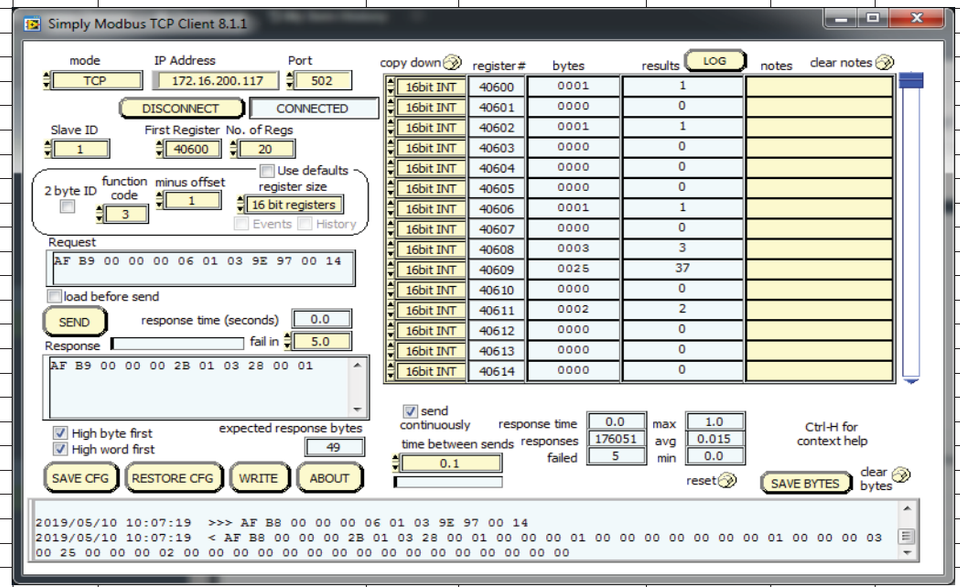
Running State Settings	Register	Type	Range	Read / Write?
Run State	40600	16 Bit Int	0 = Off, 1=Running, 2=Pause, 3=Steady State	R/W
Run From Line	40601	16 Bit Int	0-255	W
Current Step #	40602	16 Bit Int	0-255	R
Step Type	40603	16 Bit Int	Step Type 0-SP, 1-Waitfor, etc.	R
Step Hours Remaining	40604	16 Bit Int	0-65535	R
Step Minutes Remaining	40605	16 Bit Int	0-60	R
Step Seconds Remaining	40606	16 Bit Int	0-60	R
Profile Hours Remaining	40607	16 Bit Int	0-65535	R
Profile Minutes Remaining	40608	16 Bit Int	0-60	R
Profile Seconds Remaining	40609	16 Bit Int	0-60	R
Jump Loops Remaining	40610	16 Bit Int	0-255	R
	40611	16 Bit Int	0-255	R
	40612	16 Bit Int	0-255	R
	40613	16 Bit Int	0-255	R
	40614	16 Bit Int	0-255	R
	40615	16 Bit Int	0-255	R
	40616	16 Bit Int	0-255	R
	40617	16 Bit Int	0-255	R
	40618	16 Bit Int	0-255	R
	40619	16 Bit Int	0-255	R
Jump Loops Remaining (string)	40620	Char (2)	String Jumploop Count or NA	R
	40621			
	40622			
	40623			
	40624			
	40625			
	40626			
	40627			
	40628			
	40629			
Running Profile Name	40630	Char (140)	Loaded Profile Name	R
	...			
	40699			



