

P2P Function [FC2]

P2P Function			
Name	Data type	Default value	Comment
Input			
Output			
InOut			
Temp			
Constant			
▼ Return			
P2P Function	Void		

The screenshot shows a PLC ladder logic diagram for a function block named **Receive_P2P**. The block is associated with data block **%DB1** and is titled **"Receive_P2P_DB"**. The block has the following inputs and outputs:

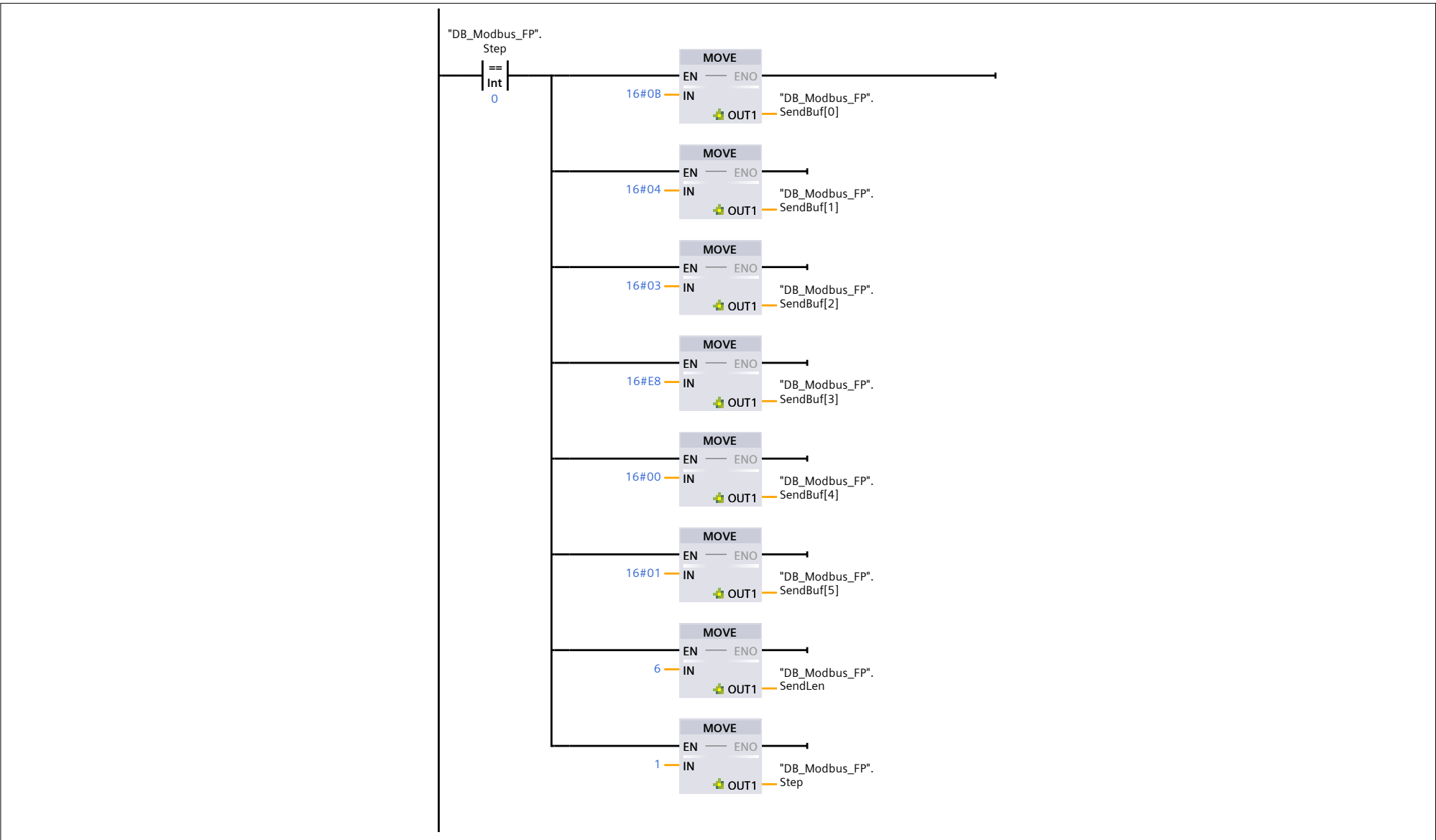
- EN** (Enable): Connected to a normally open contact labeled **266** and **"Local-CM_PTP_RS422_485_BA_1"**.
- PORT**: Connected to **"DB_Modbus_FP".RecvBuf"**.
- BUFFER**: Connected to **"DB_Modbus_FP".RecvBuf"**.
- ENO** (Enable Out): Connected to a coil labeled **UNIVERSAL**, which is then connected to a coil labeled **false**.
- NDR** (Not Done): Connected to a coil labeled **"DB_Modbus_FP".RecvNDR"**.
- LENGTH**: Connected to a coil labeled **"DB_Modbus_FP".RecvLen"**.
- ERROR**: Connected to a coil labeled **"DB_Modbus_FP".Error"**.
- STATUS**: Connected to a coil labeled **W#16#7000**.

The diagram shows a single rungs of a ladder logic network. The first terminal is connected to a common rail (represented by a vertical line on the left). The second terminal is connected to the EN (Enable) input of the Send_P2P function block. The third terminal is connected to the ENO (Enable Out) output of the Send_P2P function block. The fourth terminal is connected to the REQ (Request) input of the Send_P2P function block. The fifth terminal is connected to the DONE (Done) output of the Send_P2P function block. The sixth terminal is connected to the ERROR (Error) output of the Send_P2P function block. The seventh terminal is connected to the STATUS (Status) output of the Send_P2P function block. The eighth terminal is connected to the PORT (Port) input of the Send_P2P function block. The ninth terminal is connected to the BUFFER (Buffer) input of the Send_P2P function block. The tenth terminal is connected to the LENGTH (Length) input of the Send_P2P function block. The Send_P2P function block is labeled with the address %DB3 and the name "Send_P2P_DB".

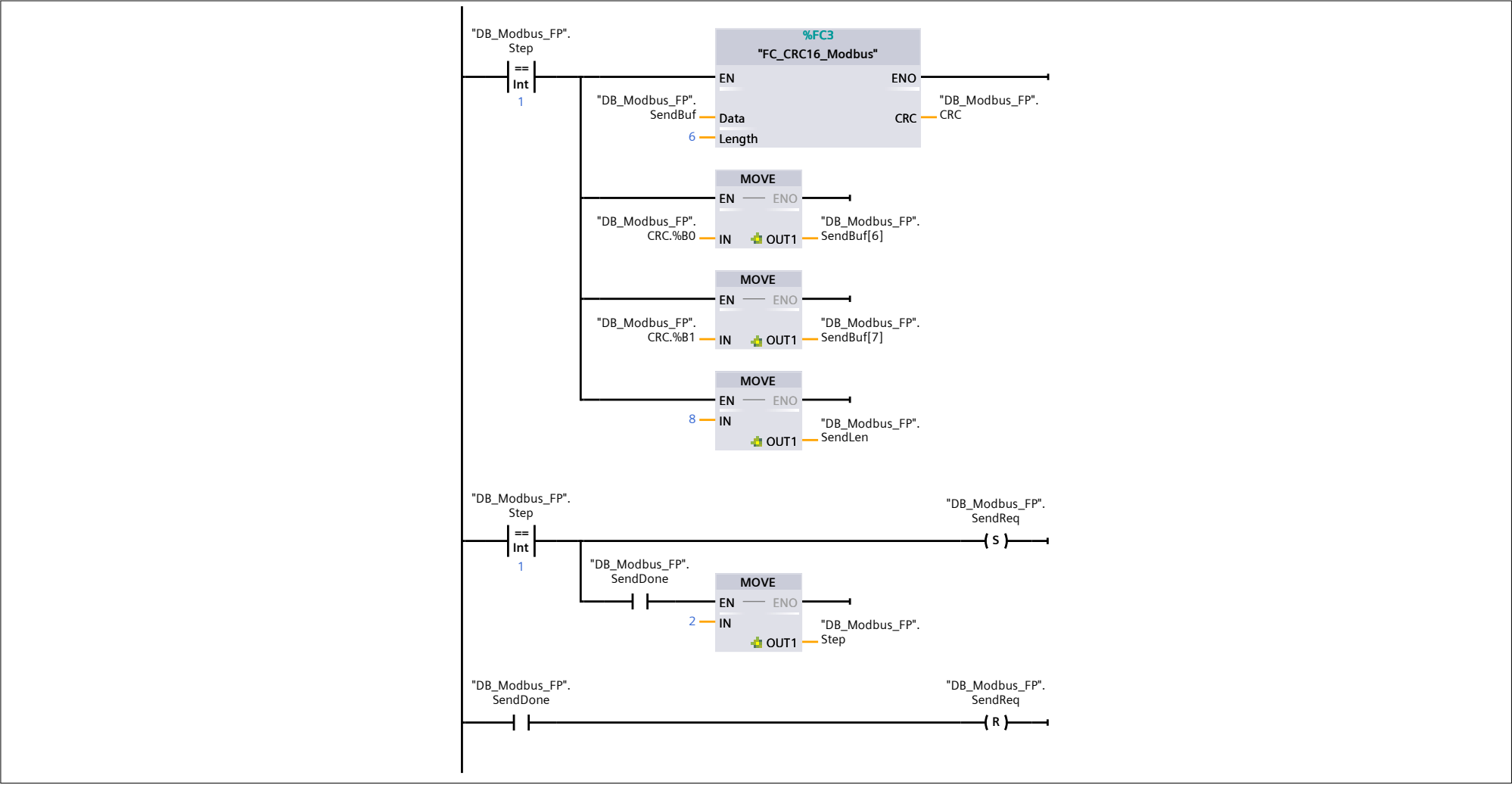
```

graph LR
    Rail --- EN[EN]
    Rail --- ENO[ENO]
    Rail --- REQ[REQ]
    Rail --- DONE[DONE]
    Rail --- ERROR[ERROR]
    Rail --- STATUS[STATUS]
    Rail --- PORT[PORT]
    Rail --- BUFFER[BUFFER]
    Rail --- LENGTH[LENGTH]
    subgraph Send_P2P_DB [Send_P2P]
        EN
        ENO
        REQ
        DONE
        ERROR
        STATUS
        PORT
        BUFFER
        LENGTH
    end
    ENO --> false
    DONE --> SendDone
    ERROR --> Error
    STATUS --> W#16#7000

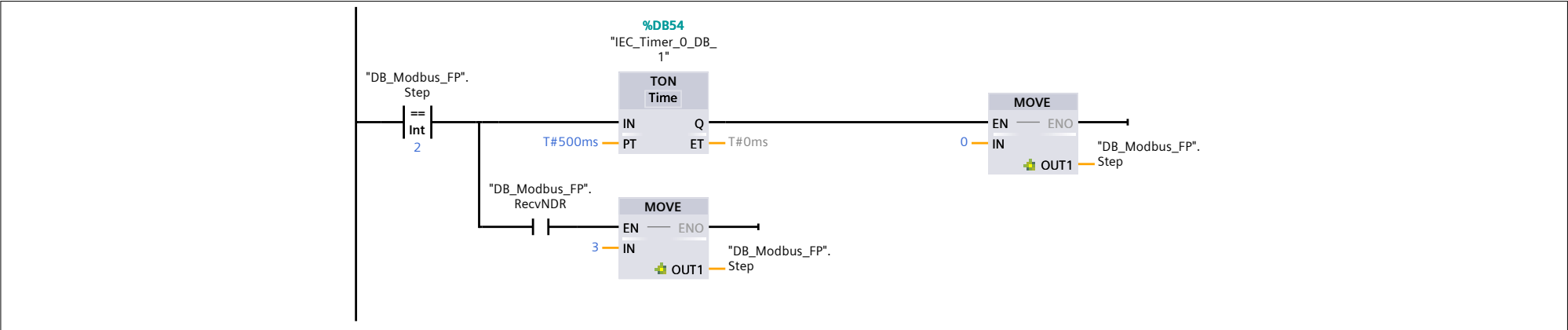
```



