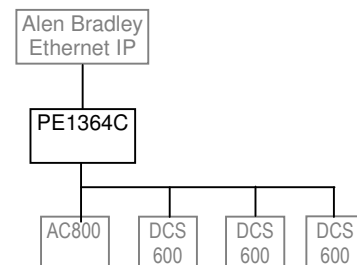
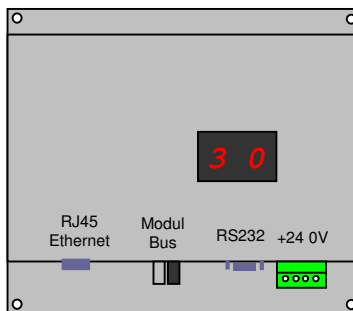


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Firmware PE1364C V3		ModulBus(DDCS) – Ethernet IP converter PE1364C		

1. General



PE1364C is a protocol converter designed act as up to 24 Slaves on the Modulbus or DriveBus (DDCS). This give possibility to transfer data to and from AC800 to Ethernet IP (CIP protocol). The unit is enclosed in a metal box with connection terminal for Power supply. Connector type 9 pins Dsub for Service port RS232 (Mudbus RTU 9600Baud). The ModuleBus (DDCS) has optical fiber for transmit and received data. The TCP IP connection is made with RJ45 ethernet connector. The PE1364C can also act as an Modbus TCP server.

2. Technical description

2.1 Dimension and mounting

PE1364C is mounted in a cubicle or in a separate enclosure together with 24V DC supply. To obtain the best immunity to electric noise the PE1364C must be electrically connected to cubicle through 4 M5 screws in each corner.

Size: 196 x 170 mm (w x h)
 Required mounting deep: 50mm
 Mounting screws: 4 x M5
 Mounting holes position: 176 x 160mm(w x h)

2.2 Technical data

Power supply 24V DC (12-30V DC)
 Current consumption 170mA at 24V

Enclosure class IP00
 Operation 5..+40 °C., Storage -40..+70 °C.

Communication to ABB AC800/AC80

PE1364C is connected in a ring or Star with 1.0mm plastic fiber POF or 200µm Hard Clad Silica HCS fiber.

Opto fiber: Transmission speed 4Mbit

Max length : 200m of 200µmHCS or 15m 1.0mm plastic

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2.3 Ethernet Communication

Communication to Ethernet IP

The AnyBus S ModbusTCP card is connected to Ethernet with RJ45 ethernet connector
 In ModbusTCP protocol addr 40001 to 40576 are used for signals from AC800 to Ethernet IP.
 Addr 40577 and 40578 are used for Status information.
 Addr 41025-41600 are used for signal from Ethernet IP to AC800.

If Ethernet IP CIP protocol is used then Unscheduled messages can be sent.

Parameter Data Input mapping in 6 Attributes (Arrays), Each array has 96 Integers
 Attribute 7 use value 0 and 1 for status information.

Parameter Data Output mapping in 6 Attributes (Arrays), Each array has 96 Integers

DDCS communication.

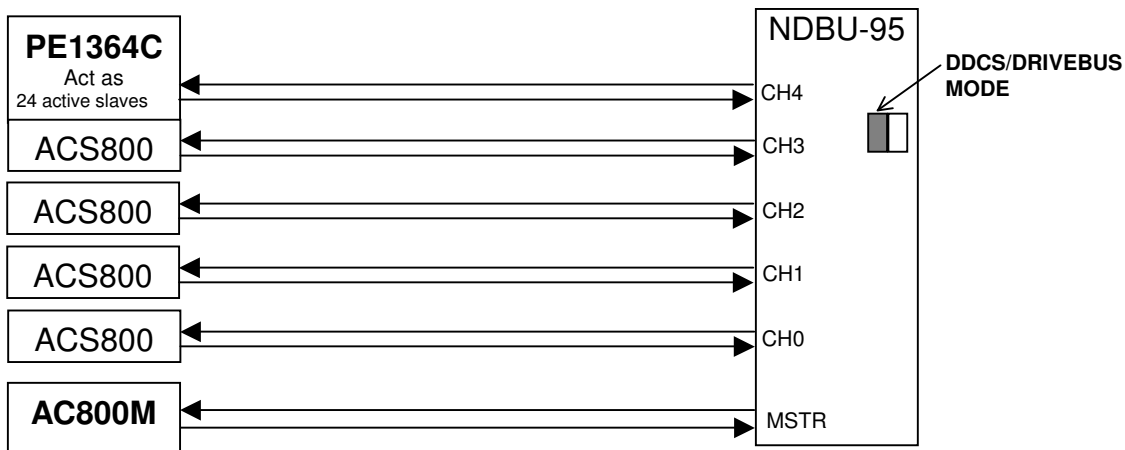
PE1364C act as 24 slaves with 8 datasets in each slave.

Total 576 Integer (16 bit) from AC800 and total 576 Integers to AC800

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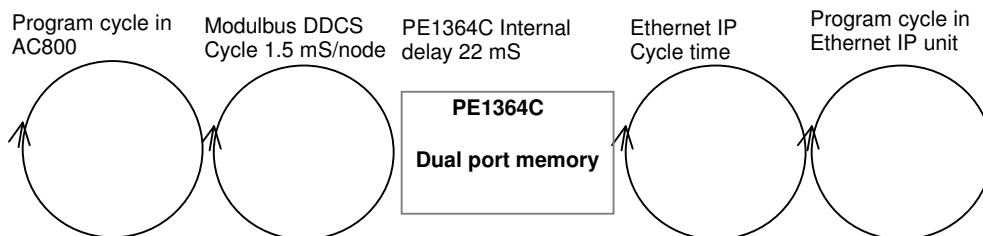
ModulBus(DDCS) – Ethernet IP converter PE1364C

2.4 Connection examples



2.5 Data delay

A delay of 22ms for copying data to and from Ethernet IP side has to be added to the bus cycle times for DDCS and Ethernet IP, to get the total delay time for signals.



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2.6 Status indications on PE1364C board

A red Led is indication Internal Program run error.

The communication status is indicated on a two-segment display, which will indicate the actual status and error.

Digit 1	Digit 2	Description
P	1-9	Initiation phases, (The Red Led on PE1364C is flashing during initiation.) 1=Waiting for AnyBus S card to startup 2=Soft Reset of AnyBys S card 3=Waiting for AnuBus S reset 4=Hardware check of AnyBus S card 5=StartInit Order to AnyBus S card 6=Initiation of Buffer size of AnyBus S card 7=Initiation of Parameter data Input Mapping 8= Initiation of Parameter data Output Mapping 9=End of initiation of AnyBus S card
L	0 1 2 3 4 5 6 7 8 9 A b	Display of IP addr, Subnet mask and Gateway addr This sequence will be displayed at startup of PE1364C Indication of first byte of Actual IP Hex code eg 192, Hex C0 Indication of second byte of Actual IP Hex code eg 168, Hex A8 Indication of third byte of Actual IP Hex code eg 1, Hex 01 Indication of fourth byte of Actual IP Hex code eg 20, Hex 14 Indication of first byte of Actual Subnet maskHex code eg 255, Hex FF Indication of second byte of Actual Subnet maskHex code eg 255, Hex FF Indication of third byte of Actual Subnet maskHex code eg 255, Hex FF Indication of forth byte of Actual Subnet maskHex code eg 0, Hex 00 Indication of first byte of Actual Gateway addr Hex code eg 0 Hex 00 Indication of second byte of Actual Gateway addr Hex code eg 0 Hex 00 Indication of third byte of Actual Gateway addr Hex code eg 0 Hex 00 Indication of fourth byte of Actual Gateway addr Hex code eg 0 Hex 00
X	0	X is DDCS communication status X=0 No DDCS communication X=1 Data from DDCS Master received X=3 Data exchange with DDCS Master
Y	Z	11-13 Error at hardware reset 21-23 Error at Hardware test 31-33 Error at Start Init of AnyBus S 41-43 Error at Any Init of Input/output mapping 51-53 Error at Net configuration 54-56 Error when reading Net configuration 71-73 Error at AnyBus end of Initiation 74-76 Error at Parameter Data Input Mapping 77-79 Error at Parameter Data Output Mapping 81-83 Error when Save to Flash memory 84-86 Error when read from Flash memory 87-8B Error when disable Modbus TCP 91-93 Error when writing to extern memory

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2.7 Dip switch setup

S1	Normal	FUNCTION
1	Off	Start node number offset On =+16 (Cluster number +1)
2	Off	Start node number offset On =+32 (Cluster number +2)
3	Off	Start node number offset On =+64 (Cluster number +4)
4	Off	On=Swapping high and low byte data
5	Off	Off=Ring, On=Star (NDBU-85)
6	Off	ON=Disable ModbusTCP server
7		
8		

S2	Normal	FUNCTION
1	On	Opto Transmitter Intensity 1 0=low,3=high
2	Off	Opto Transmitter Intensity 2 0=low,3=high
3	Off	ON =Setting of IP address
4	Off	CHANGE=Step to next IP setting
5	Off	Set to On to Save IP addr set by Anybys IP config Set back to off when PE1364C has restarted.
6	Off	Display Special Function select 1-7
7	Off	Display Special Function select 1-7
8	Off	Display Special Function select 1-7

Special Status indication depending on S2.5-8 settings

S2.6-8	Description
6 On	Counter for number of AC800 DDCS timeouts
8 On	Display First error code
6 & 8 On	Display Last Error code

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2.7.1 Start node address offset

PE1364C can act as up to 20 active slaves on DDCS.
The first slave number can be selected

S1.1	S1.2	S1.3	DriveBus Addr	ModuleBus addr
OFF	OFF	OFF	Addr 1-24	
ON	OFF	OFF	Addr 17-40	Addr 101-112 and 201-712
OFF	ON	OFF	Addr 33-56	Addr 201-212 and 301-712
ON	ON	OFF	Addr 49-72	Addr 301-312 and 401-712
OFF	OFF	ON	Addr 65-88	Addr 401-412, and 501-712
ON	OFF	ON	Addr 81-104	Addr 501-512 and 601-712
OFF	ON	ON	Addr 97-120	Addr 601-612 and 701-712

2.7.2 Swapping high and low data byte

With this DIP ON the Integer data word high byte is swapped with the low byte before reading and writing to Ethernet IP side.

2.7.3 Opto transmitter intensity

Transmitter can have 4 levels of intensity. Set Both S2.1 and S2.2 to off for minimum intensity.

