

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	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40102	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40103	32 Bit Float	-200.0 - 500.0	R
	40104			
	40105			
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	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40202	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40203	32 Bit Float	-200.0 - 500.0	R
	40204			
	40205			
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	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40302	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40303	32 Bit Float	-200.0 - 500.0	R
	40304			
	40305			
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	32 Bit Float	-200.0 - 500.0	R/W
Process Variable (int * 10)	40402	16 Bit Int	-2000 - 5000	R
Process Variable (float)	40403	32 Bit Float	-200.0 - 500.0	R
	40404			
	40405			

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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
	...			
Running Profile Name	40699	Char (140)	Loaded Profile Name	R

The screenshot displays the 'Simply Modbus TCP Client 8.1.1' application. The interface is divided into several sections:

- Mode:** TCP, IP Address: 172.16.200.117, Port: 502.
- Slave ID:** 1, First Register: 40600, No. of Regs: 20.
- Function Code:** 3 (Write Single Register), Minus Offset: 1, Register Size: 16 bit registers.
- Request:** AF B9 00 00 00 06 01 03 9E 97 00 14.
- Response:** AF B9 00 00 00 2B 01 03 28 00 01.
- Log:** A table showing 16-bit registers (40600 to 40614) and their values (0001 to 0000).
- Status:** Connected, Response time (seconds): 0.0, Fail in: 5.0.
- Options:** High byte first, High word first, expected response bytes: 49.
- Buttons:** SEND, SAVE CFG, RESTORE CFG, WRITE, ABOUT.
- Footer:** 2019/05/10 10:07:19 >>> AF B8 00 00 00 06 01 03 9E 97 00 14

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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	R/W
	40802	16 Bit Int	Second IP Octet	
	40803	16 Bit Int	Third IP Octet	
	40804	16 Bit Int	Fourth IP Octet	
IP Subnet	40805	16 Bit Int	First Subnet Octet	R/W
	40806	16 Bit Int	Second Subnet Octet	
	40807	16 Bit Int	Third Subnet Octet	
	40808	16 Bit Int	Fourth Subnet Octet	
IP Gateway	40809	16 Bit Int	First Gateway Octet	R/W
	40810	16 Bit Int	Second Gateway Octet	
	40811	16 Bit Int	Third Gateway Octet	
	40812	16 Bit Int	Fourth Gateway Octet	

Simply Modbus TCP Client 2.1.1

mode: TCP IP Address: 172.16.200.117 Port: 502

DISCONNECT CONNECTED

Slave ID: 1 First Register No. of Regs: 40800 13

2 byte ID: function code: 3 minus offset: 1 register size: 16 bit registers

Request: 97 E5 00 00 00 06 01 03 9F 5F 00 0D

load before send

SEND response time (seconds): 0.0

Response: fail in: 5.0

Request hex: 97 E5 00 00 00 1D 01 03 1A 00 00 00 AC 00 10 00 C8 00 75 00 FF 00 FF 00 FF 00 FE

High byte first High word first

expected response bytes: 35

SAVE CFG RESTORE CFG WRITE ABOUT

Log:

copy down	register #	bytes	results	notes	clear notes
16bit INT	40800	0000	0		
16bit INT	40801	00AC	172		
16bit INT	40802	0010	16		
16bit INT	40803	00C8	200		
16bit INT	40804	0075	117		
16bit INT	40805	00FF	255		
16bit INT	40806	00FF	255		
16bit INT	40807	00FF	255		
16bit INT	40808	0000	0		
16bit INT	40809	00AC	172		
16bit INT	40810	0010	16		
16bit INT	40811	00C8	200		
16bit INT	40812	00FE	254		

send continuously response time: 0.0 max: 1.0

time between sends: 169953 responses: 4 avg: 0.015

failed: 0.1

Ctrl-H for context help

reset SAVE BYTES clear bytes

2019/05/10 09:27:59 >>> 97 E5 00 00 00 06 01 03 9F 5F 00 0D

2019/05/10 09:28:00 < 97 E5 00 00 00 1D 01 03 1A 00 00 00 AC 00 10 00 C8 00 75 00 FF 00 FF 00 FF 00 00

00 AC 00 10 00 C8 00 FE

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Simple Modbus TCP Client 8.1.1

mode: TCP IP Address: 172.16.200.117 Port: 502

DISCONNECT CONNECTED

Slave ID: 1 First Register: 40900 No. of Regs: 6

2 byte ID: 3 function code: 3 minus offset: 1 register size: 16 bit registers

Request: AA 1B 00 00 00 06 01 03 9F C3 00 06

load before send

SEND response time (seconds): 0.0

Response: fail in: 5.0

Response: AA 1B 00 00 00 0F 01 03 0C 00 08 00 29 00 00 00 05 00 0A 07 E3

High byte first High word first expected response bytes: 21

SAVE CFG RESTORE CFG WRITE ABOUT

send continuously response time: 0.0 max: 1.0

time between sends: 0.1 avg: 0.015

failed: 4 min: 0.0

reset SAVE BYTES clear bytes

copy down	register #	bytes	results	LOG	notes	clear notes
16bit INT	40900	0008	8			
16bit INT	40901	0029	41			
16bit INT	40902	0000	0			
16bit INT	40903	0005	5			
16bit INT	40904	000A	10			
16bit INT	40905	07E3	2019			

2019/05/10 09:53:15 < AA 19 00 00 00 0F 01 03 0C 00 08 00 28 00 3B 00 05 00 0A 07 E3

2019/05/10 09:53:15 >>> AA 1A 00 00 00 06 01 03 9F C3 00 06

2019/05/10 09:53:16 < AA 1A 00 00 00 0F 01 03 0C 00 08 00 29 00 00 00 05 00 0A 07 E3

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

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