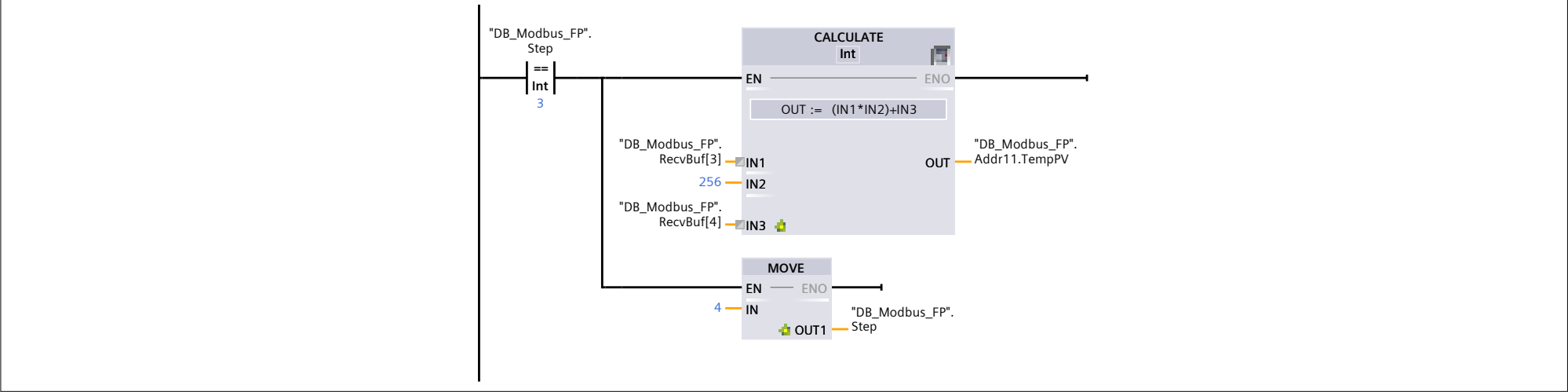
Network 4: Address 11 Network 2 Step=1



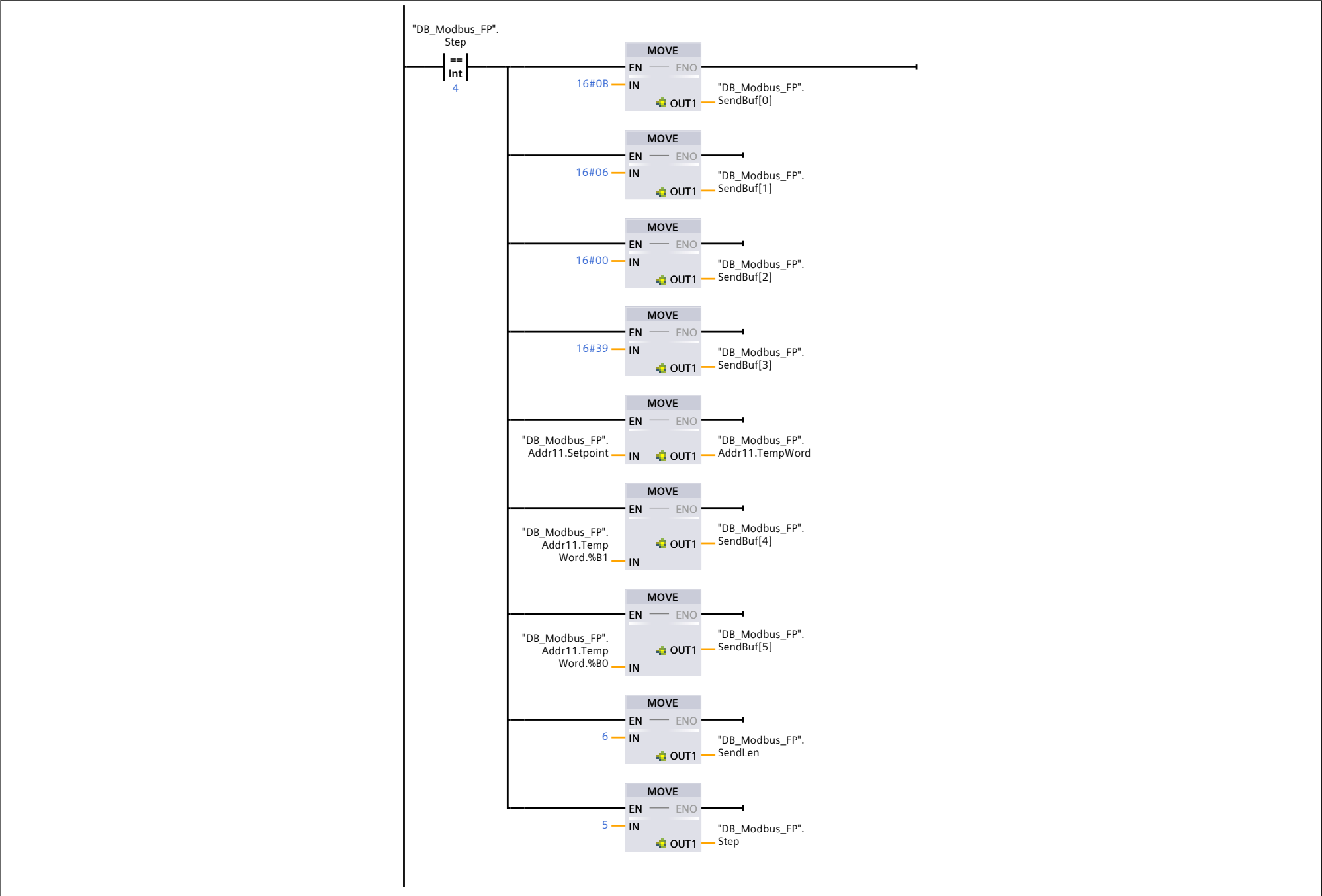
Network 5: Address 11 Network 3 Step=2



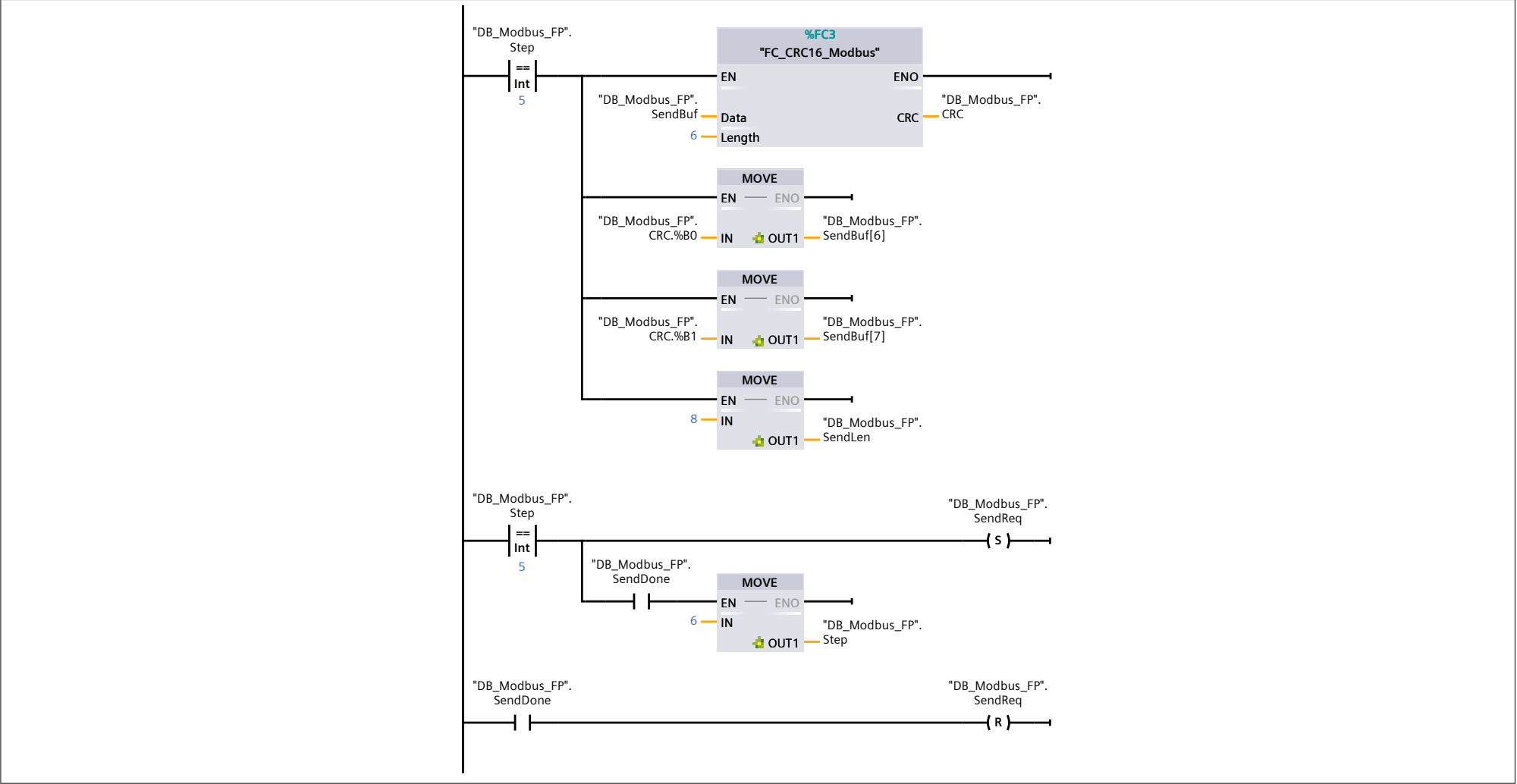
Network 6: Address 11 Network 4 Step=3



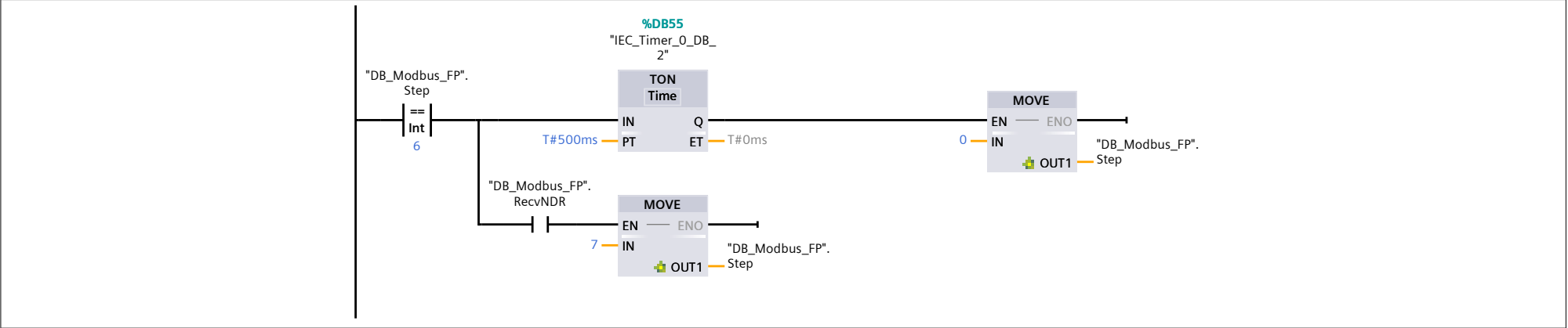
Network 7: Address 11 Network 5 Step=4



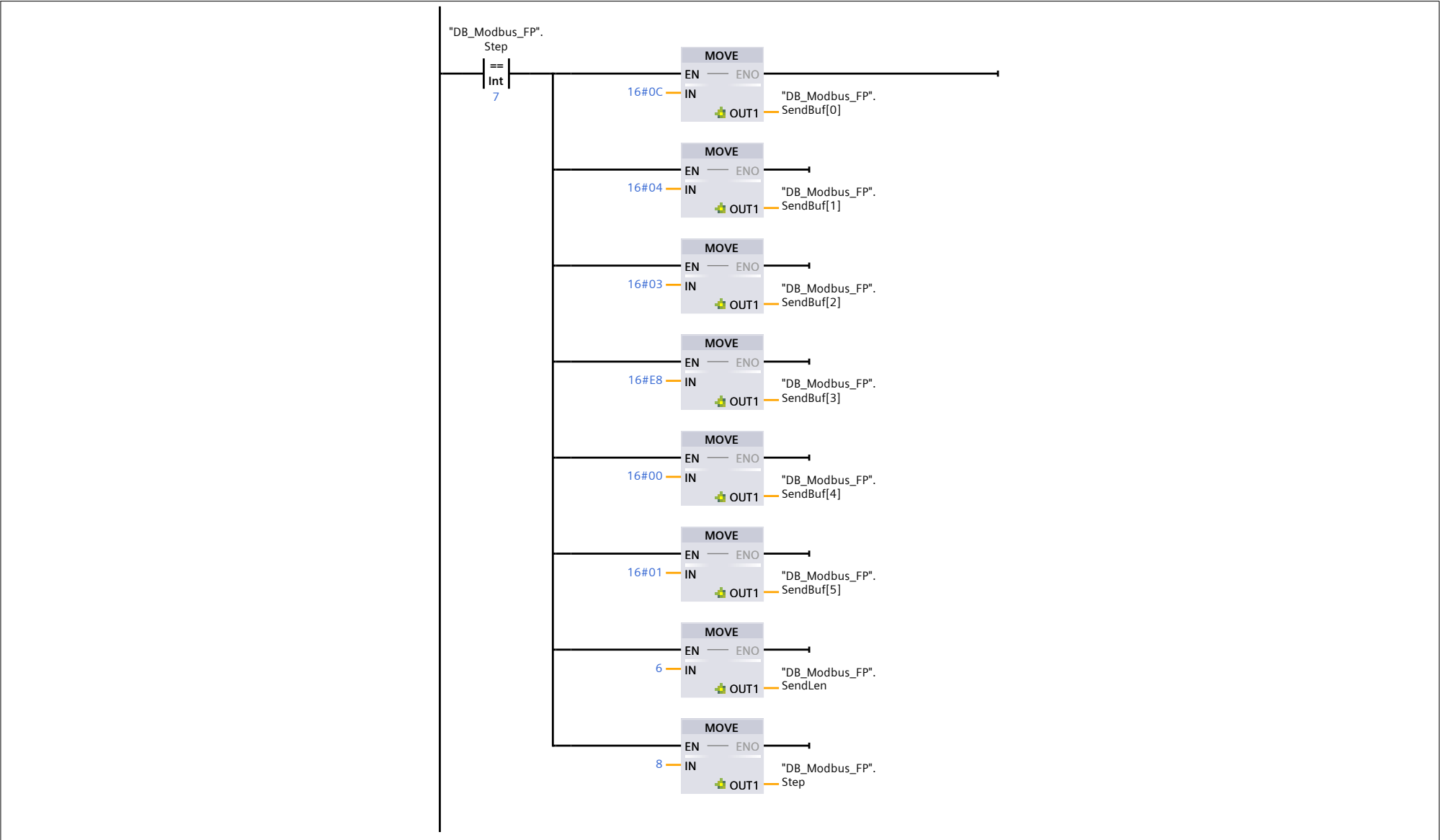
Network 8: Address 11 Network 6 Step=5