- S2.1 & S2.2 Off Lowest Intensity level 0
- S2.1 On Intensity level 1
- S2.2 On Intensity level 2
- S2.1 & S2.2 On Highest Intensity level 3

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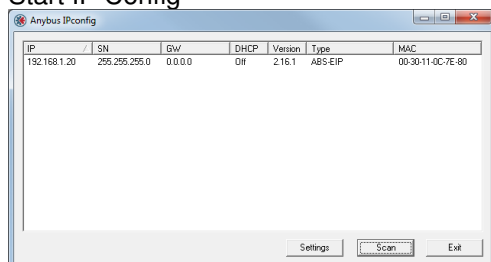
2.7.4 Setting of IP address

2.7.4.1 Setting IP address by Anybus IP Config

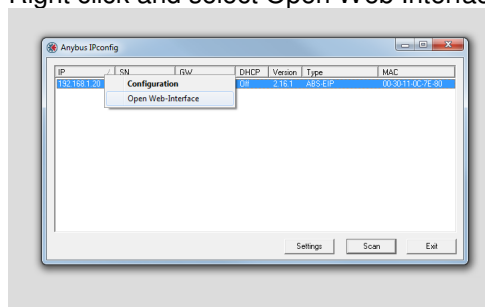
Firmware V3 or later.

Download and install the Anybus IP Config program from www.hms.se

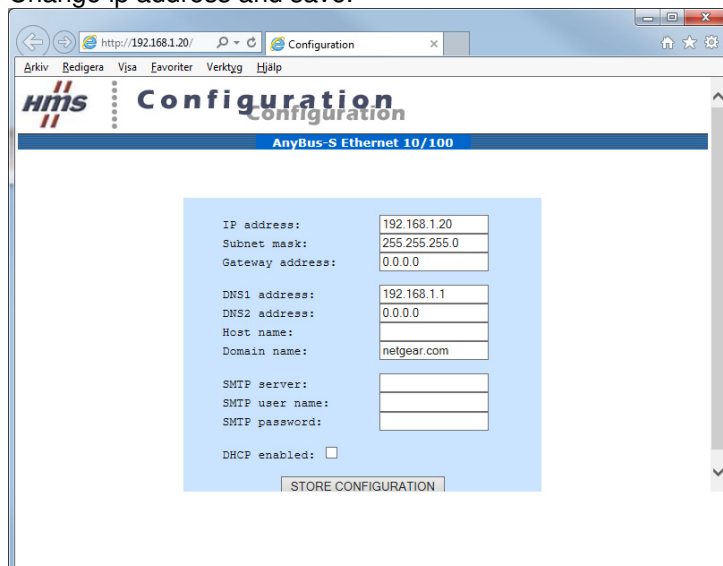
Start IP Config



Right click and select Open Web Interface



Change ip address and save.



To change the settings in flash memory set DIP S2.5 to On
Now PE1364C will restart. After restart the DIP S2.5 can be set to Off.

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2.7.4.2 Setting IP address by DIP switches and save to Flash memory*This procedure will temporary use DIP switches S1 for IP address setting. The SW1 DIP must be set to original value when this procedure is ready.*

The default setting for this mode is IP addr 192.168.1.20 Subnet mask 255.255.255.0 Gateway address 0.0.0.0

It is total 12 settings that can be done.

At any time S2.3 can be set to off for saving the inputted values. The default values are used for the steps remaining. This is useful if the Subnet mask and Gateway addr are same as defaults.

Dip SW binary value: SW1.1=on is Binary 1, SW1.2=On Binary 10, Sw1.8=Binary 10000000

Note that ModuleBus (DDCS) must be connected to make Modbus TCP active.

1. Set SW2.3 to ON and restart PE1364C.
2. Wait until text L0 is displayed on the 2 character LED
3. Set DIP SW1 to first byte in IP address e.g. 192 (Bin 11000000, Hex C0)
4. Set SW2.4 to ON
5. Now text L1 is displayed on 2 character LED.
6. Set DIP SW1 to second byte in IP address e.g. 168 (Bin 10101000, Hex A8)
7. Set SW2.4 to Off
8. Now text L2 is displayed on 2 character LED.
9. Set DIP SW1 to third byte in IP address e.g. 1 (Bin 00000001, Hex 01)
10. Set SW2.4 to ON
11. Now text L3 is displayed on 2 character LED.
12. Set DIP SW1 to fourth byte in IP address e.g. 20 (Bin 00010100, Hex 14)
13. Set SW2.4 to Off
14. Now text L4 is displayed on 2 character LED.
15. Set DIP SW1 to first byte in Subnet mask address e.g. 255 (Bin 11111111, Hex FF)
16. Set SW2.4 to ON
17. Now text L5 is displayed on 2 character LED.
18. Set DIP SW1 to second byte in Subnet mask address e.g. 255 (Bin 11111111, Hex FF)
19. Set SW2.4 to Off
20. Now text L6 is displayed on 2 character LED.
21. Set DIP SW1 to third byte in Subnet mask address e.g. 255 (Bin 11111111, Hex FF)
22. Set SW2.4 to ON
23. Now text L7 is displayed on 2 character LED.
24. Set DIP SW1 to fourth byte in IP address e.g. 0 (Bin 00000000, Hex 00)
25. Set SW2.4 to Off
26. Now text L8 is displayed on 2 character LED.
27. Set DIP SW1 to first byte in Gateway address e.g. 0 (Bin 00000000, Hex 00)
28. Set SW2.4 to ON
29. Now text L9 is displayed on 2 character LED.
30. Set DIP SW1 to second byte in Gateway address e.g. 0 (Bin 00000000, Hex 00)
31. Set SW2.4 to Off
32. Now text LA is displayed on 2 character LED.
33. Set DIP SW1 to third byte in Gateway address e.g. 0 (Bin 00000000, Hex 00)
34. Set SW2.4 to ON
35. Now text Lb is displayed on 2 character LED.
36. Set DIP SW1 to fourth byte in Gateway address e.g. 0 (Bin 00000000, Hex 00)
37. Set SW2.4 to Off
38. Now text LC is displayed on 2 character LED
39. Set both SW2.3 and SW2.4 to Off

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2.8 Mapping of Memory

Status signals ModuleBus – Modbus TCP

Status byte	Status to ModbusTCP	Modbus TCP data	Ethernet IP
0=No comm.... 1=Master poll	→		Parameter input
Node 1-16	Bit0 = Node 1 Bit1 = Node 2 Bit2 = Node 3 Bit3 = Node 4 Bit4 = Node 5 Bit5 = Node 6 Bit6 = Node 7 Bit7 = Node 8 Bit8 = Node 9 Bit9 = Node 10 Bit10 = Node 11 Bit11 = Node 12 Bit12 = Node 13 Bit13 = Node 14 Bit14 = Node 15 Bit15 = Node 16	Word addr 40577	Attribute 7 Data 000
Node 17-24	Bit0 = Node 17 Bit1 = Node 18 Bit2 = Node 19 Bit3 = Node 20 Bit4 = Node 21 Bit5 = Node 22 Bit6 = Node 23 Bit7 = Node 24	Word addr 40578	Attribute 7 Data 001

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Node 1 (101 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40001	Attribute 1 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 40002	Attribute 1 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 40003	Attribute 1 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 40004	Attribute 1 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 40005	Attribute 1 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 40006	Attribute 1 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 40007	Attribute 1 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 40008	Attribute 1 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 40009	Attribute 1 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 40010	Attribute 1 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 40011	Attribute 1 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 40012	Attribute 1 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 40013	Attribute 1 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 40014	Attribute 1 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 40015	Attribute 1 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 40016	Attribute 1 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 40017	Attribute 1 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 40018	Attribute 1 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 40019	Attribute 1 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 40020	Attribute 1 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 40021	Attribute 1 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 40022	Attribute 1 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 40023	Attribute 1 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 40024	Attribute 1 Data 023

Node 1 (101 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41025	Attribute 1 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 41026	Attribute 1 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 41027	Attribute 1 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 41028	Attribute 1 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 41029	Attribute 1 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 41030	Attribute 1 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 41031	Attribute 1 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 41032	Attribute 1 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 41033	Attribute 1 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 41034	Attribute 1 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 41035	Attribute 1 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 41036	Attribute 1 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 41037	Attribute 1 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 41038	Attribute 1 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 41039	Attribute 1 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 41040	Attribute 1 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 41041	Attribute 1 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 41042	Attribute 1 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 41043	Attribute 1 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 41044	Attribute 1 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 41045	Attribute 1 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 41046	Attribute 1 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 41047	Attribute 1 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 41048	Attribute 1 Data 023

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Node 2 (102 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40025	Attribute 1 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 40026	Attribute 1 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 40027	Attribute 1 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 40028	Attribute 1 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 40029	Attribute 1 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 40030	Attribute 1 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 40031	Attribute 1 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 40032	Attribute 1 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 40033	Attribute 1 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 40034	Attribute 1 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 40035	Attribute 1 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 40036	Attribute 1 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 40037	Attribute 1 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 40038	Attribute 1 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 40039	Attribute 1 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 40040	Attribute 1 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 40041	Attribute 1 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 40042	Attribute 1 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 40043	Attribute 1 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 40044	Attribute 1 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 40045	Attribute 1 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 40046	Attribute 1 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 40047	Attribute 1 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 40048	Attribute 1 Data 047

Node 2 (102 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41049	Attribute 1 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 41050	Attribute 1 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 41051	Attribute 1 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 41052	Attribute 1 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 41053	Attribute 1 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 41054	Attribute 1 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 41055	Attribute 1 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 41056	Attribute 1 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 41057	Attribute 1 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 41058	Attribute 1 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 41059	Attribute 1 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 41060	Attribute 1 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 41061	Attribute 1 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 41062	Attribute 1 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 41063	Attribute 1 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 41064	Attribute 1 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 41065	Attribute 1 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 41066	Attribute 1 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 41067	Attribute 1 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 41068	Attribute 1 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 41069	Attribute 1 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 41070	Attribute 1 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 41071	Attribute 1 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 41072	Attribute 1 Data 047

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Node 3 (103 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data First DS=1	AC800 Data First DS =10	Value	Modbus TCP address	Ethernet IP Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40049	Attribute 1 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 40050	Attribute 1 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 40051	Attribute 1 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 40052	Attribute 1 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 40053	Attribute 1 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 40054	Attribute 1 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 40055	Attribute 1 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 40056	Attribute 1 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 40057	Attribute 1 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 40058	Attribute 1 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 40059	Attribute 1 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 40060	Attribute 1 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 40061	Attribute 1 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 40062	Attribute 1 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 40063	Attribute 1 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 40064	Attribute 1 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 40065	Attribute 1 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 40066	Attribute 1 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 40067	Attribute 1 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 40068	Attribute 1 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 40069	Attribute 1 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 40070	Attribute 1 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 40071	Attribute 1 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 40072	Attribute 1 Data 071