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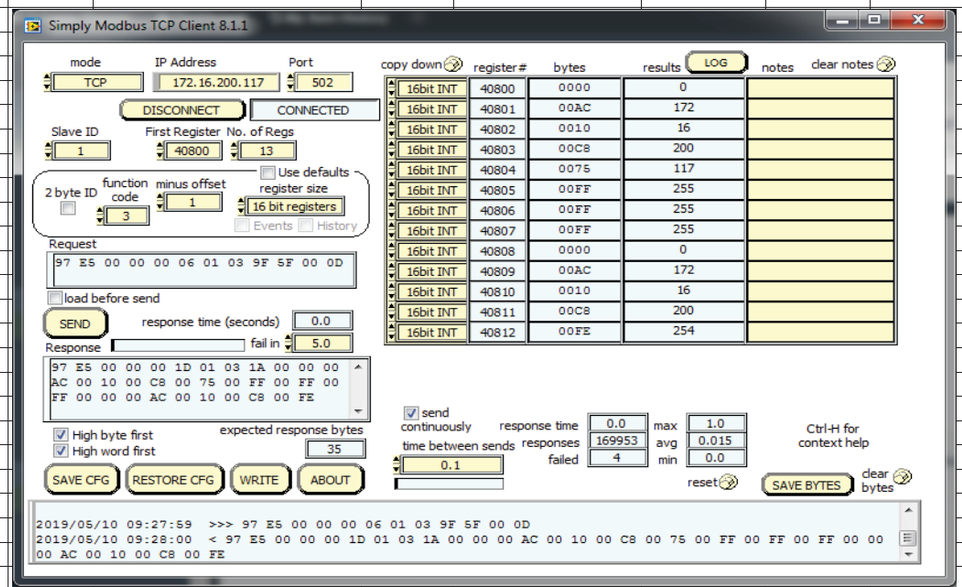
Ethernet Settings	Register	Type	Range	Read / Write?
Ethernet Mode	40800	16 Bit Int	0 = DHCP, 1 = Static	R/W
IP Address	40801	16 Bit Int	First IP Octet	
	40802	16 Bit Int	Second IP Octet	
	40803	16 Bit Int	Third IP Octet	
	40804	16 Bit Int	Fourth IP Octet	R/W
IP Subnet	40805	16 Bit Int	First Subnet Octet	
	40806	16 Bit Int	Second Subnet Octet	
	40807	16 Bit Int	Third Subnet Octet	
	40808	16 Bit Int	Fourth Subnet Octet	R/W
IP Gateway	40809	16 Bit Int	First Gateway Octet	
	40810	16 Bit Int	Second Gateway Octet	
	40811	16 Bit Int	Third Gateway Octet	
	40812	16 Bit Int	Fourth Gateway Octet	R/W



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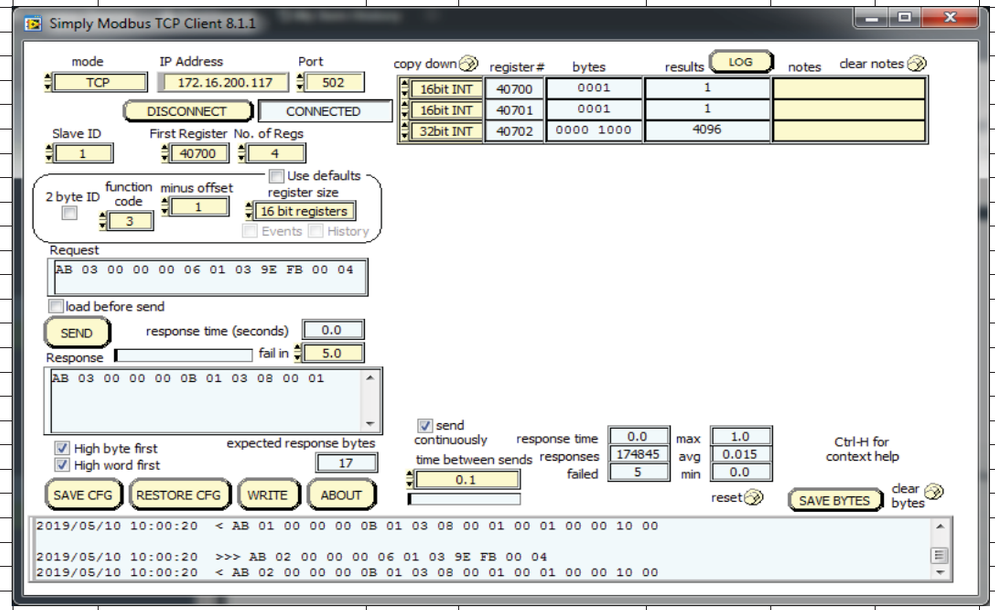
Alarm Settings	Register	Type	Range	Read / Write?
Alarm Count	40700	16 Bit Int	0-65535	R
Active Alarm Count	40701	16 Bit Int	0-65535	R
Alarm Mask	40702	32 Bit Int	Int (Bitwise Mask of all Alarms)	R
	40703			