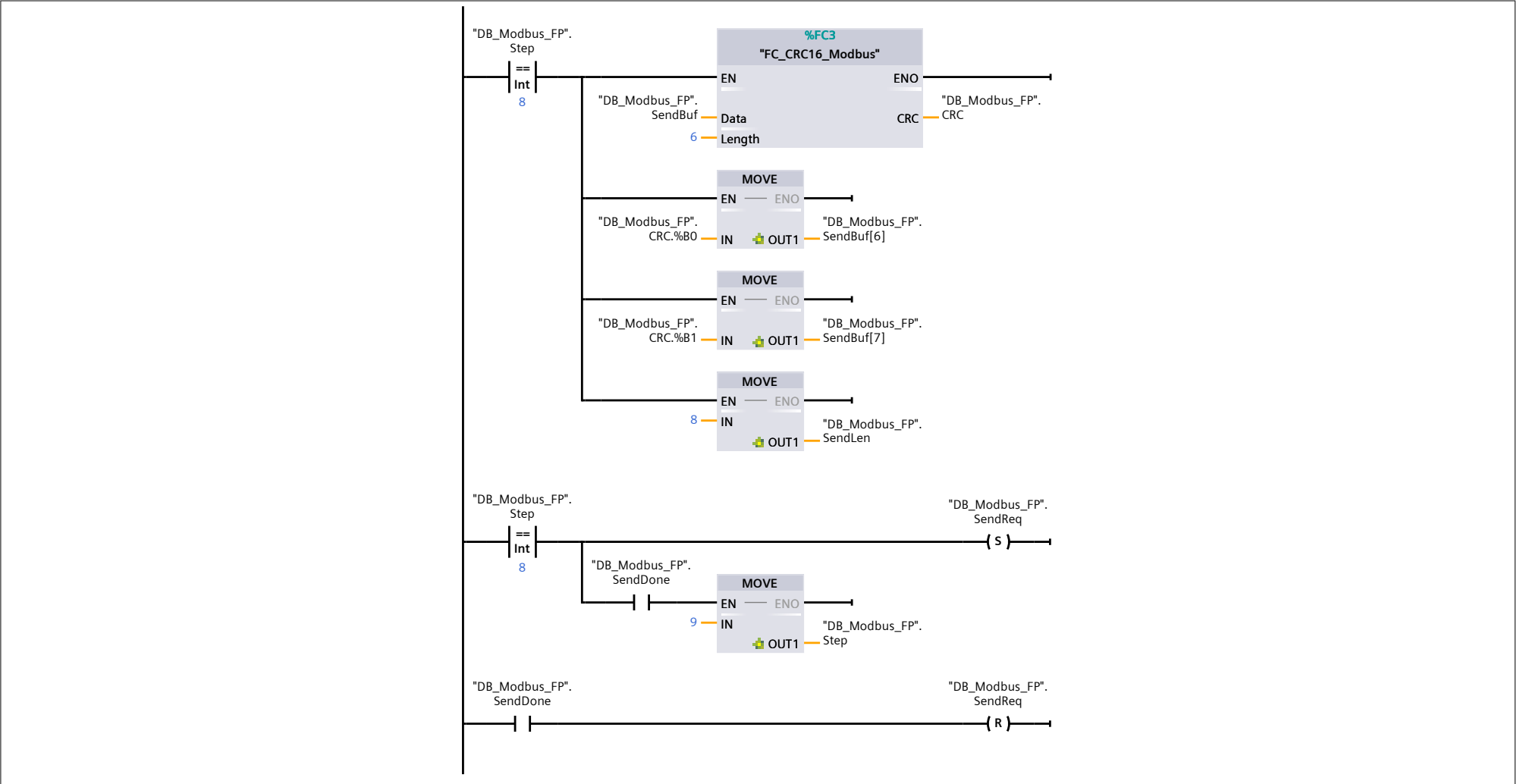
Network 9: Address 11 Network 7 Step=6



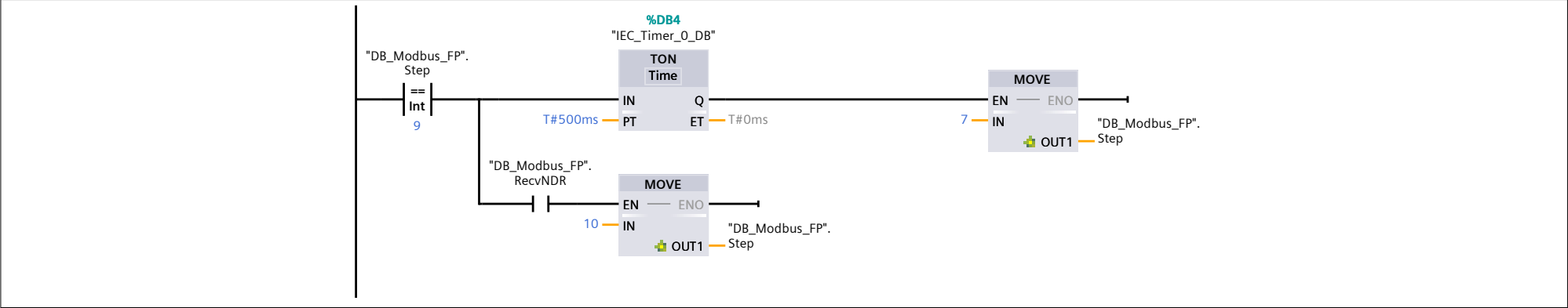
Network 10: Address 12 Network 1 Step=7



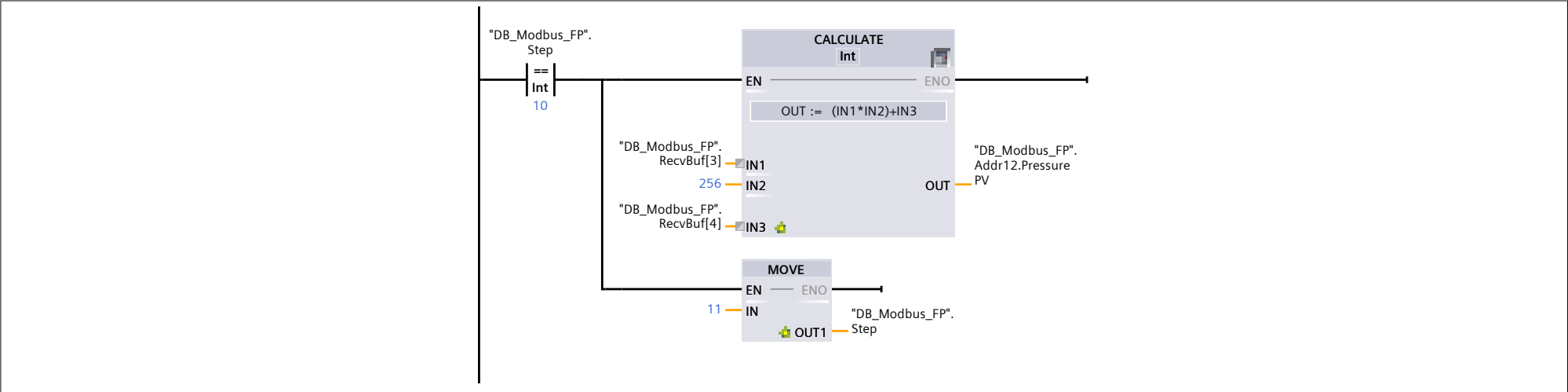
Network 11: Address 12 Network 2 Step=8



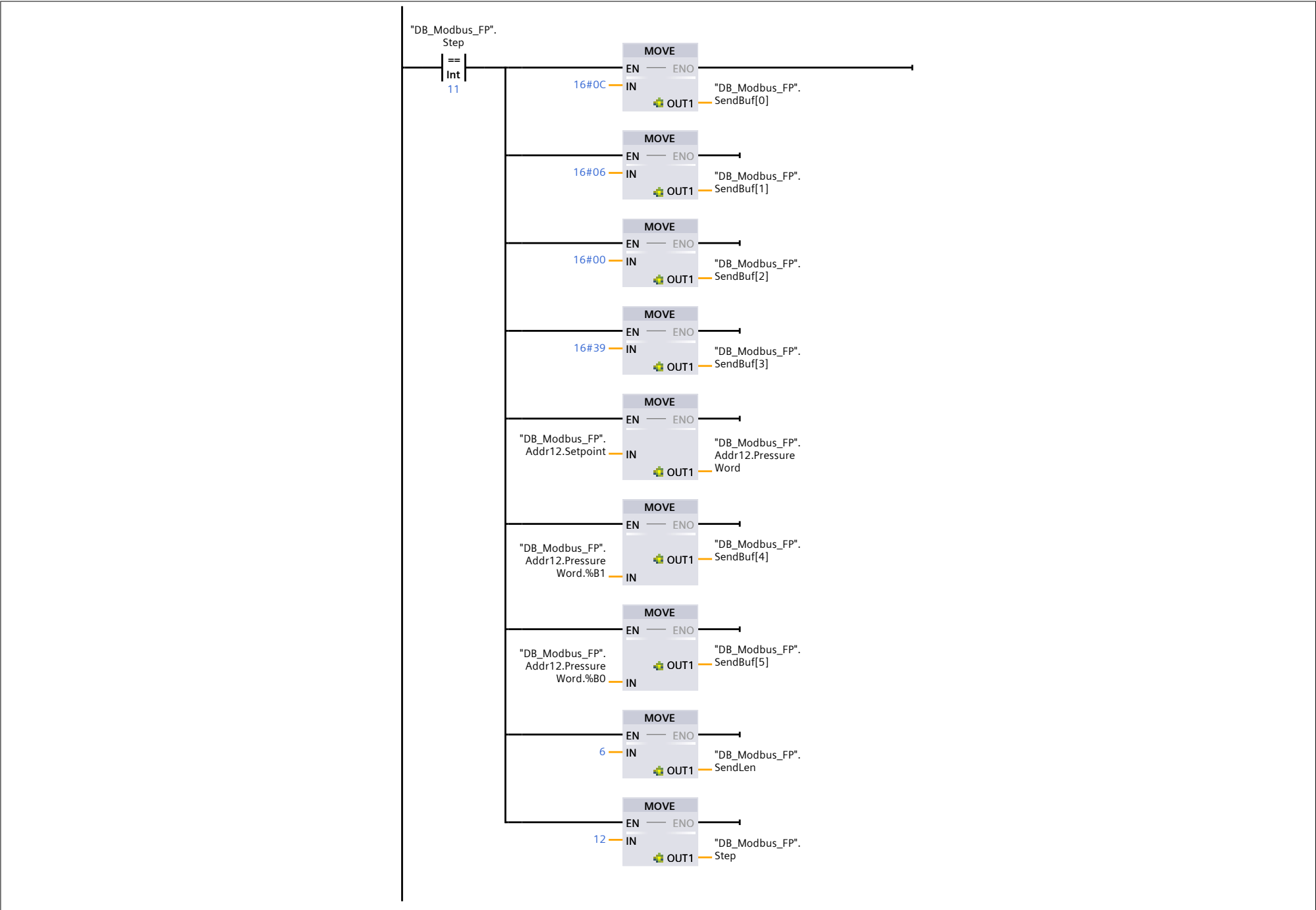
Network 12: Address 12 Network 3 Step=9



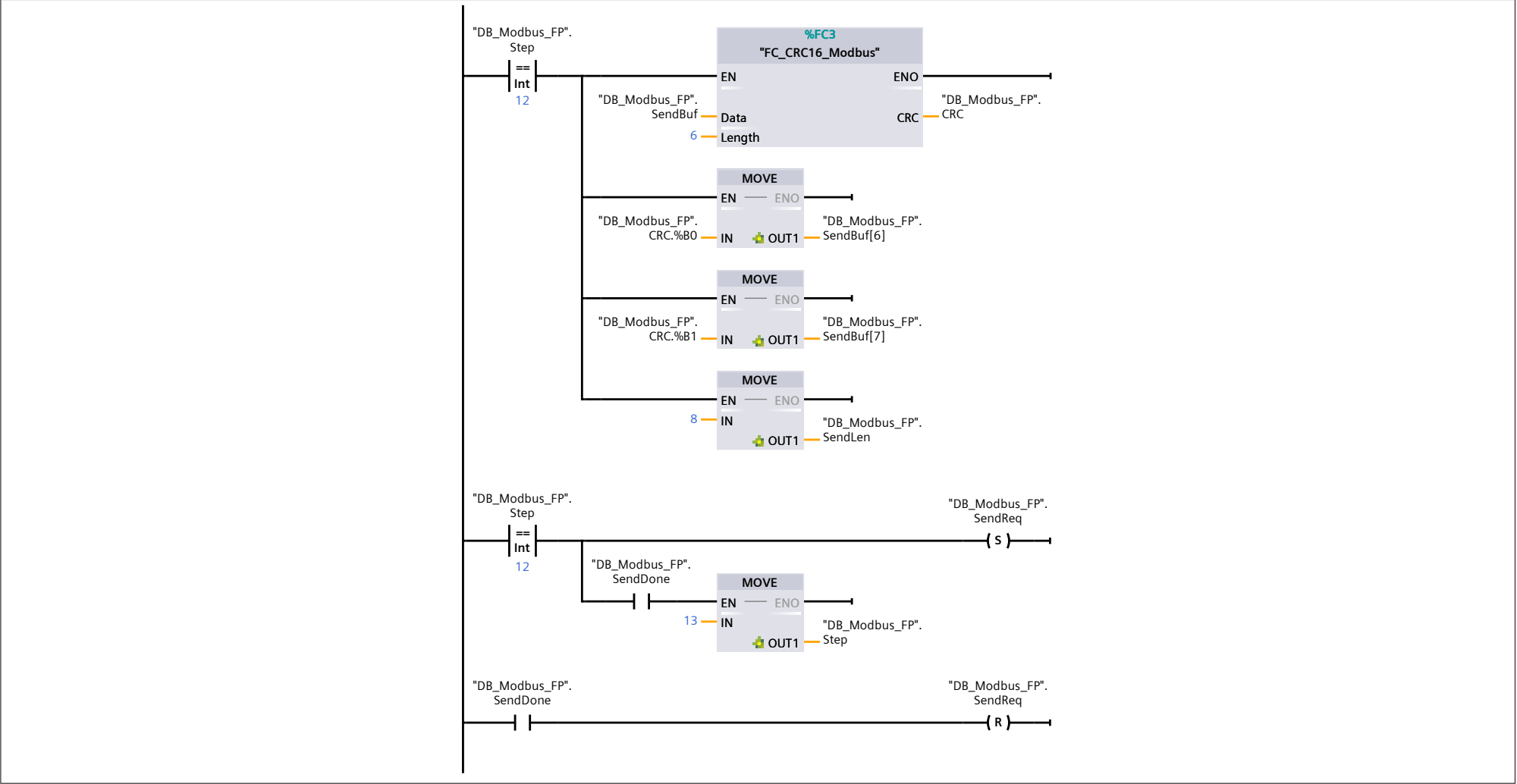
Network 13: Address 12 Network 4 Step=10