Node 3 (103 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data First DS=1	AC800 Data First DS =10	Value	Modbus TCP address	Ethernet IP Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41073	Attribute 1 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 41074	Attribute 1 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 41075	Attribute 1 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 41076	Attribute 1 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 41077	Attribute 1 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 41078	Attribute 1 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 41079	Attribute 1 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 41080	Attribute 1 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 41081	Attribute 1 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 41082	Attribute 1 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 41083	Attribute 1 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 41084	Attribute 1 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 41085	Attribute 1 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 41086	Attribute 1 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 41087	Attribute 1 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 41088	Attribute 1 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 41089	Attribute 1 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 41090	Attribute 1 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 41091	Attribute 1 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 41092	Attribute 1 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 41093	Attribute 1 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 41094	Attribute 1 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 41095	Attribute 1 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 41096	Attribute 1 Data 071

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Node 4 (104 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40073	Attribute 1 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 40074	Attribute 1 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 40075	Attribute 1 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 40076	Attribute 1 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 40077	Attribute 1 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 40078	Attribute 1 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 40079	Attribute 1 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 40080	Attribute 1 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 40081	Attribute 1 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 40082	Attribute 1 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 40083	Attribute 1 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 40084	Attribute 1 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 40085	Attribute 1 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 40086	Attribute 1 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 40087	Attribute 1 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 40088	Attribute 1 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 40089	Attribute 1 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 40090	Attribute 1 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 40091	Attribute 1 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 40092	Attribute 1 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 40093	Attribute 1 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 40094	Attribute 1 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 40095	Attribute 1 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 40096	Attribute 1 Data 095

Node 4 (104 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41097	Attribute 1 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 41098	Attribute 1 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 41099	Attribute 1 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 41100	Attribute 1 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 41101	Attribute 1 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 41102	Attribute 1 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 41103	Attribute 1 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 41104	Attribute 1 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 41105	Attribute 1 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 41106	Attribute 1 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 41107	Attribute 1 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 41108	Attribute 1 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 41109	Attribute 1 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 41110	Attribute 1 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 41111	Attribute 1 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 41112	Attribute 1 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 41113	Attribute 1 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 41114	Attribute 1 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 41115	Attribute 1 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 41116	Attribute 1 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 41117	Attribute 1 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 41118	Attribute 1 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 41119	Attribute 1 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 41120	Attribute 1 Data 095

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Node 5 (105 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40097	Attribute 2 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 40098	Attribute 2 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 40099	Attribute 2 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 40100	Attribute 2 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 40101	Attribute 2 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 40102	Attribute 2 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 40103	Attribute 2 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 40104	Attribute 2 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 40105	Attribute 2 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 40106	Attribute 2 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 40107	Attribute 2 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 40108	Attribute 2 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 40109	Attribute 2 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 40110	Attribute 2 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 40111	Attribute 2 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 40112	Attribute 2 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 40113	Attribute 2 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 40114	Attribute 2 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 40115	Attribute 2 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 40116	Attribute 2 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 40117	Attribute 2 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 40118	Attribute 2 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 40119	Attribute 2 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 40120	Attribute 2 Data 023

Node 5 (105 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41121	Attribute 2 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 41122	Attribute 2 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 41123	Attribute 2 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 41124	Attribute 2 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 41125	Attribute 2 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 41126	Attribute 2 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 41127	Attribute 2 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 41128	Attribute 2 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 41129	Attribute 2 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 41130	Attribute 2 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 41131	Attribute 2 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 41132	Attribute 2 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 41133	Attribute 2 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 41134	Attribute 2 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 41135	Attribute 2 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 41136	Attribute 2 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 41137	Attribute 2 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 41138	Attribute 2 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 41139	Attribute 2 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 41140	Attribute 2 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 41141	Attribute 2 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 41142	Attribute 2 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 41143	Attribute 2 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 41144	Attribute 2 Data 023

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Node 6 (106 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40121	Attribute 2 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 40122	Attribute 2 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 40123	Attribute 2 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 40124	Attribute 2 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 40125	Attribute 2 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 40126	Attribute 2 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 40127	Attribute 2 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 40128	Attribute 2 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 40129	Attribute 2 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 40130	Attribute 2 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 40131	Attribute 2 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 40132	Attribute 2 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 40133	Attribute 2 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 40134	Attribute 2 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 40135	Attribute 2 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 40136	Attribute 2 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 40137	Attribute 2 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 40138	Attribute 2 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 40139	Attribute 2 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 40140	Attribute 2 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 40141	Attribute 2 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 40142	Attribute 2 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 40143	Attribute 2 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 40144	Attribute 2 Data 047

Node 6 (106 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41145	Attribute 2 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 41146	Attribute 2 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 41147	Attribute 2 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 41148	Attribute 2 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 41149	Attribute 2 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 41150	Attribute 2 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 41151	Attribute 2 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 41152	Attribute 2 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 41153	Attribute 2 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 41154	Attribute 2 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 41155	Attribute 2 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 41156	Attribute 2 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 41157	Attribute 2 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 41158	Attribute 2 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 41159	Attribute 2 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 41160	Attribute 2 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 41161	Attribute 2 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 41162	Attribute 2 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 41163	Attribute 2 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 41164	Attribute 2 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 41165	Attribute 2 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 41166	Attribute 2 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 41167	Attribute 2 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 41168	Attribute 2 Data 047

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		Sven-Erik Karlsson	187050	
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Node 7 (107 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40145	Attribute 2 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 40146	Attribute 2 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 40147	Attribute 2 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 40148	Attribute 2 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 40149	Attribute 2 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 40150	Attribute 2 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 40151	Attribute 2 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 40152	Attribute 2 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 40153	Attribute 2 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 40154	Attribute 2 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 40155	Attribute 2 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 40156	Attribute 2 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 40157	Attribute 2 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 40158	Attribute 2 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 40159	Attribute 2 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 40160	Attribute 2 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 40161	Attribute 2 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 40162	Attribute 2 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 40163	Attribute 2 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 40164	Attribute 2 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 40165	Attribute 2 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 40166	Attribute 2 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 40167	Attribute 2 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 40168	Attribute 2 Data 071

Node 7 (107 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41169	Attribute 2 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 41170	Attribute 2 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 41171	Attribute 2 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 41172	Attribute 2 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 41173	Attribute 2 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 41174	Attribute 2 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 41175	Attribute 2 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 41176	Attribute 2 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 41177	Attribute 2 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 41178	Attribute 2 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 41179	Attribute 2 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 41180	Attribute 2 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 41181	Attribute 2 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 41182	Attribute 2 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 41183	Attribute 2 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 41184	Attribute 2 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 41185	Attribute 2 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 41186	Attribute 2 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 41187	Attribute 2 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 41188	Attribute 2 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 41189	Attribute 2 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 41190	Attribute 2 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 41191	Attribute 2 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 41192	Attribute 2 Data 071

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		Sven-Erik Karlsson	187050	
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Node 8 (108 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40169	Attribute 2 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 40170	Attribute 2 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 40171	Attribute 2 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 40172	Attribute 2 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 40173	Attribute 2 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 40174	Attribute 2 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 40175	Attribute 2 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 40176	Attribute 2 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 40177	Attribute 2 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 40178	Attribute 2 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 40179	Attribute 2 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 40180	Attribute 2 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 40181	Attribute 2 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 40182	Attribute 2 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 40183	Attribute 2 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 40184	Attribute 2 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 40185	Attribute 2 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 40186	Attribute 2 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 40187	Attribute 2 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 40188	Attribute 2 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 40189	Attribute 2 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 40190	Attribute 2 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 40191	Attribute 2 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 40192	Attribute 2 Data 095

Node 8 (108 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41193	Attribute 2 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 41194	Attribute 2 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 41195	Attribute 2 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 41196	Attribute 2 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 41197	Attribute 2 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 41198	Attribute 2 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 41199	Attribute 2 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 41200	Attribute 2 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 41201	Attribute 2 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 41202	Attribute 2 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 41203	Attribute 2 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 41204	Attribute 2 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 41205	Attribute 2 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 41206	Attribute 2 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 41207	Attribute 2 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 41208	Attribute 2 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 41209	Attribute 2 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 41210	Attribute 2 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 41211	Attribute 2 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 41212	Attribute 2 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 41213	Attribute 2 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 41214	Attribute 2 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 41215	Attribute 2 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 41216	Attribute 2 Data 095

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Node 9 (109 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40193	Attribute 3 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 40194	Attribute 3 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 40195	Attribute 3 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 40196	Attribute 3 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 40197	Attribute 3 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 40198	Attribute 3 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 40199	Attribute 3 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 40200	Attribute 3 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 40201	Attribute 3 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 40202	Attribute 3 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 40203	Attribute 3 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 40204	Attribute 3 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 40205	Attribute 3 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 40206	Attribute 3 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 40207	Attribute 3 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 40208	Attribute 3 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 40209	Attribute 3 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 40210	Attribute 3 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 40211	Attribute 3 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 40212	Attribute 3 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 40213	Attribute 3 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 40214	Attribute 3 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 40215	Attribute 3 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 40216	Attribute 3 Data 023

Node 9 (109 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41217	Attribute 3 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 41218	Attribute 3 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 41219	Attribute 3 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 41220	Attribute 3 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 41221	Attribute 3 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 41222	Attribute 3 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 41223	Attribute 3 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 41224	Attribute 3 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 41225	Attribute 3 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 41226	Attribute 3 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 41227	Attribute 3 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 41228	Attribute 3 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 41229	Attribute 3 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 41230	Attribute 3 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 41231	Attribute 3 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 41232	Attribute 3 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 41233	Attribute 3 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 41234	Attribute 3 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 41235	Attribute 3 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 41236	Attribute 3 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 41237	Attribute 3 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 41238	Attribute 3 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 41239	Attribute 3 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 41240	Attribute 3 Data 023

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Node 10 (110 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40217	Attribute 3 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 40218	Attribute 3 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 40219	Attribute 3 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 40220	Attribute 3 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 40221	Attribute 3 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 40222	Attribute 3 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 40223	Attribute 3 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 40224	Attribute 3 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 40225	Attribute 3 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 40226	Attribute 3 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 40227	Attribute 3 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 40228	Attribute 3 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 40229	Attribute 3 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 40230	Attribute 3 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 40231	Attribute 3 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 40232	Attribute 3 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 40233	Attribute 3 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 40234	Attribute 3 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 40235	Attribute 3 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 40236	Attribute 3 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 40237	Attribute 3 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 40238	Attribute 3 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 40239	Attribute 3 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 40240	Attribute 3 Data 047

Node 10 (110 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41241	Attribute 3 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 41242	Attribute 3 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 41243	Attribute 3 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 41244	Attribute 3 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 41245	Attribute 3 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 41246	Attribute 3 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 41247	Attribute 3 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 41248	Attribute 3 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 41249	Attribute 3 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 41250	Attribute 3 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 41251	Attribute 3 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 41252	Attribute 3 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 41253	Attribute 3 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 41254	Attribute 3 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 41255	Attribute 3 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 41256	Attribute 3 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 41257	Attribute 3 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 41258	Attribute 3 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 41259	Attribute 3 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 41260	Attribute 3 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 41261	Attribute 3 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 41262	Attribute 3 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 41263	Attribute 3 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 41264	Attribute 3 Data 047