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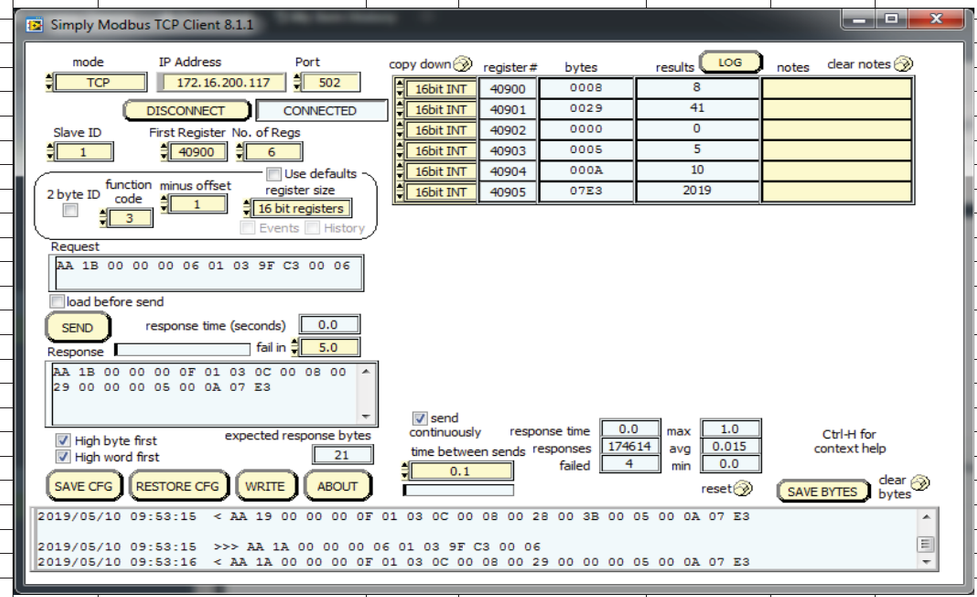
Date and Time	Register	Type	Range	Read / Write?
Hours	40900	16 Bit Int	0-23 Hours	R/W
Minutes	40901	16 Bit Int	0-59 Minutes	R/W
Seconds	40902	16 Bit Int	0-59 Seconds	R/W
Month	40903	16 Bit Int	1-12 Months	R/W
Day	40904	16 Bit Int	1-31 Days	R/W
Year	40905	16 Bit Int	1970-2070 Year	R/W



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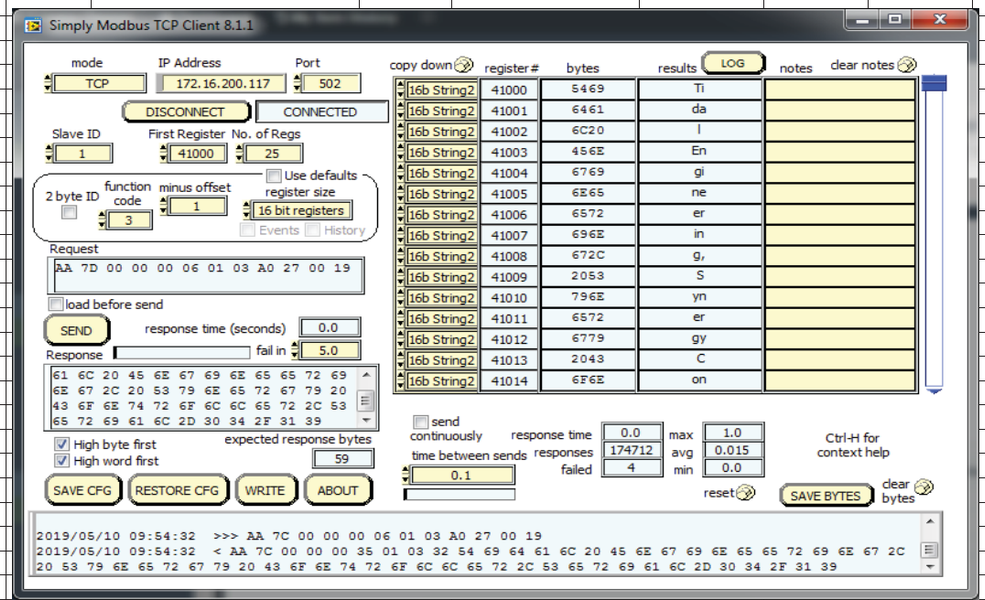
IDN Query	Register	Type	Range	Read / Write?
IDN	41000	Char (2)	IDN String	R
	...	Char (2)		
	41099	Char (2)		



Synergy Controller ModbusTCP Register Map 16-JUNE-2019

Load Profile	Register	Type	Range	Read / Write?
Profile Name	42000	Char (2)	Profile Name (String)	
	...	Char (2)		
	42098	Char (2)		W
Load Profile	42099	16 Bit Int	Non-zero to Load specified profile	W

Save Current Profile	Register	Type	Range	Read / Write?
Profile Name	42100	Char (2)	Profile Name (String)	
	...	Char (2)		
	42198	Char (2)		W
Save Profile	42199	16 Bit Int	Non-zero to Save to specified profile name	W