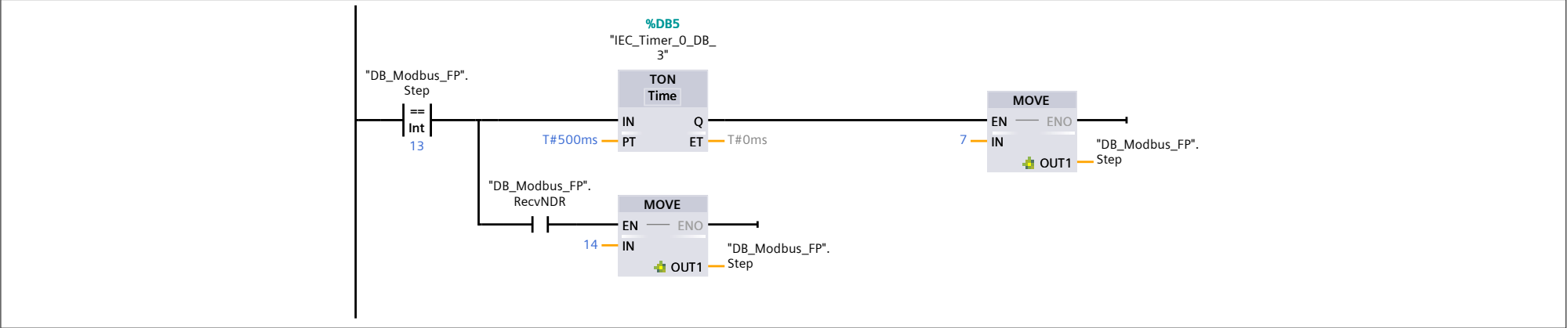
Network 14: Address 12 Network 5 Step=11



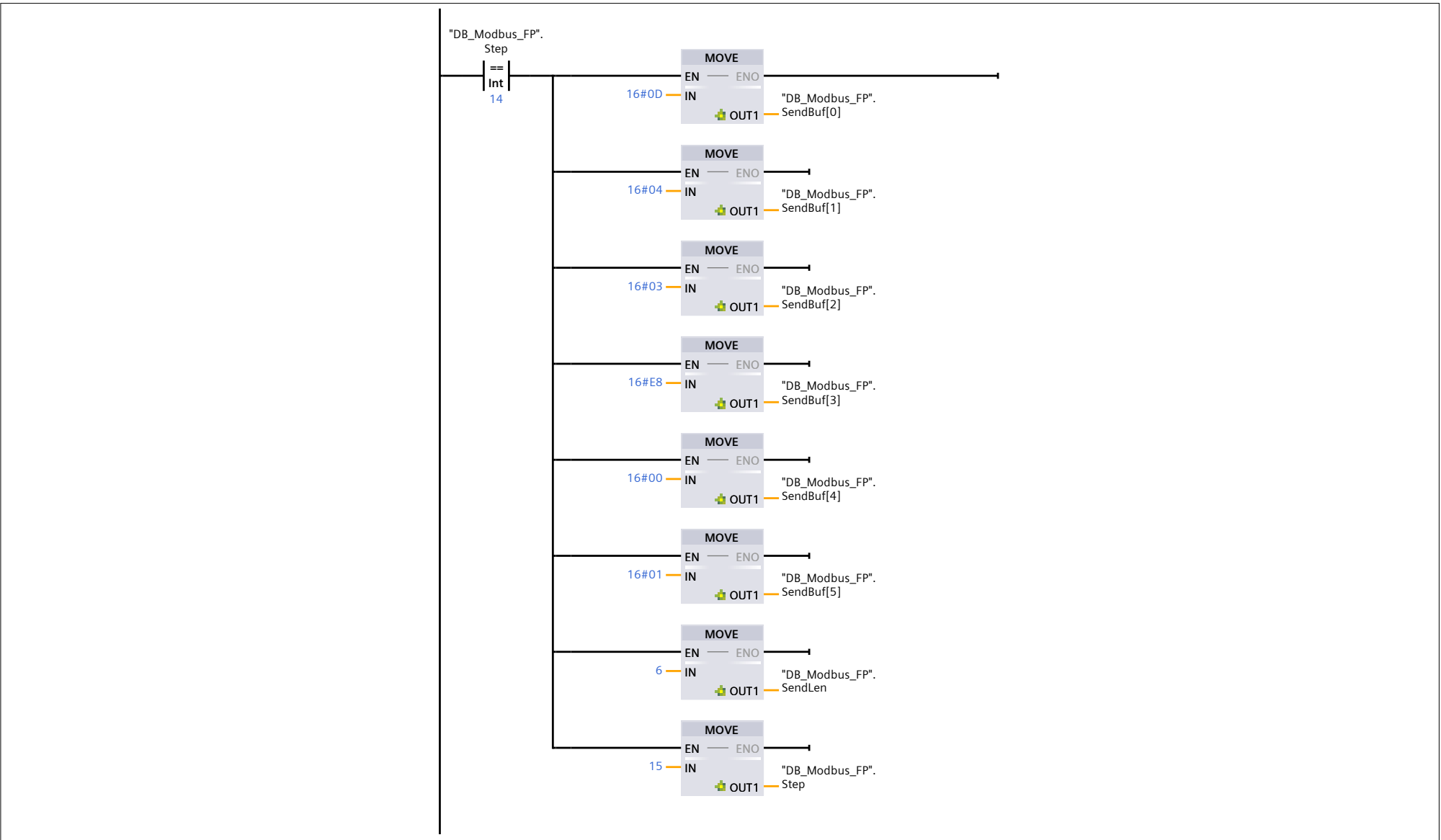
Network 15: Address 12 Network 6 Step=12



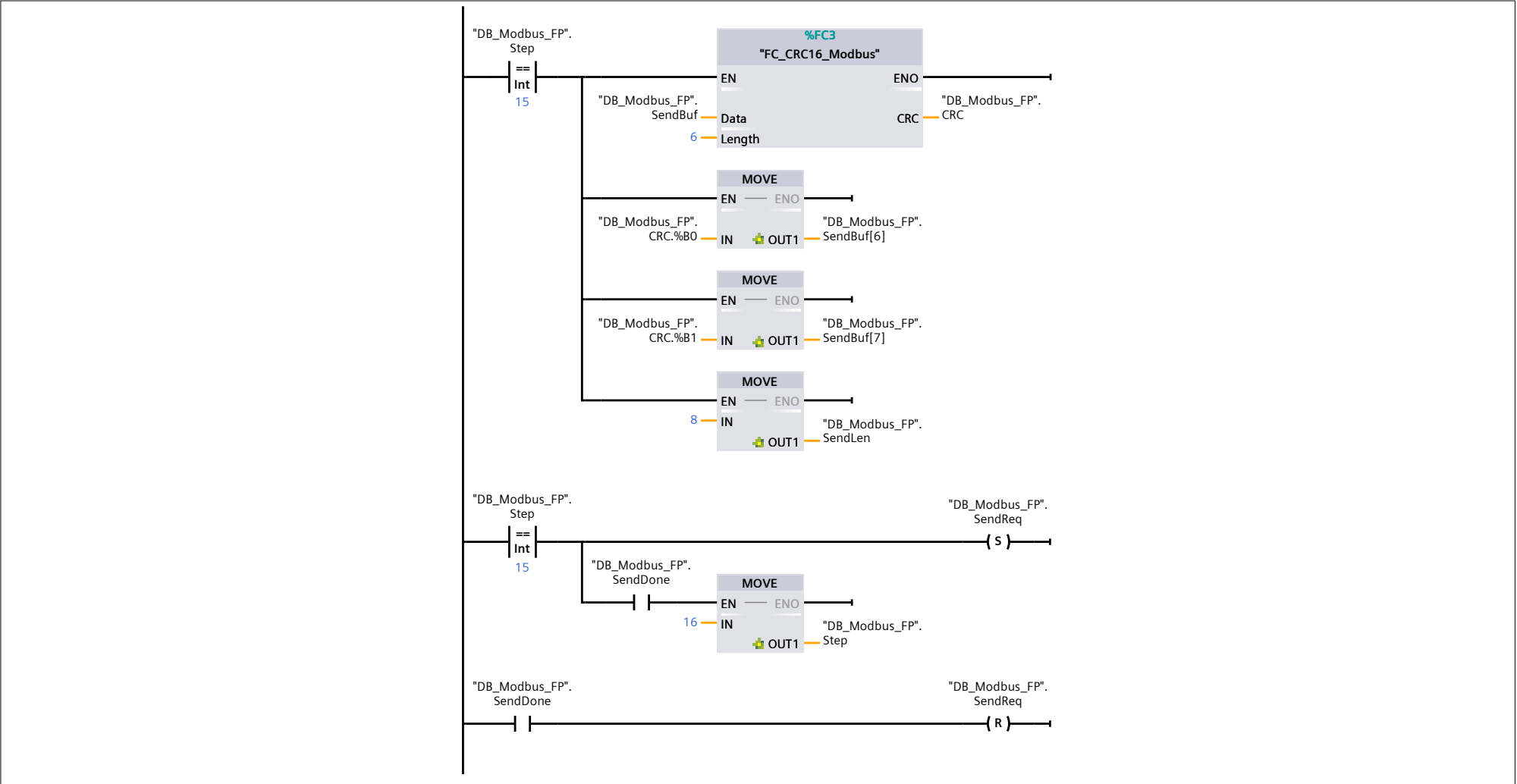
Network 16: Address 12 Network 7 Step=13



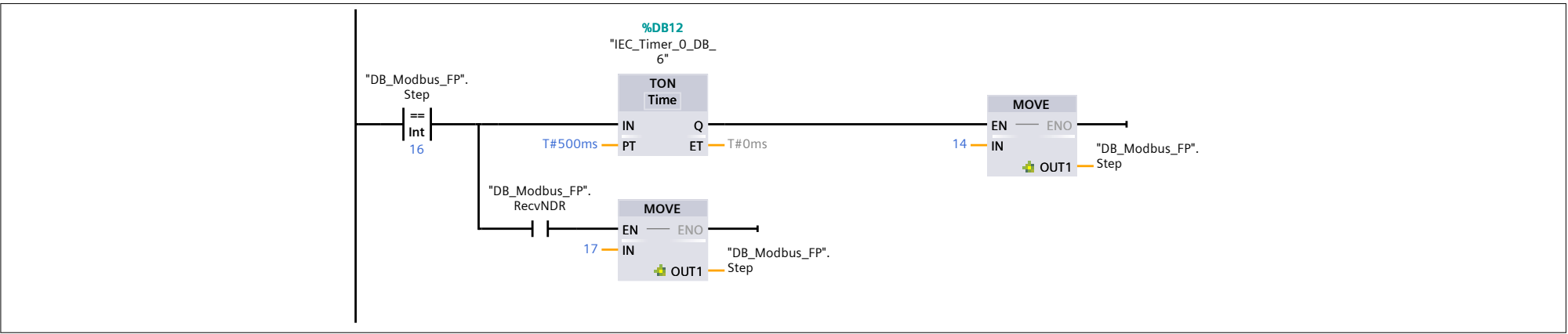
Network 17: Address 13 Network 1 Step=14



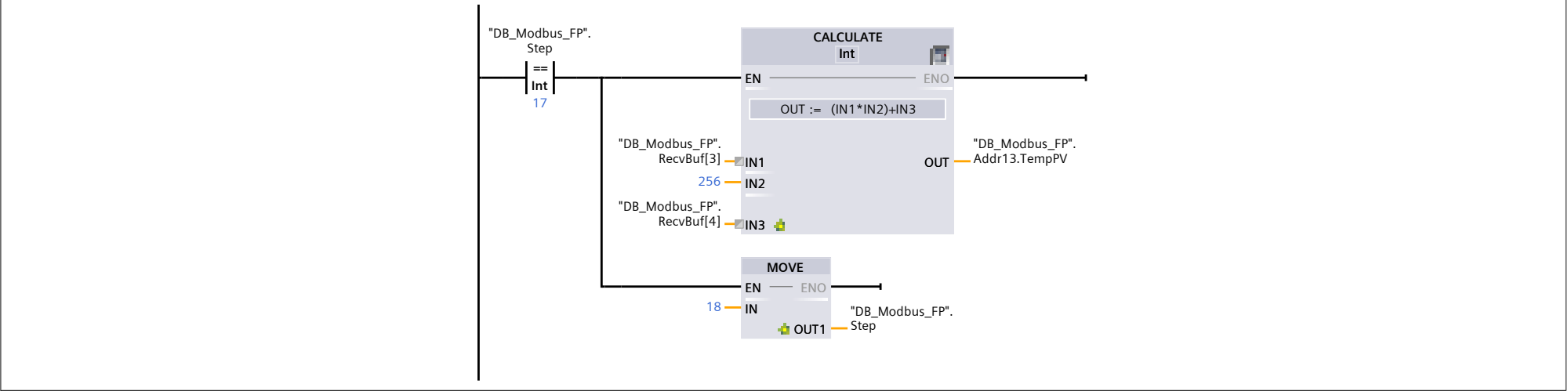
Network 18: Address 13 Network 2 Step=15