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Node 11 (111 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40241	Attribute 3 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 40242	Attribute 3 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 40243	Attribute 3 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 40244	Attribute 3 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 40245	Attribute 3 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 40246	Attribute 3 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 40247	Attribute 3 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 40248	Attribute 3 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 40249	Attribute 3 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 40250	Attribute 3 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 40251	Attribute 3 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 40252	Attribute 3 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 40253	Attribute 3 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 40254	Attribute 3 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 40255	Attribute 3 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 40256	Attribute 3 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 40257	Attribute 3 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 40258	Attribute 3 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 40259	Attribute 3 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 40260	Attribute 3 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 40261	Attribute 3 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 40262	Attribute 3 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 40263	Attribute 3 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 40264	Attribute 3 Data 071

Node 11 (111 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41265	Attribute 3 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 41266	Attribute 3 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 41267	Attribute 3 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 41268	Attribute 3 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 41269	Attribute 3 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 41270	Attribute 3 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 41271	Attribute 3 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 41272	Attribute 3 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 41273	Attribute 3 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 41274	Attribute 3 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 41275	Attribute 3 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 41276	Attribute 3 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 41277	Attribute 3 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 41278	Attribute 3 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 41279	Attribute 3 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 41280	Attribute 3 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 41281	Attribute 3 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 41282	Attribute 3 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 41283	Attribute 3 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 41284	Attribute 3 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 41285	Attribute 3 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 41286	Attribute 3 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 41287	Attribute 3 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 41288	Attribute 3 Data 071

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Node 12 (112 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40265	Attribute 3 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 40266	Attribute 3 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 40267	Attribute 3 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 40268	Attribute 3 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 40269	Attribute 3 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 40270	Attribute 3 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 40271	Attribute 3 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 40272	Attribute 3 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 40273	Attribute 3 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 40274	Attribute 3 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 40275	Attribute 3 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 40276	Attribute 3 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 40277	Attribute 3 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 40278	Attribute 3 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 40279	Attribute 3 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 40280	Attribute 3 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 40281	Attribute 3 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 40282	Attribute 3 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 40283	Attribute 3 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 40284	Attribute 3 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 40285	Attribute 3 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 40286	Attribute 3 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 40287	Attribute 3 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 40288	Attribute 3 Data 095

Node 12 (112 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41289	Attribute 3 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 41290	Attribute 3 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 41291	Attribute 3 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 41292	Attribute 3 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 41293	Attribute 3 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 41294	Attribute 3 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 41295	Attribute 3 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 41296	Attribute 3 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 41297	Attribute 3 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 41298	Attribute 3 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 41299	Attribute 3 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 41300	Attribute 3 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 41301	Attribute 3 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 41302	Attribute 3 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 41303	Attribute 3 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 41304	Attribute 3 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 41305	Attribute 3 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 41306	Attribute 3 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 41307	Attribute 3 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 41308	Attribute 3 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 41309	Attribute 3 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 41310	Attribute 3 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 41311	Attribute 3 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 41312	Attribute 3 Data 095

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Node 13 (201 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40289	Attribute 4 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 40290	Attribute 4 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 40291	Attribute 4 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 40292	Attribute 4 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 40293	Attribute 4 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 40294	Attribute 4 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 40295	Attribute 4 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 40296	Attribute 4 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 40297	Attribute 4 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 40298	Attribute 4 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 40299	Attribute 4 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 40300	Attribute 4 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 40301	Attribute 4 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 40302	Attribute 4 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 40303	Attribute 4 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 40304	Attribute 4 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 40305	Attribute 4 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 40306	Attribute 4 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 40307	Attribute 4 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 40308	Attribute 4 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 40309	Attribute 4 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 40310	Attribute 4 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 40311	Attribute 4 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 40312	Attribute 4 Data 023

Node 13 (201 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41313	Attribute 4 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 41314	Attribute 4 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 41315	Attribute 4 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 41316	Attribute 4 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 41317	Attribute 4 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 41318	Attribute 4 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 41319	Attribute 4 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 41320	Attribute 4 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 41321	Attribute 4 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 41322	Attribute 4 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 41323	Attribute 4 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 41324	Attribute 4 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 41325	Attribute 4 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 41326	Attribute 4 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 41327	Attribute 4 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 41328	Attribute 4 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 41329	Attribute 4 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 41330	Attribute 4 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 41331	Attribute 4 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 41332	Attribute 4 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 41333	Attribute 4 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 41334	Attribute 4 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 41335	Attribute 4 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 41336	Attribute 4 Data 023

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Node 14 (202 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40313	Attribute 4 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 40314	Attribute 4 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 40315	Attribute 4 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 40316	Attribute 4 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 40317	Attribute 4 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 40318	Attribute 4 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 40319	Attribute 4 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 40320	Attribute 4 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 40321	Attribute 4 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 40322	Attribute 4 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 40323	Attribute 4 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 40324	Attribute 4 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 40325	Attribute 4 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 40326	Attribute 4 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 40327	Attribute 4 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 40328	Attribute 4 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 40329	Attribute 4 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 40330	Attribute 4 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 40331	Attribute 4 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 40332	Attribute 4 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 40333	Attribute 4 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 40334	Attribute 4 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 40335	Attribute 4 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 40336	Attribute 4 Data 047

Node 14 (202 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41337	Attribute 4 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 41338	Attribute 4 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 41339	Attribute 4 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 41340	Attribute 4 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 41341	Attribute 4 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 41342	Attribute 4 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 41343	Attribute 4 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 41344	Attribute 4 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 41345	Attribute 4 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 41346	Attribute 4 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 41347	Attribute 4 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 41348	Attribute 4 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 41349	Attribute 4 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 41350	Attribute 4 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 41351	Attribute 4 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 41352	Attribute 4 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 41353	Attribute 4 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 41354	Attribute 4 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 41355	Attribute 4 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 41356	Attribute 4 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 41357	Attribute 4 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 41358	Attribute 4 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 41359	Attribute 4 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 41360	Attribute 4 Data 047

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Node 15 (203 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40337	Attribute 4 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 40338	Attribute 4 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 40339	Attribute 4 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 40340	Attribute 4 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 40341	Attribute 4 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 40342	Attribute 4 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 40343	Attribute 4 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 40344	Attribute 4 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 40345	Attribute 4 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 40346	Attribute 4 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 40347	Attribute 4 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 40348	Attribute 4 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 40349	Attribute 4 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 40350	Attribute 4 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 40351	Attribute 4 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 40352	Attribute 4 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 40353	Attribute 4 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 40354	Attribute 4 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 40355	Attribute 4 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 40356	Attribute 4 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 40357	Attribute 4 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 40358	Attribute 4 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 40359	Attribute 4 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 40360	Attribute 4 Data 071

Node 15 (203 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41361	Attribute 4 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 41362	Attribute 4 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 41363	Attribute 4 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 41364	Attribute 4 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 41365	Attribute 4 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 41366	Attribute 4 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 41367	Attribute 4 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 41368	Attribute 4 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 41369	Attribute 4 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 41370	Attribute 4 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 41371	Attribute 4 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 41372	Attribute 4 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 41373	Attribute 4 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 41374	Attribute 4 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 41375	Attribute 4 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 41376	Attribute 4 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 41377	Attribute 4 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 41378	Attribute 4 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 41379	Attribute 4 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 41380	Attribute 4 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 41381	Attribute 4 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 41382	Attribute 4 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 41383	Attribute 4 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 41384	Attribute 4 Data 071

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		Sven-Erik Karlsson	187050	
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Node 16 (204 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40361	Attribute 4 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 40362	Attribute 4 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 40363	Attribute 4 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 40364	Attribute 4 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 40365	Attribute 4 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 40366	Attribute 4 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 40367	Attribute 4 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 40368	Attribute 4 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 40369	Attribute 4 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 40370	Attribute 4 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 40371	Attribute 4 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 40372	Attribute 4 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 40373	Attribute 4 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 40374	Attribute 4 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 40375	Attribute 4 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 40376	Attribute 4 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 40377	Attribute 4 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 40378	Attribute 4 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 40379	Attribute 4 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 40380	Attribute 4 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 40381	Attribute 4 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 40382	Attribute 4 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 40383	Attribute 4 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 40384	Attribute 4 Data 095

Node 16 (204 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41385	Attribute 4 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 41386	Attribute 4 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 41387	Attribute 4 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 41388	Attribute 4 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 41389	Attribute 4 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 41390	Attribute 4 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 41391	Attribute 4 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 41392	Attribute 4 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 41393	Attribute 4 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 41394	Attribute 4 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 41395	Attribute 4 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 41396	Attribute 4 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 41397	Attribute 4 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 41398	Attribute 4 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 41399	Attribute 4 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 41400	Attribute 4 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 41401	Attribute 4 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 41402	Attribute 4 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 41403	Attribute 4 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 41404	Attribute 4 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 41405	Attribute 4 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 41406	Attribute 4 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 41407	Attribute 4 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 41408	Attribute 4 Data 095

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Node 17 (205 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40385	Attribute 5 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 40386	Attribute 5 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 40387	Attribute 5 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 40388	Attribute 5 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 40389	Attribute 5 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 40390	Attribute 5 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 40391	Attribute 5 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 40392	Attribute 5 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 40393	Attribute 5 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 40394	Attribute 5 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 40395	Attribute 5 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 40396	Attribute 5 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 40397	Attribute 5 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 40398	Attribute 5 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 40399	Attribute 5 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 40400	Attribute 5 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 40401	Attribute 5 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 40402	Attribute 5 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 40403	Attribute 5 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 40404	Attribute 5 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 40405	Attribute 5 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 40406	Attribute 5 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 40407	Attribute 5 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 40408	Attribute 5 Data 023

Node 17 (205 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41409	Attribute 5 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 41410	Attribute 5 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 41411	Attribute 5 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 41412	Attribute 5 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 41413	Attribute 5 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 41414	Attribute 5 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 41415	Attribute 5 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 41416	Attribute 5 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 41417	Attribute 5 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 41418	Attribute 5 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 41419	Attribute 5 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 41420	Attribute 5 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 41421	Attribute 5 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 41422	Attribute 5 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 41423	Attribute 5 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 41424	Attribute 5 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 41425	Attribute 5 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 41426	Attribute 5 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 41427	Attribute 5 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 41428	Attribute 5 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 41429	Attribute 5 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 41430	Attribute 5 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 41431	Attribute 5 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 41432	Attribute 5 Data 023