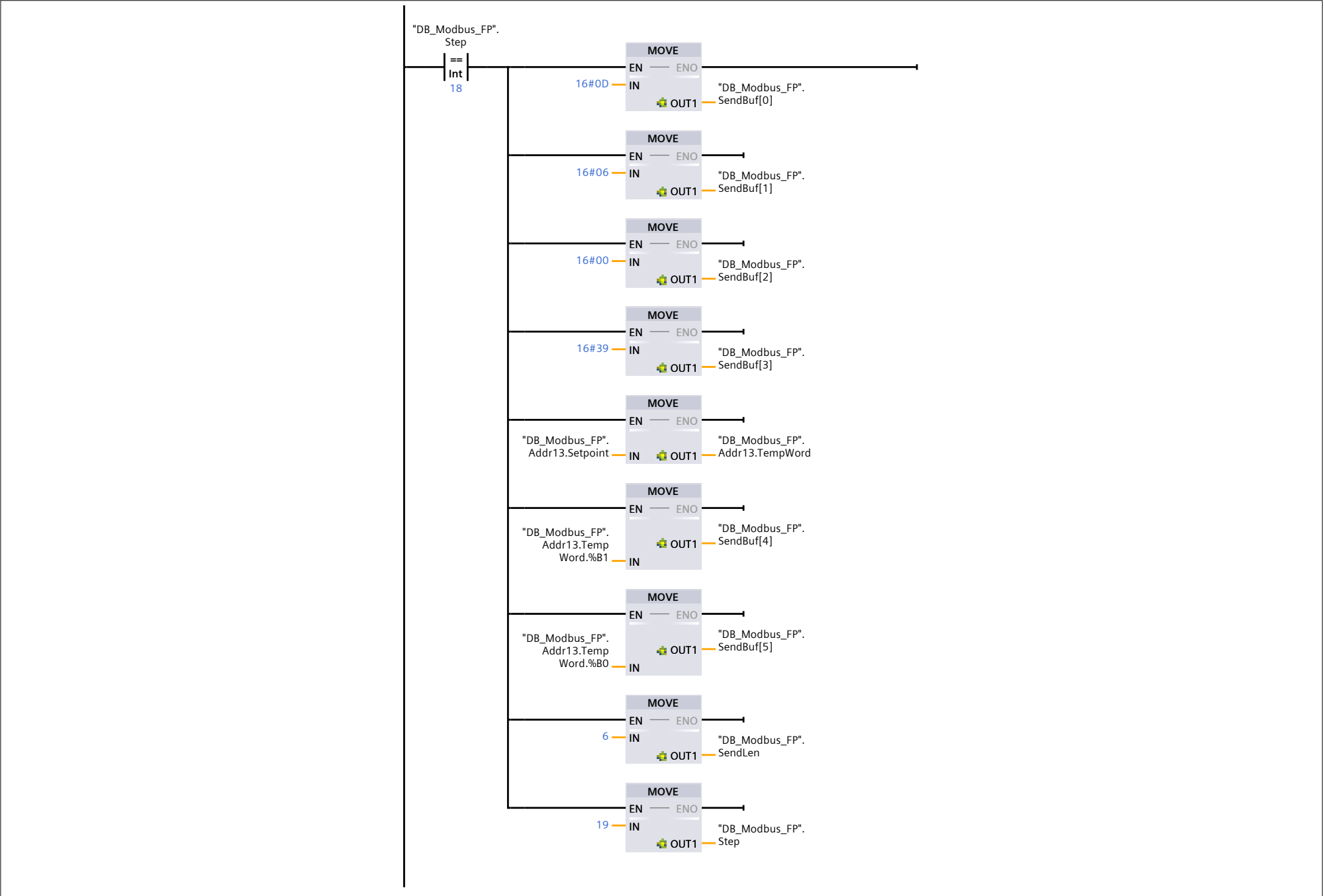
Network 19: Address 13 Network 3 Step=16



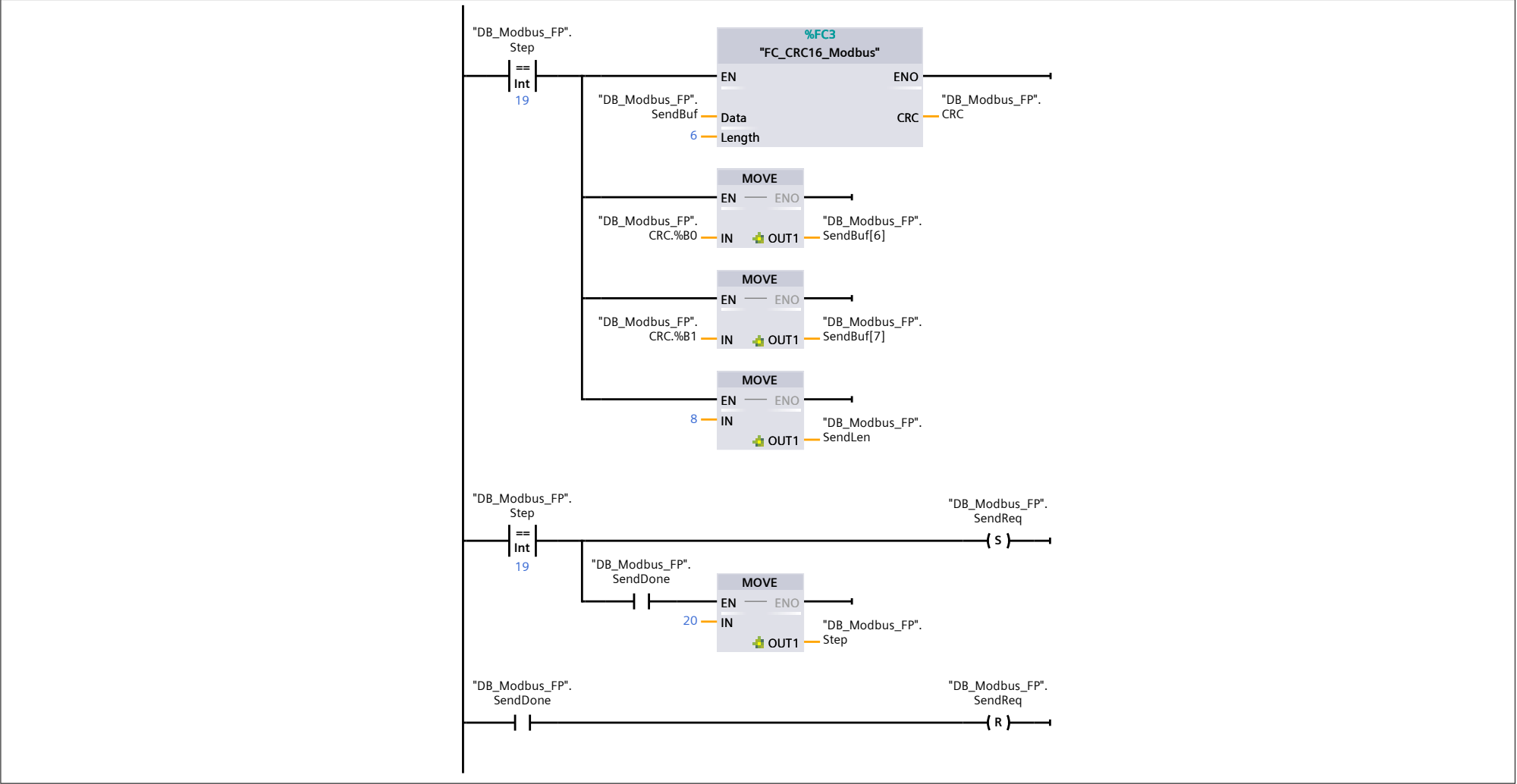
Network 20: Address 13 Network 4 Step=17



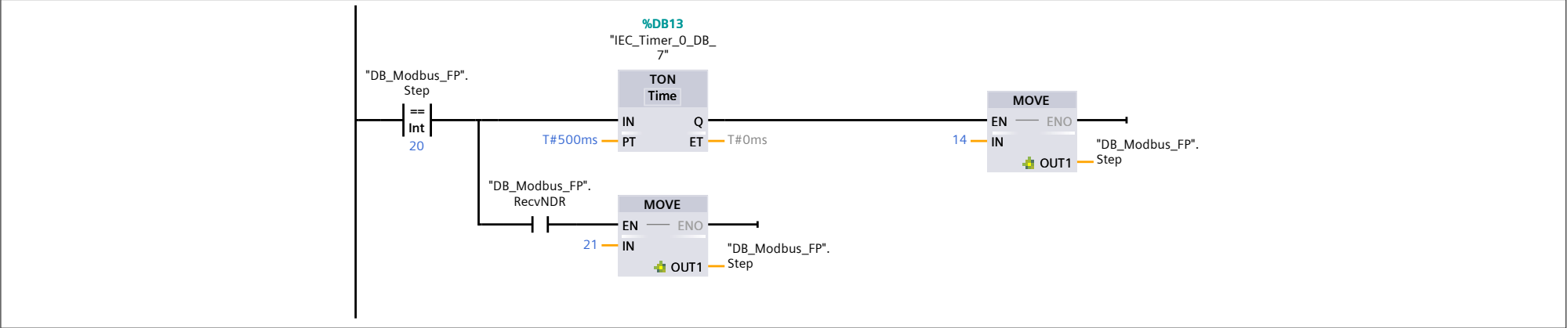
Network 21: Address 13 Network 5 Step=18



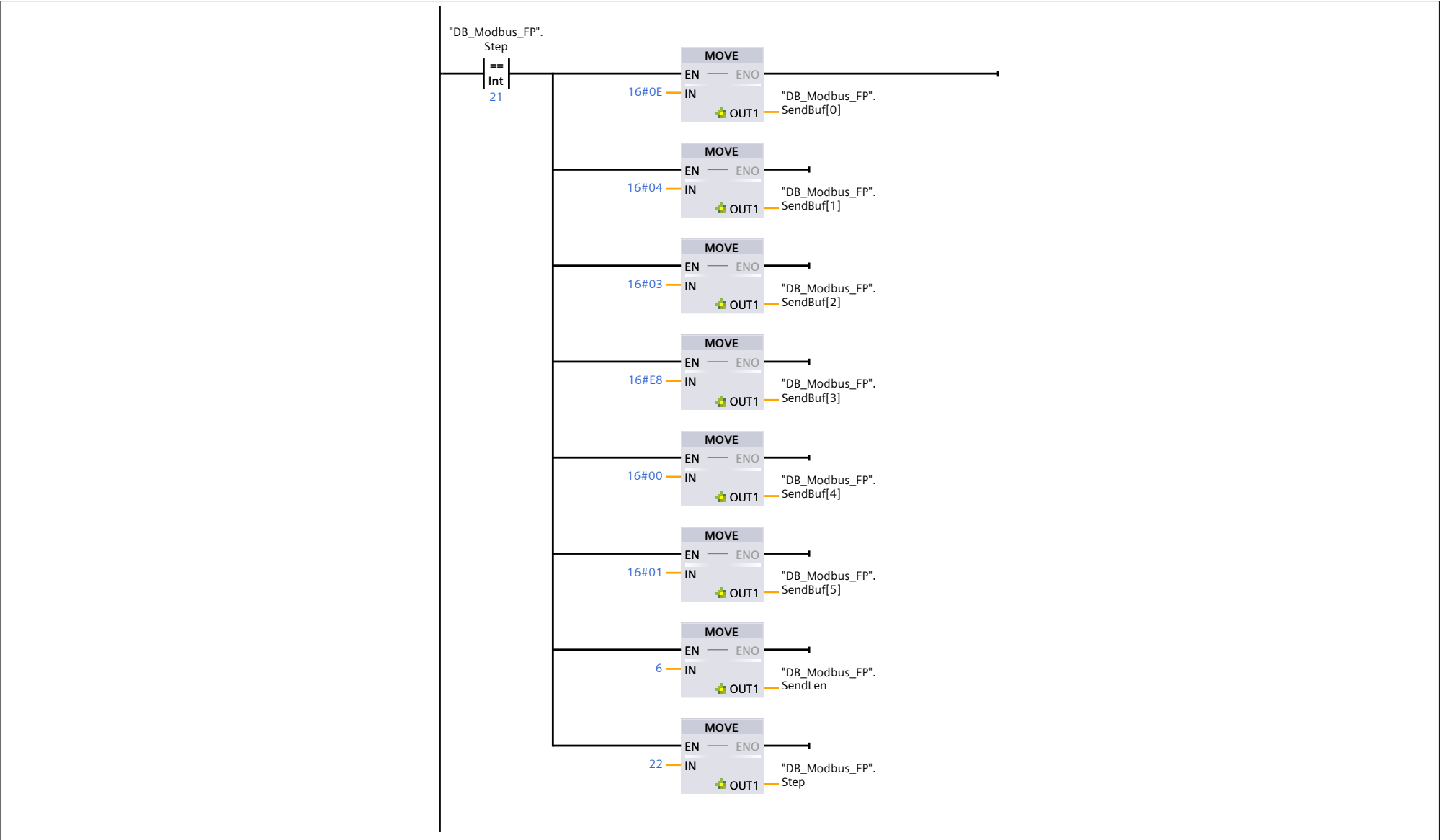
Network 22: Address 13 Network 6 Step=19