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Node 18 (206 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40409	Attribute 5 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 40410	Attribute 5 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 40411	Attribute 5 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 40412	Attribute 5 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 40413	Attribute 5 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 40414	Attribute 5 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 40415	Attribute 5 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 40416	Attribute 5 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 40417	Attribute 5 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 40418	Attribute 5 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 40419	Attribute 5 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 40420	Attribute 5 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 40421	Attribute 5 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 40422	Attribute 5 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 40423	Attribute 5 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 40424	Attribute 5 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 40425	Attribute 5 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 40426	Attribute 5 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 40427	Attribute 5 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 40428	Attribute 5 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 40429	Attribute 5 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 40430	Attribute 5 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 40431	Attribute 5 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 40432	Attribute 5 Data 047

Node 18 (206 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41433	Attribute 5 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 41434	Attribute 5 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 41435	Attribute 5 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 41436	Attribute 5 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 41437	Attribute 5 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 41438	Attribute 5 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 41439	Attribute 5 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 41440	Attribute 5 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 41441	Attribute 5 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 41442	Attribute 5 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 41443	Attribute 5 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 41444	Attribute 5 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 41445	Attribute 5 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 41446	Attribute 5 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 41447	Attribute 5 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 41448	Attribute 5 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 41449	Attribute 5 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 41450	Attribute 5 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 41451	Attribute 5 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 41452	Attribute 5 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 41453	Attribute 5 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 41454	Attribute 5 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 41455	Attribute 5 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 41456	Attribute 5 Data 047

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Node 19 (207 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40433	Attribute 5 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 40434	Attribute 5 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 40435	Attribute 5 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 40436	Attribute 5 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 40437	Attribute 5 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 40438	Attribute 5 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 40439	Attribute 5 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 40440	Attribute 5 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 40441	Attribute 5 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 40442	Attribute 5 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 40443	Attribute 5 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 40444	Attribute 5 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 40445	Attribute 5 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 40446	Attribute 5 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 40447	Attribute 5 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 40448	Attribute 5 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 40449	Attribute 5 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 40450	Attribute 5 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 40451	Attribute 5 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 40452	Attribute 5 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 40453	Attribute 5 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 40454	Attribute 5 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 40455	Attribute 5 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 40456	Attribute 5 Data 071

Node 19 (207 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41457	Attribute 5 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 41458	Attribute 5 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 41459	Attribute 5 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 41460	Attribute 5 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 41461	Attribute 5 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 41462	Attribute 5 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 41463	Attribute 5 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 41464	Attribute 5 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 41465	Attribute 5 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 41466	Attribute 5 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 41467	Attribute 5 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 41468	Attribute 5 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 41469	Attribute 5 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 41470	Attribute 5 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 41471	Attribute 5 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 41472	Attribute 5 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 41473	Attribute 5 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 41474	Attribute 5 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 41475	Attribute 5 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 41476	Attribute 5 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 41477	Attribute 5 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 41478	Attribute 5 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 41479	Attribute 5 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 41480	Attribute 5 Data 071

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Node 20 (208 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40457	Attribute 5 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 40458	Attribute 5 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 40459	Attribute 5 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 40460	Attribute 5 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 40461	Attribute 5 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 40462	Attribute 5 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 40463	Attribute 5 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 40464	Attribute 5 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 40465	Attribute 5 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 40466	Attribute 5 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 40467	Attribute 5 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 40468	Attribute 5 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 40469	Attribute 5 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 40470	Attribute 5 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 40471	Attribute 5 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 40472	Attribute 5 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 40473	Attribute 5 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 40474	Attribute 5 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 40475	Attribute 5 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 40476	Attribute 5 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 40477	Attribute 5 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 40478	Attribute 5 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 40479	Attribute 5 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 40480	Attribute 5 Data 095

Node 20 (208 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41481	Attribute 5 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 41482	Attribute 5 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 41483	Attribute 5 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 41484	Attribute 5 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 41485	Attribute 5 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 41486	Attribute 5 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 41487	Attribute 5 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 41488	Attribute 5 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 41489	Attribute 5 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 41490	Attribute 5 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 41491	Attribute 5 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 41492	Attribute 5 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 41493	Attribute 5 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 41494	Attribute 5 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 41495	Attribute 5 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 41496	Attribute 5 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 41497	Attribute 5 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 41498	Attribute 5 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 41499	Attribute 5 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 41500	Attribute 5 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 41501	Attribute 5 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 41502	Attribute 5 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 41503	Attribute 5 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 41504	Attribute 5 Data 095

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Node 21 (209 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40481	Attribute 6 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 40482	Attribute 6 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 40483	Attribute 6 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 40484	Attribute 6 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 40485	Attribute 6 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 40486	Attribute 6 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 40487	Attribute 6 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 40488	Attribute 6 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 40489	Attribute 6 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 40490	Attribute 6 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 40491	Attribute 6 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 40492	Attribute 6 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 40493	Attribute 6 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 40494	Attribute 6 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 40495	Attribute 6 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 40496	Attribute 6 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 40497	Attribute 6 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 40498	Attribute 6 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 40499	Attribute 6 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 40500	Attribute 6 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 40501	Attribute 6 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 40502	Attribute 6 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 40503	Attribute 6 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 40504	Attribute 6 Data 023

Node 21 (209 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41505	Attribute 6 Data 000
DS1.12	DS10.12	-32768..32767	Word addr 41506	Attribute 6 Data 001
DS1.13	DS10.13	-32768..32767	Word addr 41507	Attribute 6 Data 002
DS3.11	DS12.11	-32768..32767	Word addr 41508	Attribute 6 Data 003
DS3.12	DS12.12	-32768..32767	Word addr 41509	Attribute 6 Data 004
DS3.13	DS12.13	-32768..32767	Word addr 41510	Attribute 6 Data 005
DS5.11	DS14.11	-32768..32767	Word addr 41511	Attribute 6 Data 006
DS5.12	DS14.12	-32768..32767	Word addr 41512	Attribute 6 Data 007
DS5.13	DS14.13	-32768..32767	Word addr 41513	Attribute 6 Data 008
DS7.11	DS16.11	-32768..32767	Word addr 41514	Attribute 6 Data 009
DS7.12	DS16.12	-32768..32767	Word addr 41515	Attribute 6 Data 010
DS7.13	DS16.13	-32768..32767	Word addr 41516	Attribute 6 Data 011
DS9.11	DS18.11	-32768..32767	Word addr 41517	Attribute 6 Data 012
DS9.12	DS18.12	-32768..32767	Word addr 41518	Attribute 6 Data 013
DS9.13	DS18.13	-32768..32767	Word addr 41519	Attribute 6 Data 014
DS11.11	DS20.11	-32768..32767	Word addr 41520	Attribute 6 Data 015
DS11.12	DS20.12	-32768..32767	Word addr 41521	Attribute 6 Data 016
DS11.13	DS20.13	-32768..32767	Word addr 41522	Attribute 6 Data 017
DS13.11	DS22.11	-32768..32767	Word addr 41523	Attribute 6 Data 018
DS13.12	DS22.12	-32768..32767	Word addr 41524	Attribute 6 Data 019
DS13.13	DS22.13	-32768..32767	Word addr 41525	Attribute 6 Data 020
DS15.11	DS24.11	-32768..32767	Word addr 41526	Attribute 6 Data 021
DS15.12	DS24.12	-32768..32767	Word addr 41527	Attribute 6 Data 022
DS15.13	DS24.13	-32768..32767	Word addr 41528	Attribute 6 Data 023

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Node 22 (210 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40505	Attribute 6 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 40506	Attribute 6 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 40507	Attribute 6 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 40508	Attribute 6 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 40509	Attribute 6 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 40510	Attribute 6 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 40511	Attribute 6 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 40512	Attribute 6 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 40513	Attribute 6 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 40514	Attribute 6 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 40515	Attribute 6 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 40516	Attribute 6 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 40517	Attribute 6 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 40518	Attribute 6 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 40519	Attribute 6 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 40520	Attribute 6 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 40521	Attribute 6 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 40522	Attribute 6 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 40523	Attribute 6 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 40524	Attribute 6 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 40525	Attribute 6 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 40526	Attribute 6 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 40527	Attribute 6 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 40528	Attribute 6 Data 047

Node 22 (210 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41529	Attribute 6 Data 024
DS1.12	DS10.12	-32768..32767	Word addr 41530	Attribute 6 Data 025
DS1.13	DS10.13	-32768..32767	Word addr 41531	Attribute 6 Data 026
DS3.11	DS12.11	-32768..32767	Word addr 41532	Attribute 6 Data 027
DS3.12	DS12.12	-32768..32767	Word addr 41533	Attribute 6 Data 028
DS3.13	DS12.13	-32768..32767	Word addr 41534	Attribute 6 Data 029
DS5.11	DS14.11	-32768..32767	Word addr 41535	Attribute 6 Data 030
DS5.12	DS14.12	-32768..32767	Word addr 41536	Attribute 6 Data 031
DS5.13	DS14.13	-32768..32767	Word addr 41537	Attribute 6 Data 032
DS7.11	DS16.11	-32768..32767	Word addr 41538	Attribute 6 Data 033
DS7.12	DS16.12	-32768..32767	Word addr 41539	Attribute 6 Data 034
DS7.13	DS16.13	-32768..32767	Word addr 41540	Attribute 6 Data 035
DS9.11	DS18.11	-32768..32767	Word addr 41541	Attribute 6 Data 036
DS9.12	DS18.12	-32768..32767	Word addr 41542	Attribute 6 Data 037
DS9.13	DS18.13	-32768..32767	Word addr 41543	Attribute 6 Data 038
DS11.11	DS20.11	-32768..32767	Word addr 41544	Attribute 6 Data 039
DS11.12	DS20.12	-32768..32767	Word addr 41545	Attribute 6 Data 040
DS11.13	DS20.13	-32768..32767	Word addr 41546	Attribute 6 Data 041
DS13.11	DS22.11	-32768..32767	Word addr 41547	Attribute 6 Data 042
DS13.12	DS22.12	-32768..32767	Word addr 41548	Attribute 6 Data 043
DS13.13	DS22.13	-32768..32767	Word addr 41549	Attribute 6 Data 044
DS15.11	DS24.11	-32768..32767	Word addr 41550	Attribute 6 Data 045
DS15.12	DS24.12	-32768..32767	Word addr 41551	Attribute 6 Data 046
DS15.13	DS24.13	-32768..32767	Word addr 41552	Attribute 6 Data 047

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Node 23 (211 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40529	Attribute 6 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 40530	Attribute 6 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 40531	Attribute 6 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 40532	Attribute 6 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 40533	Attribute 6 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 40534	Attribute 6 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 40535	Attribute 6 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 40536	Attribute 6 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 40537	Attribute 6 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 40538	Attribute 6 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 40539	Attribute 6 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 40540	Attribute 6 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 40541	Attribute 6 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 40542	Attribute 6 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 40543	Attribute 6 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 40544	Attribute 6 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 40545	Attribute 6 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 40546	Attribute 6 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 40547	Attribute 6 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 40548	Attribute 6 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 40549	Attribute 6 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 40550	Attribute 6 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 40551	Attribute 6 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 40552	Attribute 6 Data 071