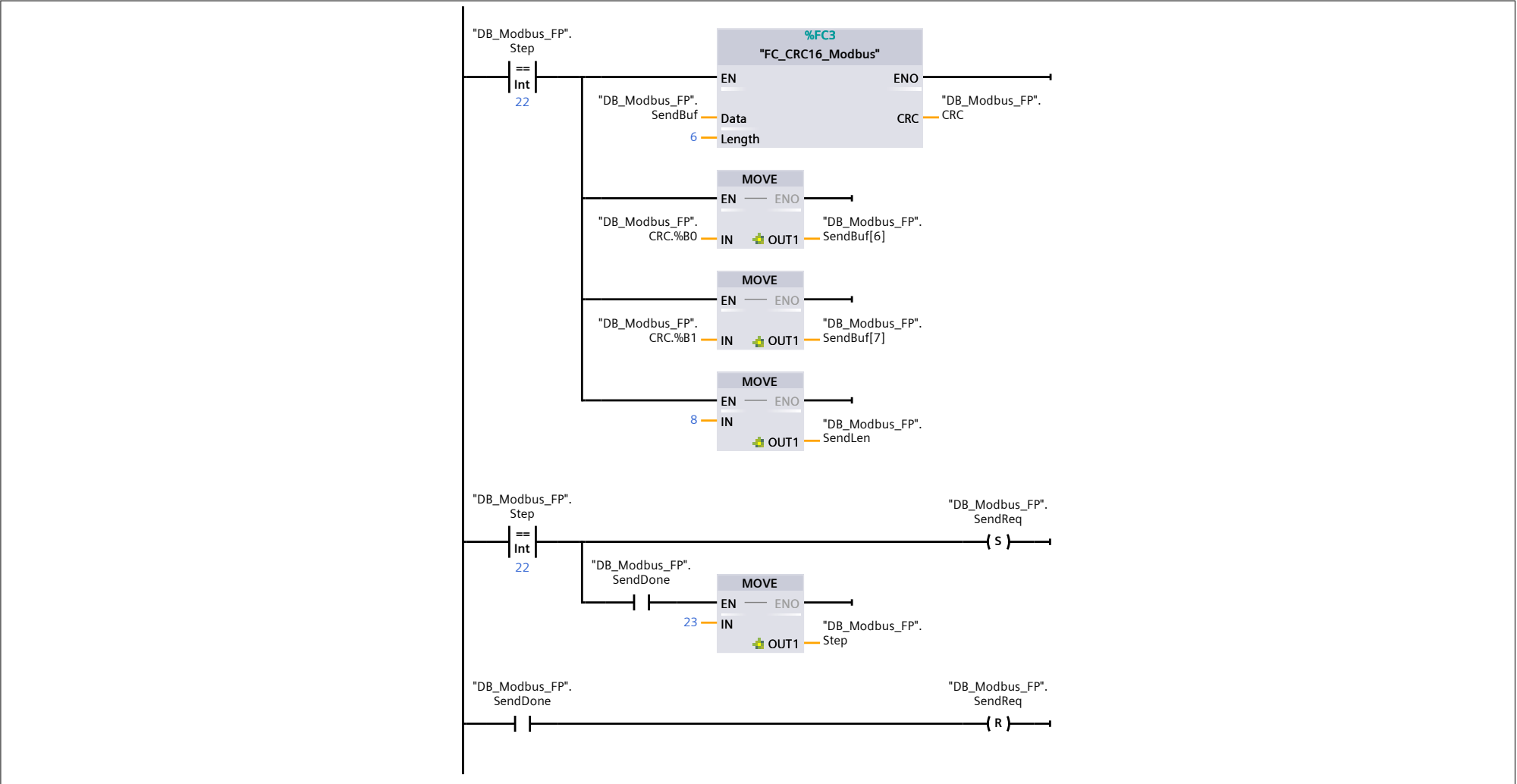
Network 23: Address 13 Network 7 Step=20



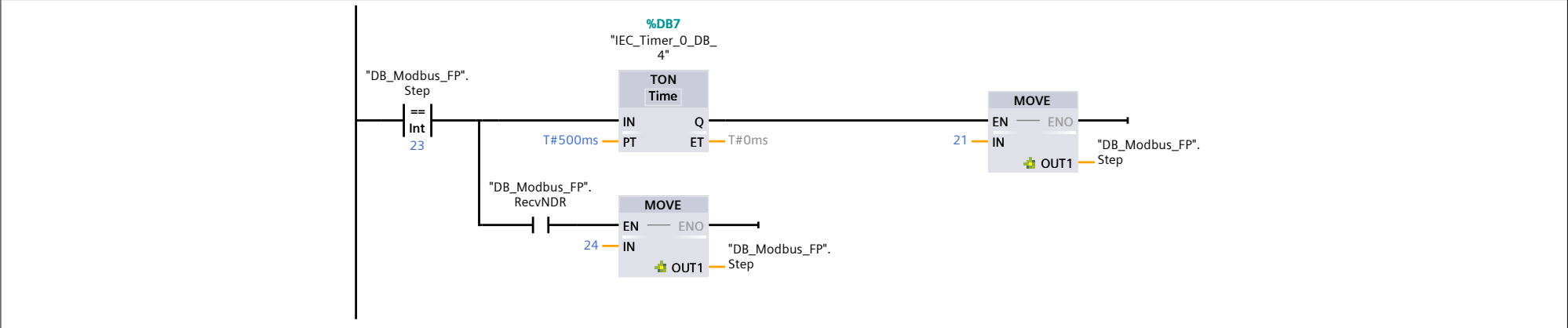
Network 24: Address 14 Network 1 Step=21



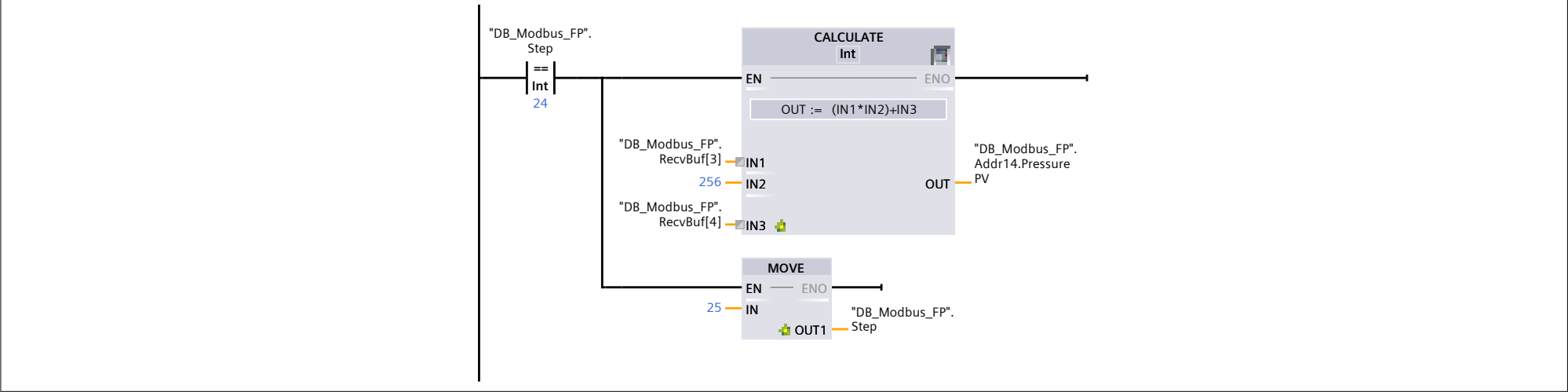
Network 25: Address 14 Network 2 Step=22



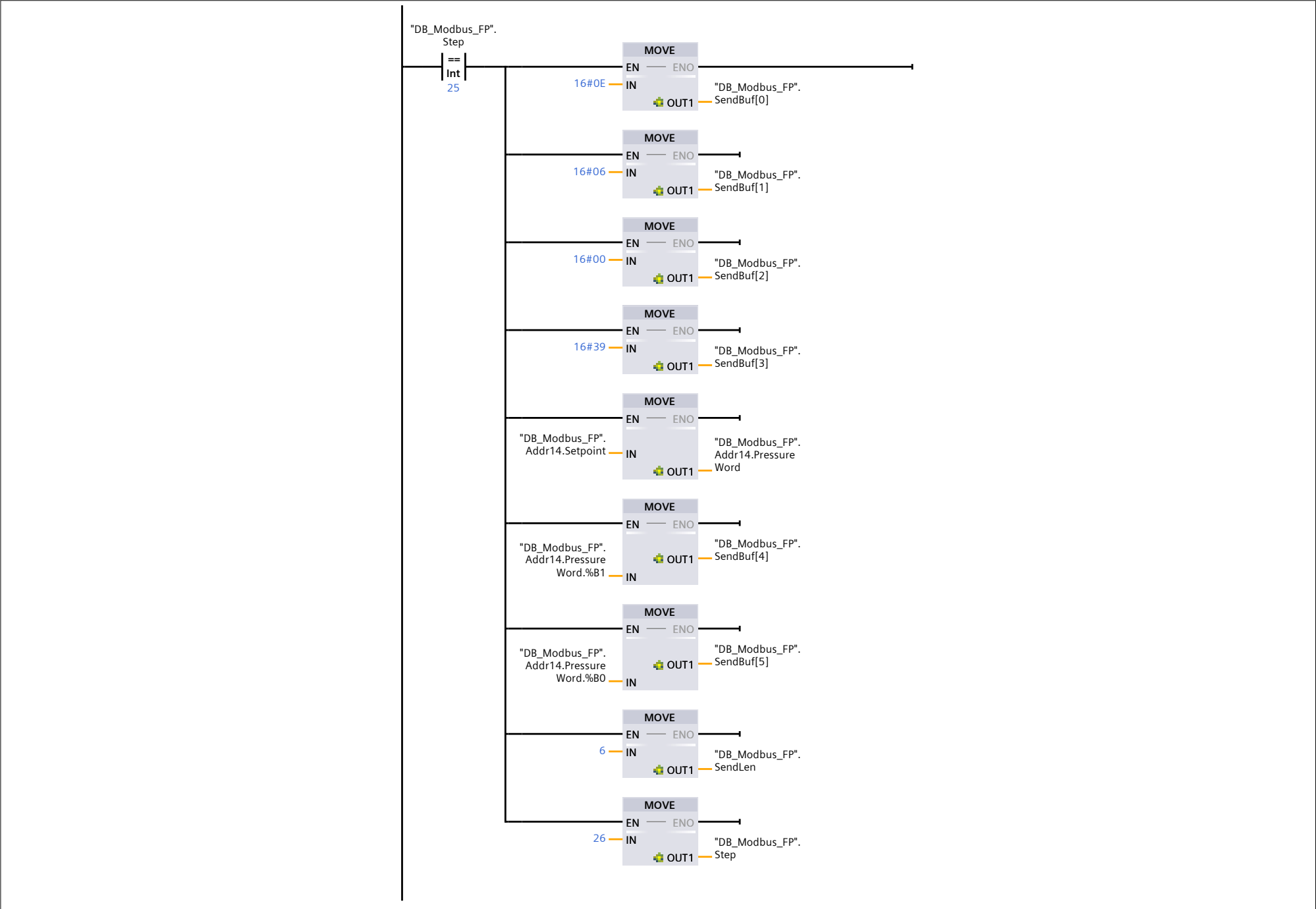
Network 26: Address 14 Network 3 Step=23



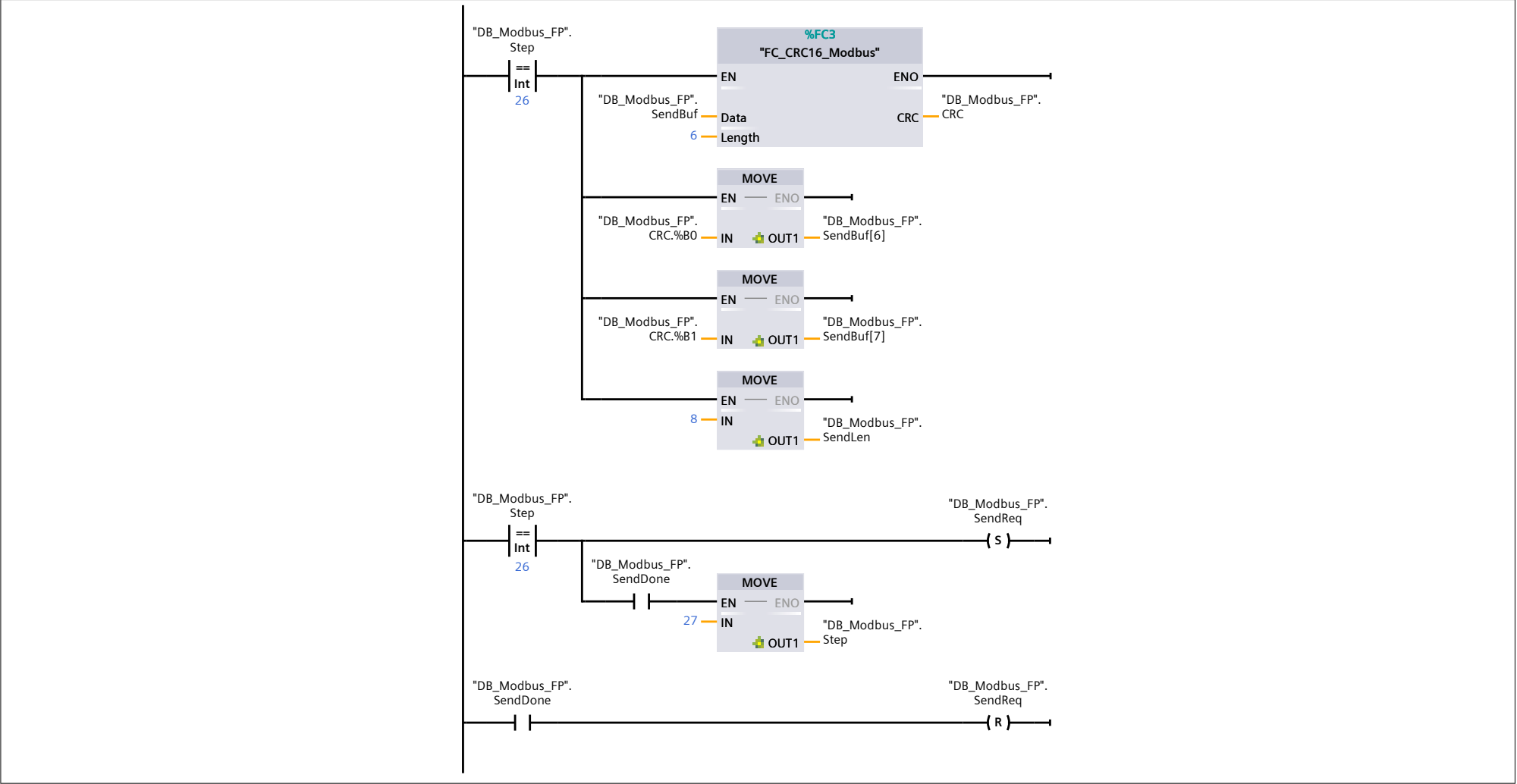
Network 27: Address 14 Network 4 Step=24