Node 23 (211 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41553	Attribute 6 Data 048
DS1.12	DS10.12	-32768..32767	Word addr 41554	Attribute 6 Data 049
DS1.13	DS10.13	-32768..32767	Word addr 41555	Attribute 6 Data 050
DS3.11	DS12.11	-32768..32767	Word addr 41556	Attribute 6 Data 051
DS3.12	DS12.12	-32768..32767	Word addr 41557	Attribute 6 Data 052
DS3.13	DS12.13	-32768..32767	Word addr 41558	Attribute 6 Data 053
DS5.11	DS14.11	-32768..32767	Word addr 41559	Attribute 6 Data 054
DS5.12	DS14.12	-32768..32767	Word addr 41560	Attribute 6 Data 055
DS5.13	DS14.13	-32768..32767	Word addr 41561	Attribute 6 Data 056
DS7.11	DS16.11	-32768..32767	Word addr 41562	Attribute 6 Data 057
DS7.12	DS16.12	-32768..32767	Word addr 41563	Attribute 6 Data 058
DS7.13	DS16.13	-32768..32767	Word addr 41564	Attribute 6 Data 059
DS9.11	DS18.11	-32768..32767	Word addr 41565	Attribute 6 Data 060
DS9.12	DS18.12	-32768..32767	Word addr 41566	Attribute 6 Data 061
DS9.13	DS18.13	-32768..32767	Word addr 41567	Attribute 6 Data 062
DS11.11	DS20.11	-32768..32767	Word addr 41568	Attribute 6 Data 063
DS11.12	DS20.12	-32768..32767	Word addr 41569	Attribute 6 Data 064
DS11.13	DS20.13	-32768..32767	Word addr 41570	Attribute 6 Data 065
DS13.11	DS22.11	-32768..32767	Word addr 41571	Attribute 6 Data 066
DS13.12	DS22.12	-32768..32767	Word addr 41572	Attribute 6 Data 067
DS13.13	DS22.13	-32768..32767	Word addr 41573	Attribute 6 Data 068
DS15.11	DS24.11	-32768..32767	Word addr 41574	Attribute 6 Data 069
DS15.12	DS24.12	-32768..32767	Word addr 41575	Attribute 6 Data 070
DS15.13	DS24.13	-32768..32767	Word addr 41576	Attribute 6 Data 071

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Node 24 (212 if SW1.1 =On), Data from AC800 to Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter input
DS1.11	DS10.11	-32768..32767	Word addr 40553	Attribute 6 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 40554	Attribute 6 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 40555	Attribute 6 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 40556	Attribute 6 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 40557	Attribute 6 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 40558	Attribute 6 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 40559	Attribute 6 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 40560	Attribute 6 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 40561	Attribute 6 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 40562	Attribute 6 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 40563	Attribute 6 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 40564	Attribute 6 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 40565	Attribute 6 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 40566	Attribute 6 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 40567	Attribute 6 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 40568	Attribute 6 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 40569	Attribute 6 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 40570	Attribute 6 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 40571	Attribute 6 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 40572	Attribute 6 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 40573	Attribute 6 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 40574	Attribute 6 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 40575	Attribute 6 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 40576	Attribute 6 Data 095

Node 24 (212 if SW1.1 =On), Data to AC800 from Ethernet IP

AC800 Data	AC800 Data	Value	Modbus TCP address	Ethernet IP
First DS=1	First DS =10			Parameter output
DS1.11	DS10.11	-32768..32767	Word addr 41577	Attribute 6 Data 072
DS1.12	DS10.12	-32768..32767	Word addr 41578	Attribute 6 Data 073
DS1.13	DS10.13	-32768..32767	Word addr 41579	Attribute 6 Data 074
DS3.11	DS12.11	-32768..32767	Word addr 41580	Attribute 6 Data 075
DS3.12	DS12.12	-32768..32767	Word addr 41581	Attribute 6 Data 076
DS3.13	DS12.13	-32768..32767	Word addr 41582	Attribute 6 Data 077
DS5.11	DS14.11	-32768..32767	Word addr 41583	Attribute 6 Data 078
DS5.12	DS14.12	-32768..32767	Word addr 41584	Attribute 6 Data 079
DS5.13	DS14.13	-32768..32767	Word addr 41585	Attribute 6 Data 080
DS7.11	DS16.11	-32768..32767	Word addr 41586	Attribute 6 Data 081
DS7.12	DS16.12	-32768..32767	Word addr 41587	Attribute 6 Data 082
DS7.13	DS16.13	-32768..32767	Word addr 41588	Attribute 6 Data 083
DS9.11	DS18.11	-32768..32767	Word addr 41589	Attribute 6 Data 084
DS9.12	DS18.12	-32768..32767	Word addr 41590	Attribute 6 Data 085
DS9.13	DS18.13	-32768..32767	Word addr 41591	Attribute 6 Data 086
DS11.11	DS20.11	-32768..32767	Word addr 41592	Attribute 6 Data 087
DS11.12	DS20.12	-32768..32767	Word addr 41593	Attribute 6 Data 088
DS11.13	DS20.13	-32768..32767	Word addr 41594	Attribute 6 Data 089
DS13.11	DS22.11	-32768..32767	Word addr 41595	Attribute 6 Data 090
DS13.12	DS22.12	-32768..32767	Word addr 41596	Attribute 6 Data 091
DS13.13	DS22.13	-32768..32767	Word addr 41597	Attribute 6 Data 092
DS15.11	DS24.11	-32768..32767	Word addr 41598	Attribute 6 Data 093
DS15.12	DS24.12	-32768..32767	Word addr 41599	Attribute 6 Data 094
DS15.13	DS24.13	-32768..32767	Word addr 41600	Attribute 6 Data 095

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3. ControlLogix Communication

3.1 General

The communication to and from ControlLogix PLC's is accomplished using UCMM messages. On the PLC side this is programmed with MSG instructions. As mentioned earlier the communication is implemented using 6 different memory areas (attributes 1-6) for data and one area (attribute 7) for AC800M node status. The AC800M node numbers used are assumed to be using the first 24 nodes on either DriveBus (CI858) or Module Bus. Other node numbers can be selected using dip switches S1.1 through S1.3 on PE1364C.

The attached examples are made using RSLogix5000.

3.2 Memory usage

The AC800M arranges the communicated signals in maximum 24 nodes (drives) with each having 24 16-bit integers in either direction. This gives a maximum of $24 * 24 = 576$ 16-bit integers that can be transmitted and received in either direction.

In the PE1364C and in the ControlLogix PLC the signals are handled as 6 blocks or data (memory areas/attributes). Each memory area is read or written from/to the PE1364C using an MSG instruction and reads 192 bytes (96 Integers) into an array. Each memory area corresponds to 4 nodes on the AC800M side.

3.3 ControlLogix Programming

A part of a program example that reads and writes all 6 memory areas is shown below. The program also reads area 7 that contains 2 dint words that holds the status of each AC800 node as a bit. Since the AC800M side of the PE1364C uses a maximum of 24 nodes all data is present in the first word and the second word will always be 0.

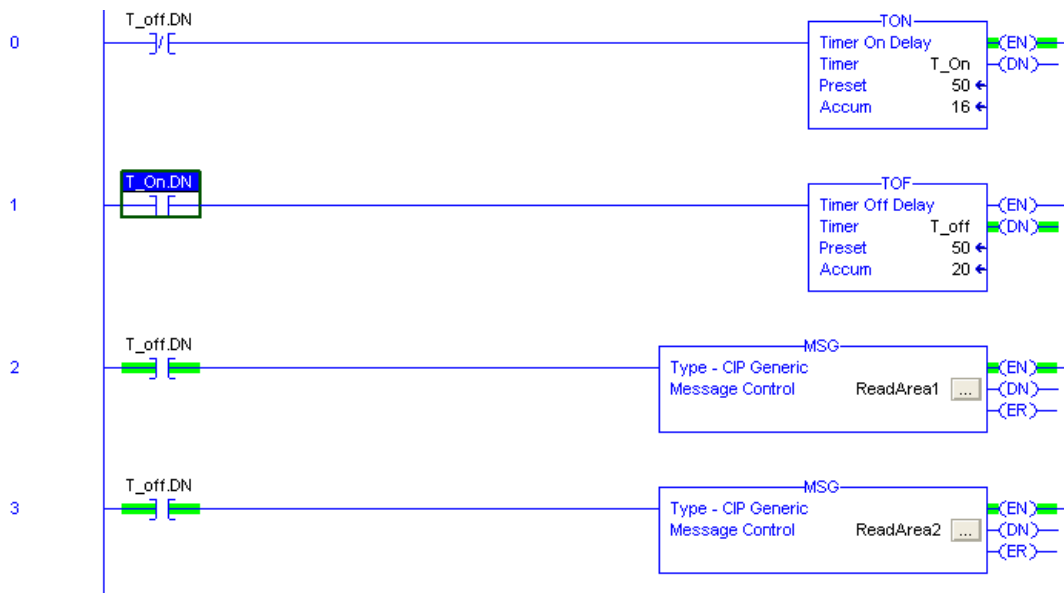


Fig. 1 Start of ControlLogix program to read memory areas (attributes) 1 and 2. The TON/TOFF function blocks generate a pulse signal that activates the reading of the data every 100 ms.

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3.3.1 MSG (Message) Instruction

The message instruction is configured according to the example below. In the example the instruction is configured to read memory area 2 (attribute 2) from the PE1364C unit. Attribute 2 maps to AC800M nodes 5 through 8 if using DDCS on CI858 or nodes 105 through 108 if the optical module bus is used.