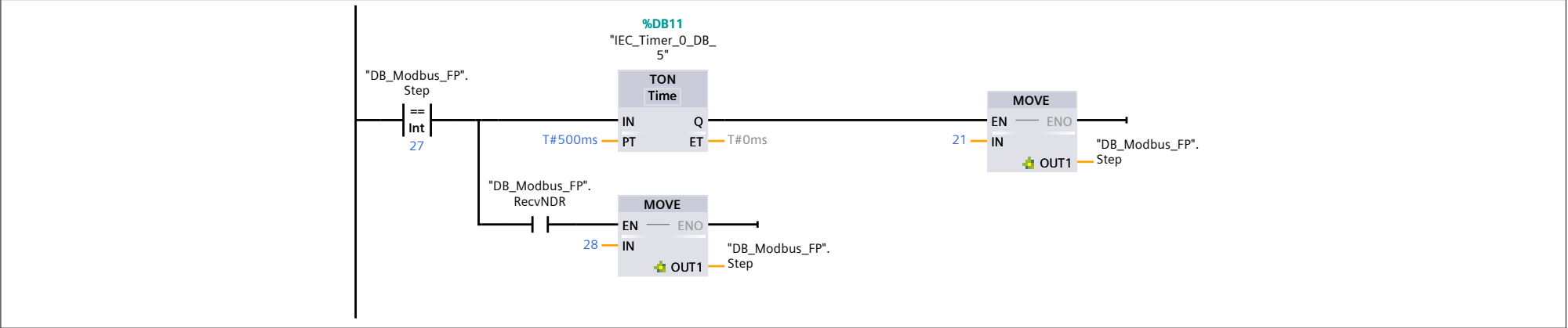
Network 28: Address 14 Network 5 Step=25



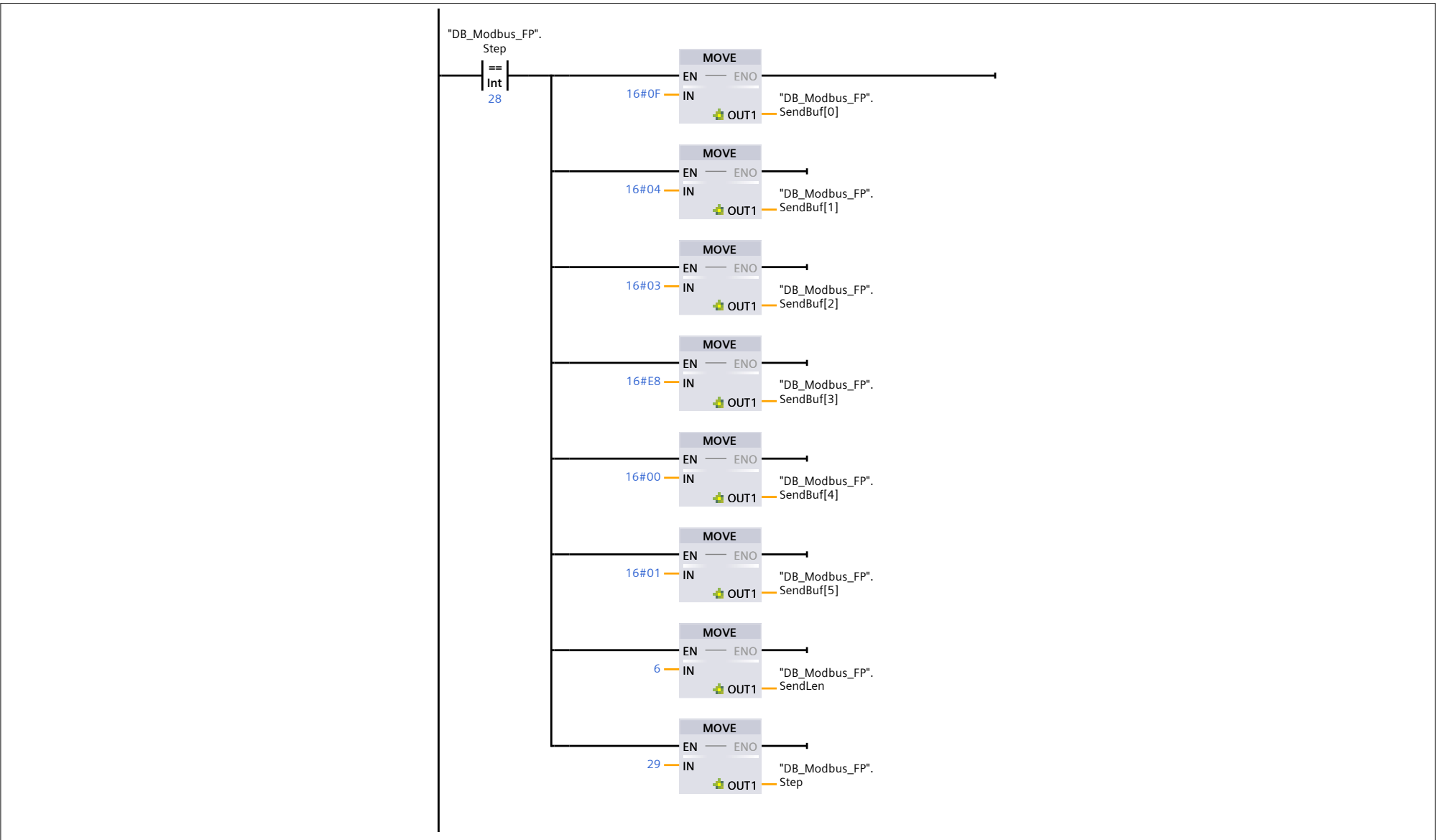
Network 29: Address 14 Network 6 Step=26



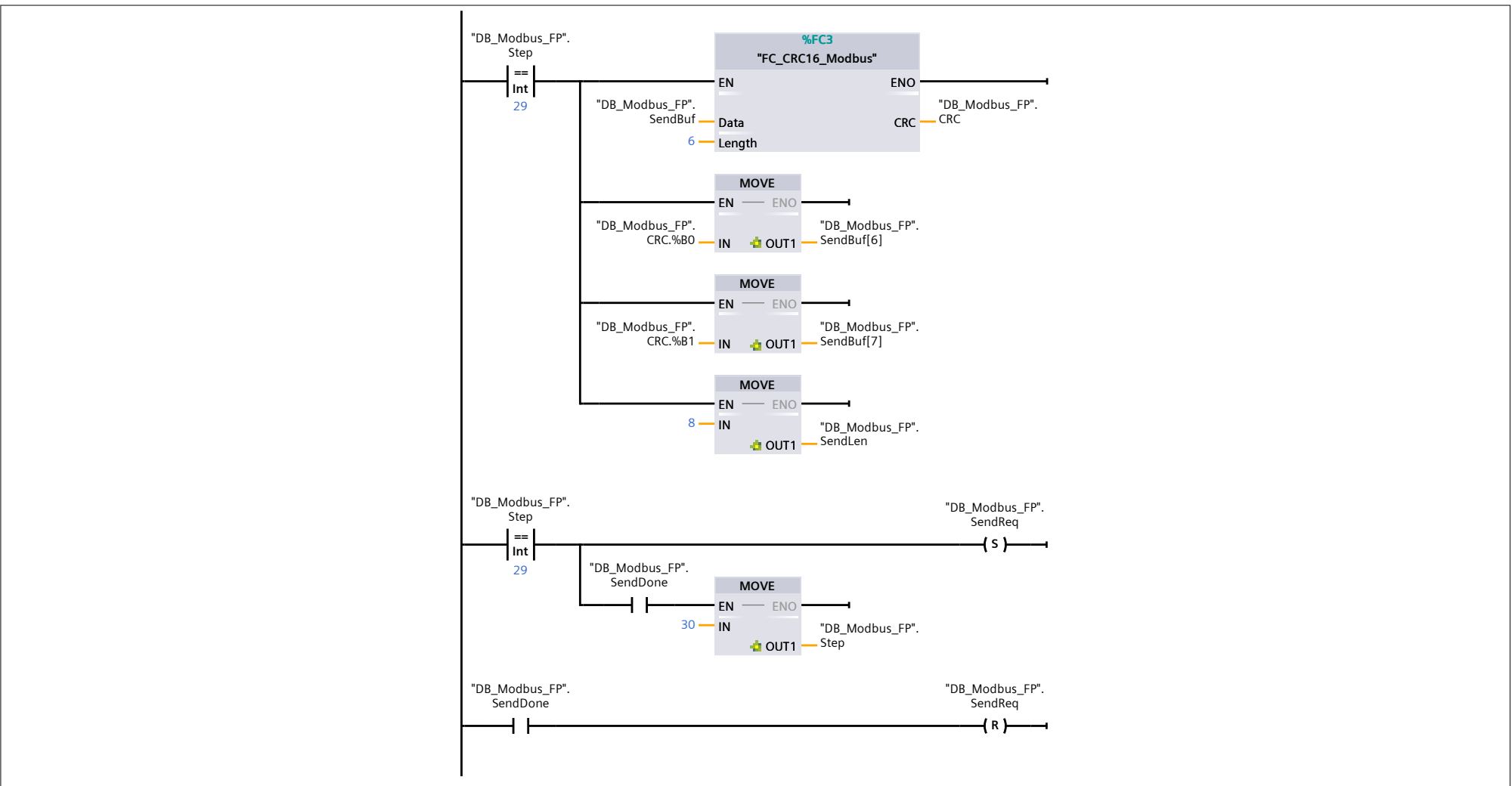
Network 30: Address 14 Network 7 Step=27



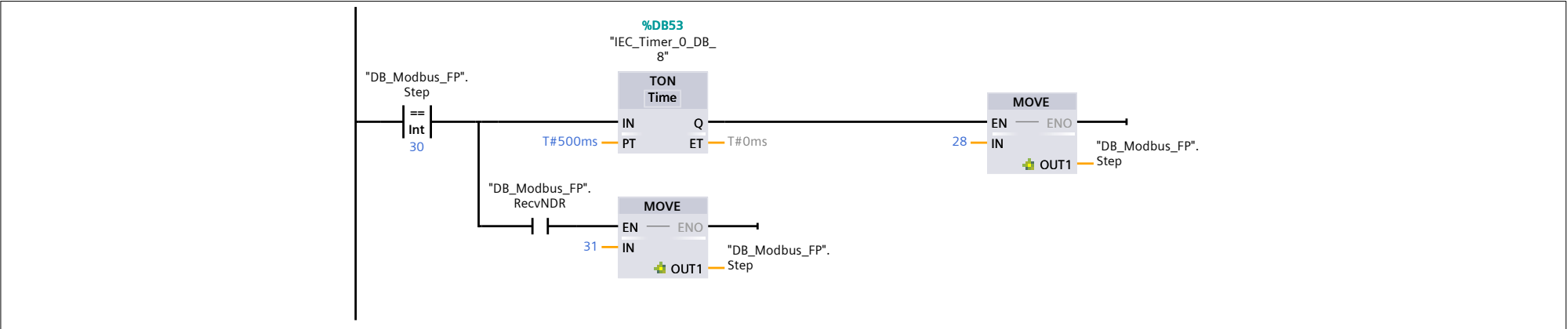
Network 31: Address 15 Network 1 Step=28



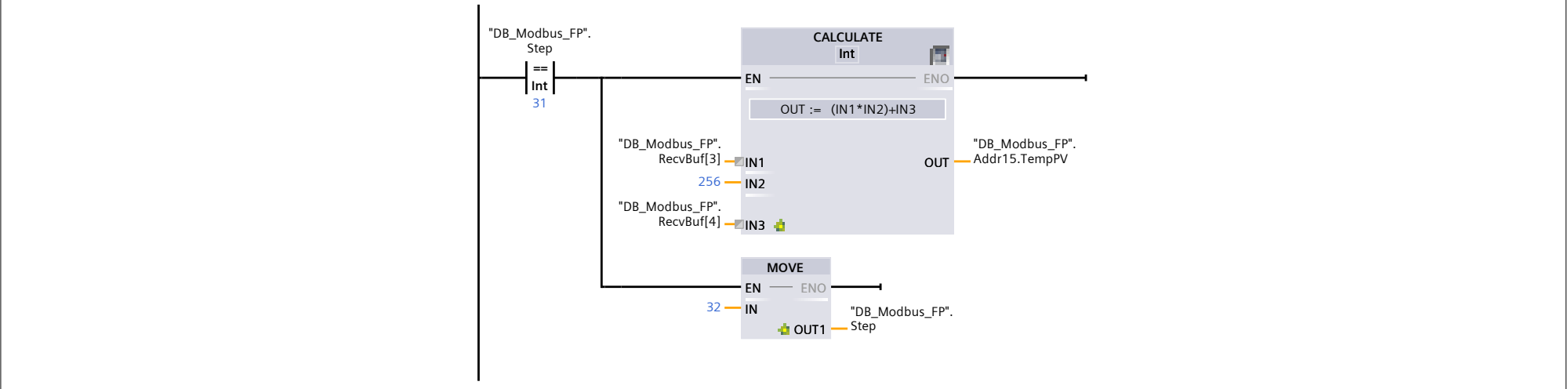
Network 32: Address 15 Network 2 Step=29