3.3.1.1 Reading data from PE1364C

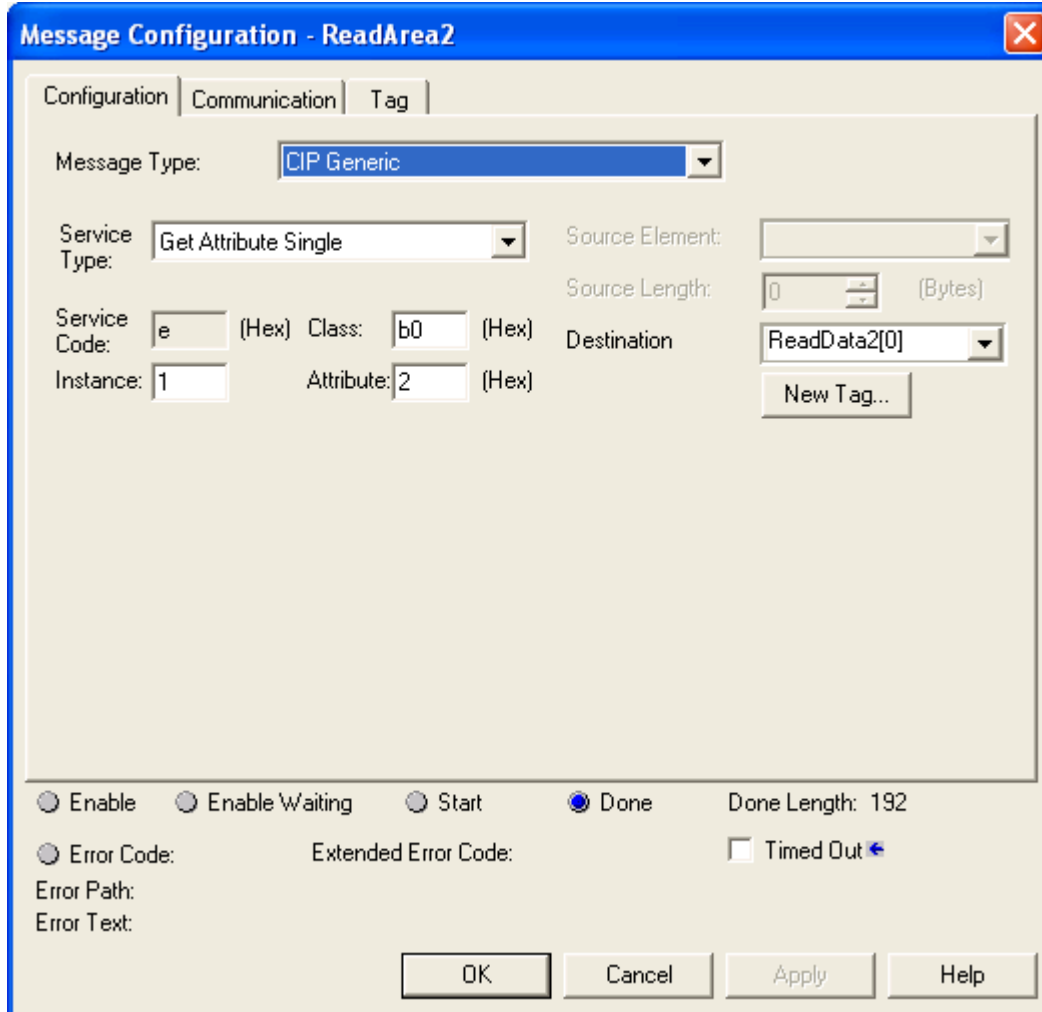


Fig. 2 Configuration to read memory area 2. The message type is always "CIP Generic", service type is "Get Attribute Single". The class and Instance are always b0 and 1 to read data. The attribute number defines which memory are to be read. In this case memory area 2. The destination defines which tag the data should be read into. The tag should be an integer array of at least 96 words. The [0] after the tag name defines where in the array to start the data. In this case the data will be loaded starting a position 0 but it is possible to start at any position.

From the above example we can also see the status of the read request. When the program is executing Enable, Start, Done and Done Length will change status. Done Length is the number bytes read in the request. In this case 192 bytes is equal to 96 integers or 4 nodes time 24 integers on the AC800M side.

The message instruction must also have the communication path defined. This is done on the second tab of the message instruction configuration. In the example below the communication path has been defined as ABB_Comms, 2, 192.168.0.20. ABB_Comms is the name given to the Ethernet/IP communication interface. The 2 instructs to system to go outside the card on the Ethernet/IP network and 192.168.0.20 is the IP address of the PE1364C.

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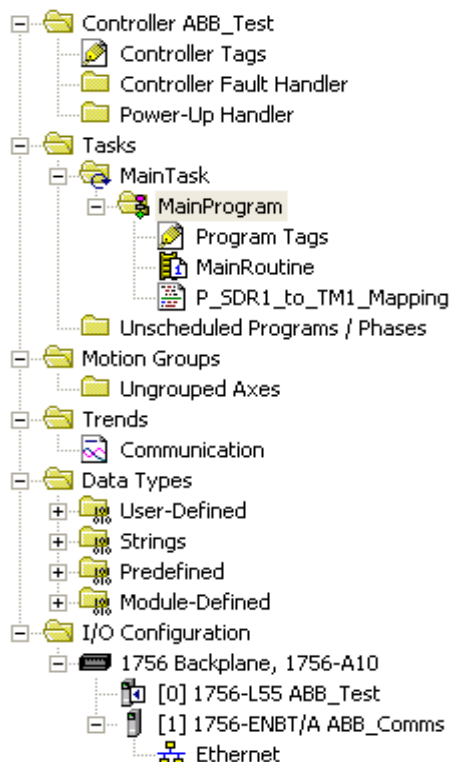


Fig. 3 ControlLogix PLC. Ethernet/IP communication through 1756-ENBT/A ABB_Comms

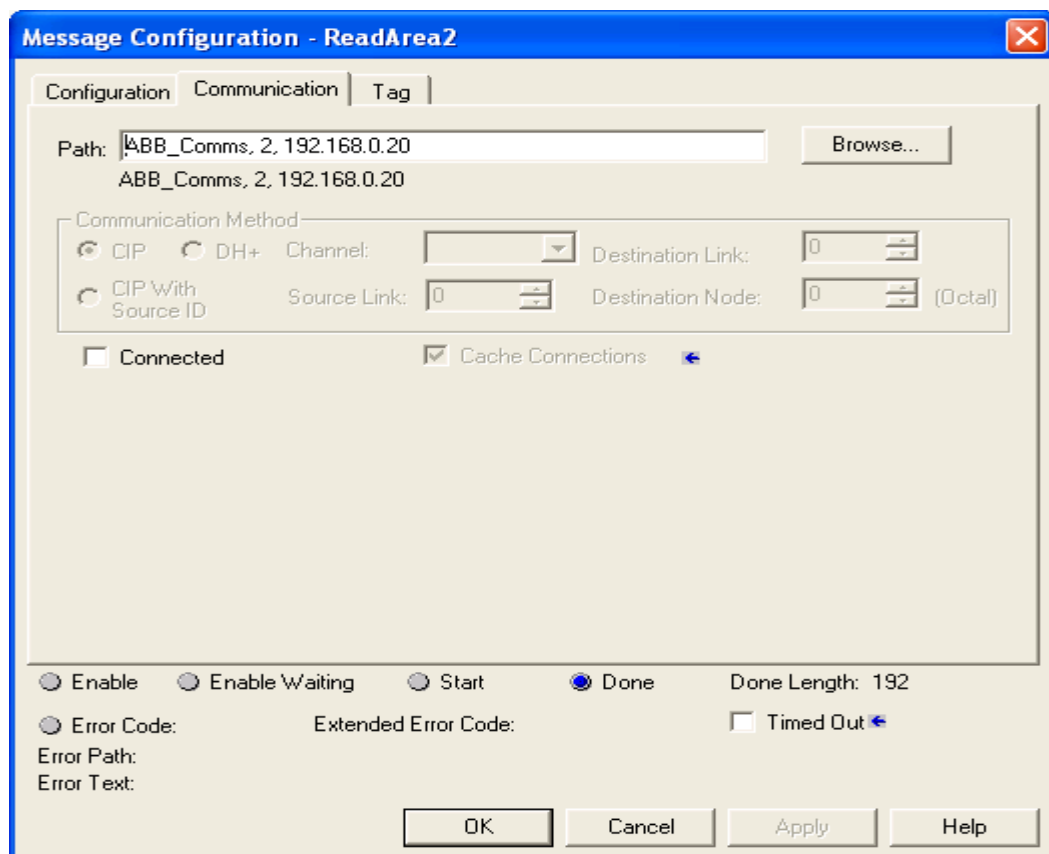


Fig. 4 Communication path definition from the example shown above.

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3.3.1.2 Writing Data to PE1364C

Writing data to PE1364C is done in a similar way as reading data from the unit. The example below is configured to write into memory area (attribute) 2.

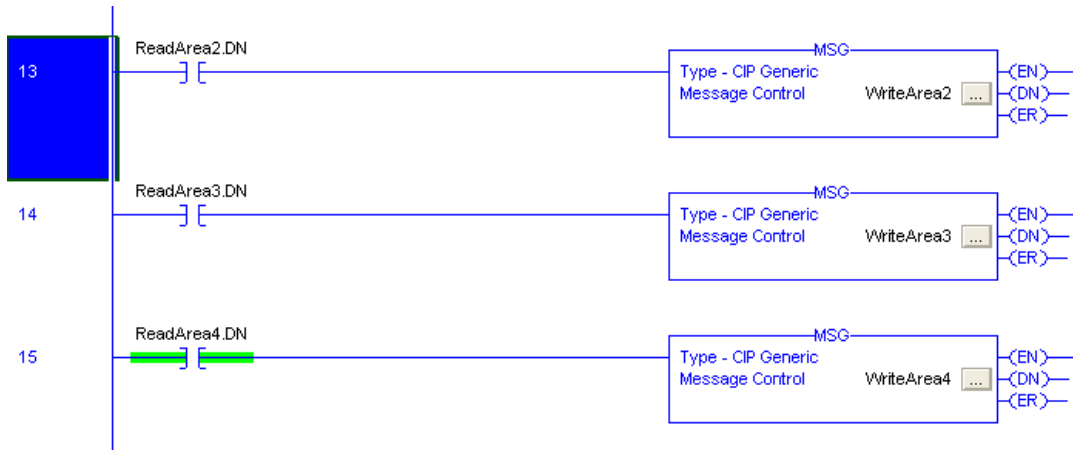


Fig. 5 part of ControlLogix program writing to PE1364C. In the program the execution of the Message instruction has been tied to the done bit of the read instruction of the same memory area for testing purposes. It is however not necessary and the execution of the read and write messages can be controlled independently from each other.

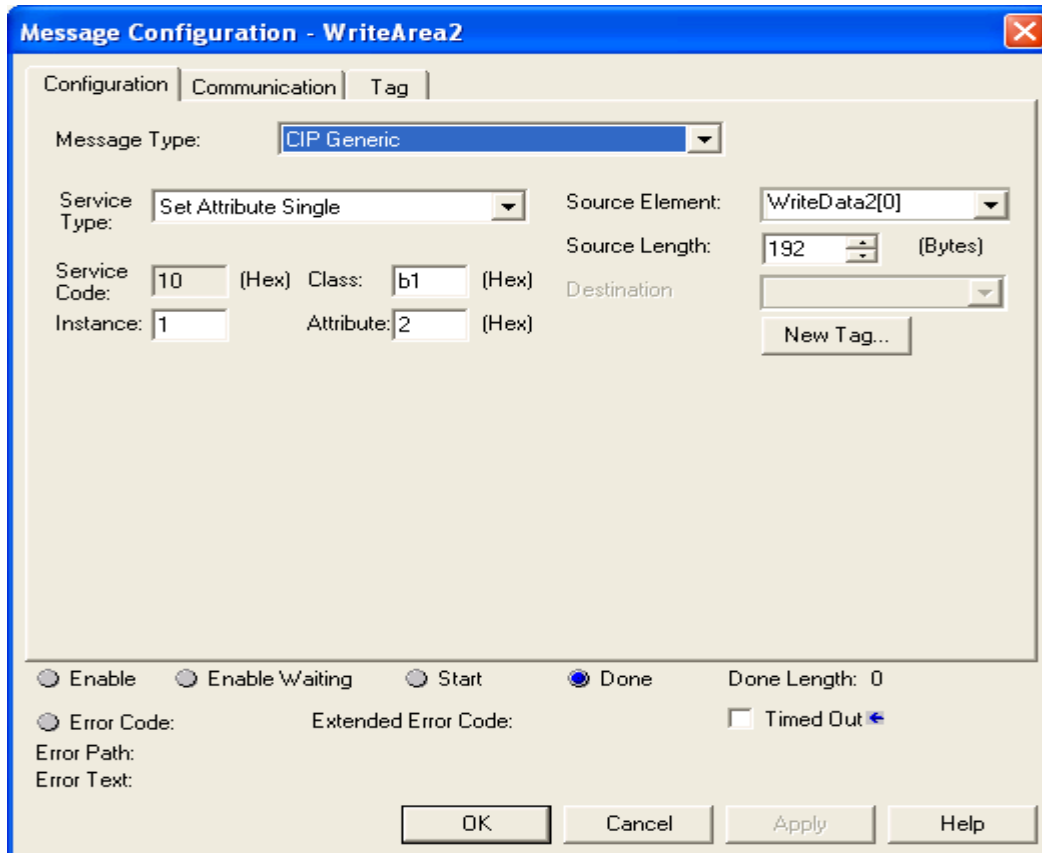


Fig. 5 Configuration to write memory area 2. The message type is always "CIP Generic", service type is "Set Attribute Single". The class and Instance are always b1 and 1 to write data. The attribute number defines which memory that is to be written. In this case memory area 2. The source element defines which tag the data should be written from. The tag should be an integer array of at least 96 words. The [0] after the tag name defines where in the array to start the data. In this case the data will be loaded starting a position 0 but it is possible to start at any position. The source length defines how many bytes should be written. In this case we are writing 192 bytes or 96 integers.

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The communication path is defined in the same manner as when reading data.

3.3.1.3 Reading the AC800M communication node status

The communication between AC800M and PE1364C is based on up to 24 engineered drive nodes. This means that from the AC800M PE1364C acts as 24 different engineered drives. The drives are normally added in groups of 4 matching one complete memory area. The status of each drive node communication can be read and monitored by the ControlLogix PLC. The status is available as a 4 16-bit integer words in memory area 7. Since PE1364C uses a maximum of 24 nodes it means that all 24 bits of the communication supervision fits inside one dint. For this reason it's more convenient to read the 4 16-bit words as 2 dints.

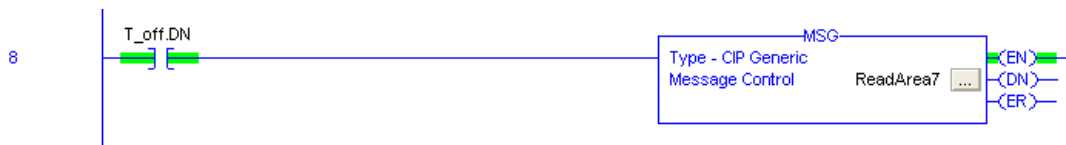


Fig. 6 Reading the AC800M communication node status in ControlLogix.

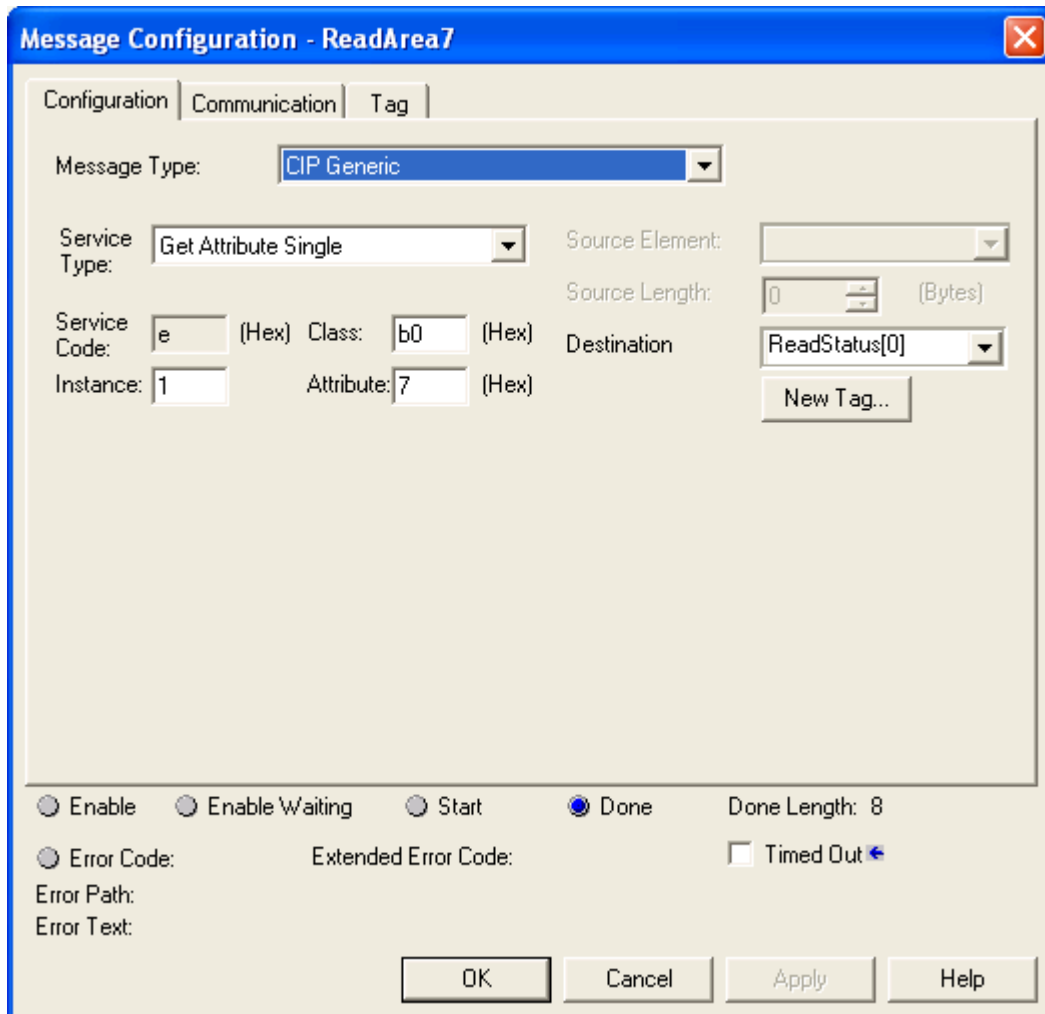


Fig. 7 Configuration to read memory area 7 that contains the AC800M to PE1364C communication status. In this case the Done Length will only be 8 bytes.

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+ ReadData6		INT[96]	Decimal
+ ReadStatus		DINT[2]	Decimal
+ Realln		REAL[48]	Float

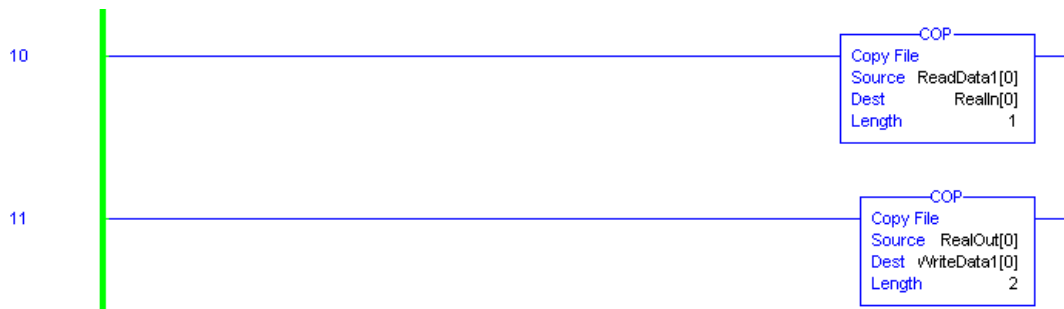
Fig. 8 Definition of the ReadStatus tag for the AC800M node communication status. Note that the tag is defined as a dint array with two positions.

+ ReadData6		{...}	Decimal
- ReadStatus		{...}	Decimal
+ ReadStatus[0]	2#0000_0000_1111_1111_1111_1111_1111_1111		Binary
+ ReadStatus[1]		0	Decimal

Fig. 9 Actual values of the two variables in ReadStatus. Even though the tag is defined as a dint it's possible to view as a 32 bit packed Boolean. The first AC800M node 1(101) is the lowest bit in ReadStatus[0].

3.4 Floating point handling

A floating point number can be written and read as two 16 bit integers. In the ControlLogix PLC this can be accomplished by using the COP or Copy instruction.



from and to floating point and integer values.

Fig. 10 copying

The copy instruction on rung 10 above copies values starting at ReadData1[0] to the Realln[0]. The length of the copied area is defined by the Length parameter. In this case one position Reallin is loaded from ReadData. Since ReadData is a 16-bit integer and a Realln is a 32 bit floating point variable. Two consecutive values from ReadData1 are copied. The bit sequence has to be according to IEEE-754 floating point format with ReadData[0] holding the lower word and ReadData[1] holding the higher word.

The copy instruction on rung 11 works in the opposite direction by copying 1 floating point number from RealOut[0] to two 16-bit words in WriteData1[0]. The resulting 2 words are according to IEEE-754 floating point format with the low word in WriteData1[0] and the high word in WriteData1[1]. In this case the length which corresponds to the number of positions in the destination is 2 16-bit words.

3.5 Performance

The communication has been tested with all memory areas written and read continuously. When all areas are written and read without any delays between the message blocks the 1756-ENBT/A communication board appears to limit the communication updates. This appears as longer than expected update time for the message requests.

If the message instructions are spaced in the program due the normal flow this does not appear to be a problem. In the test program the same results have been achieved by controlling the write request from the done request of the same memory area. With this solution update times of 100 ms can be sustained when sending and receiving the complete 576 16-bit integers.

With the number of variables reduced to one memory area (96 16-bit variables) consistent update times better than 50ms can be achieved.