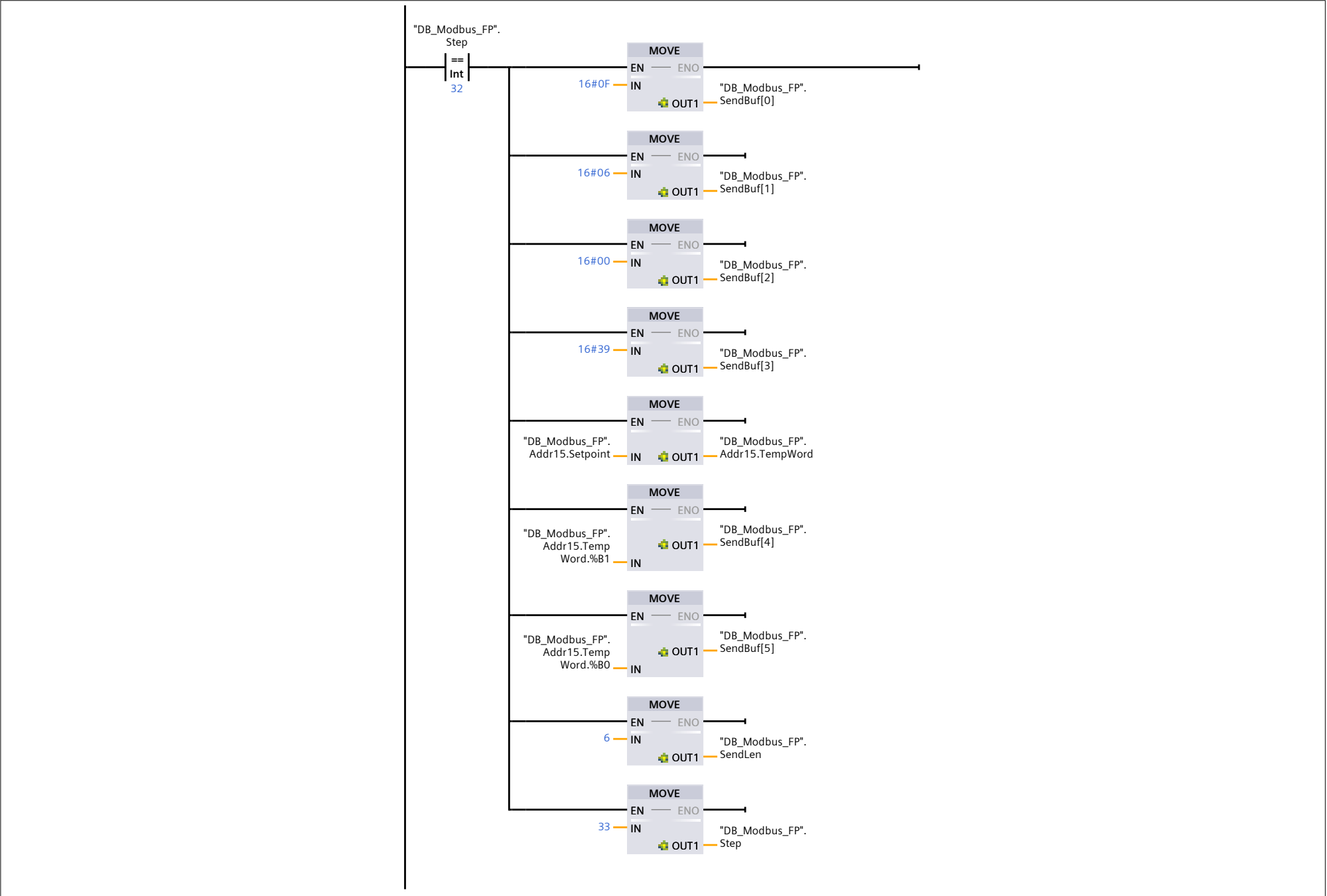
Network 33: Address 15 Network 3 Step=30



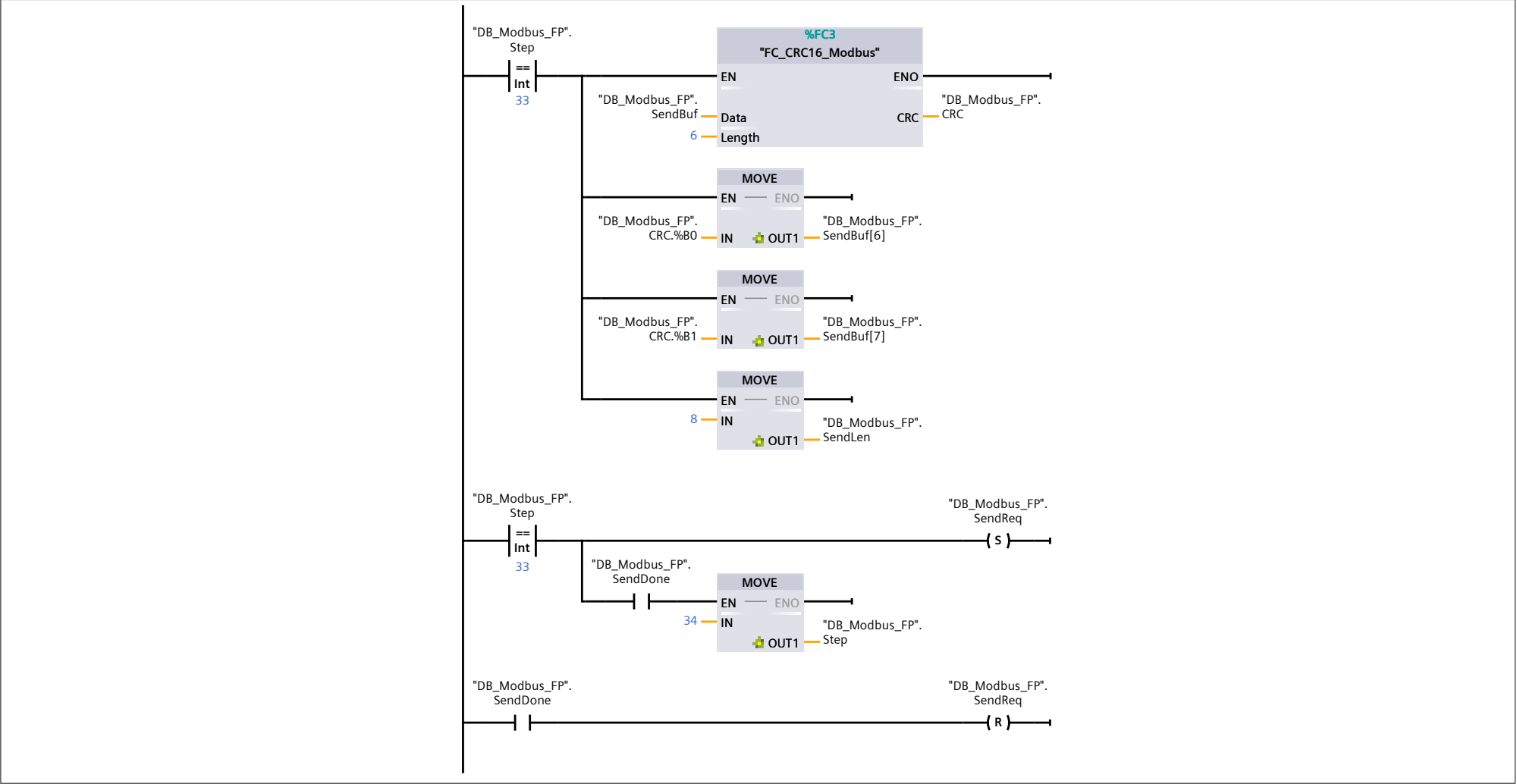
Network 34: Address 15 Network 4 Step=31



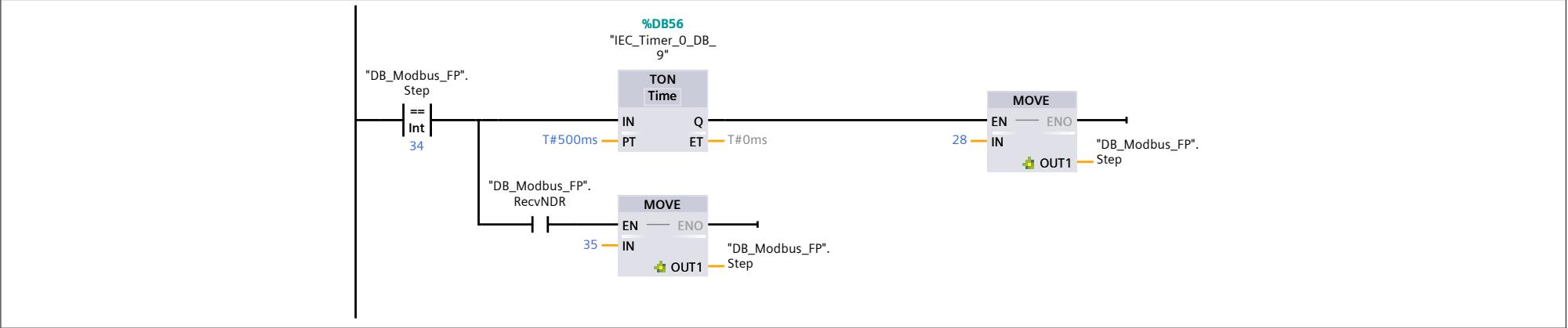
Network 35: Address 15 Network 5 Step=32



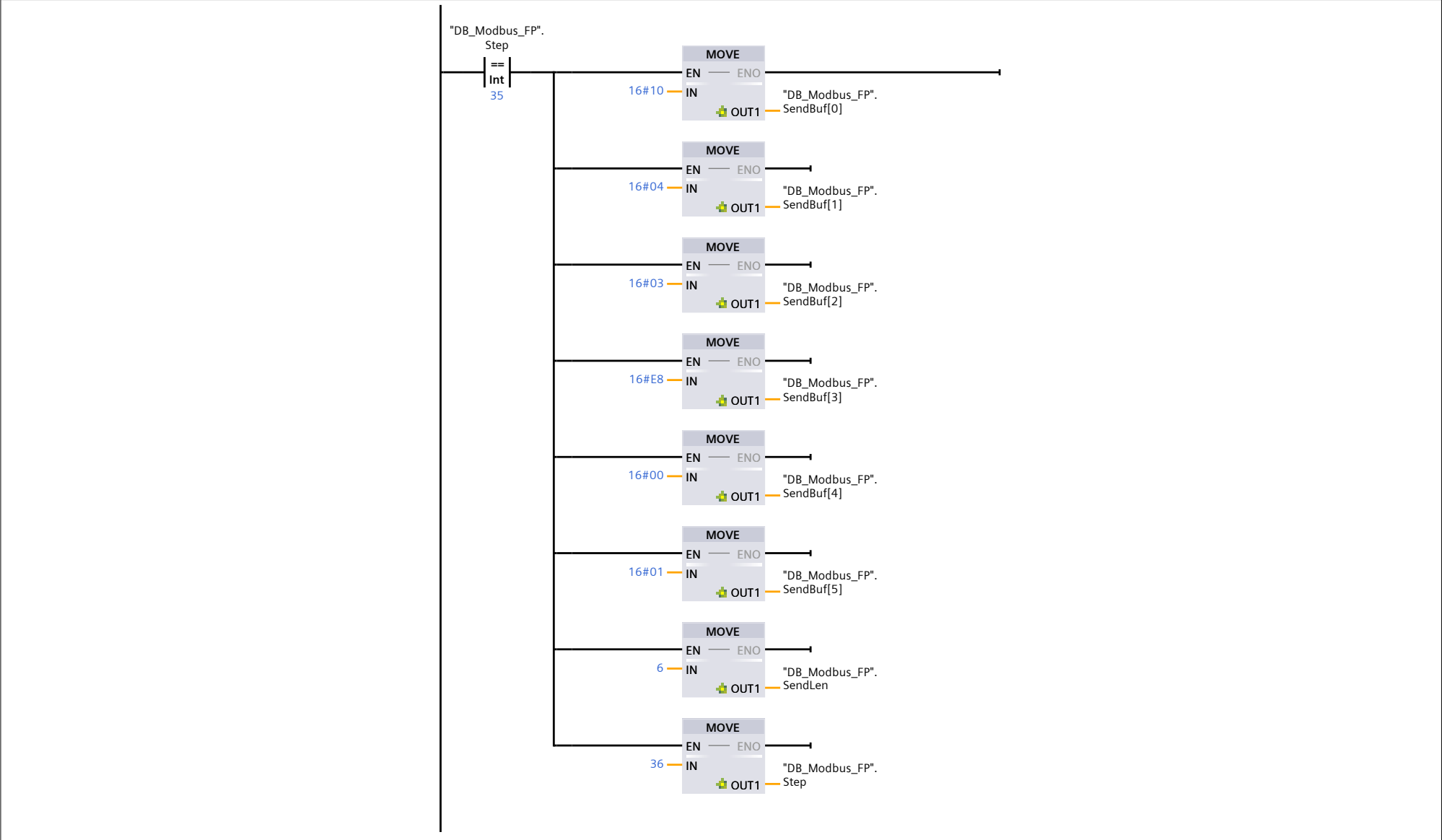
Network 36: Address 15 Network 6 Step=33



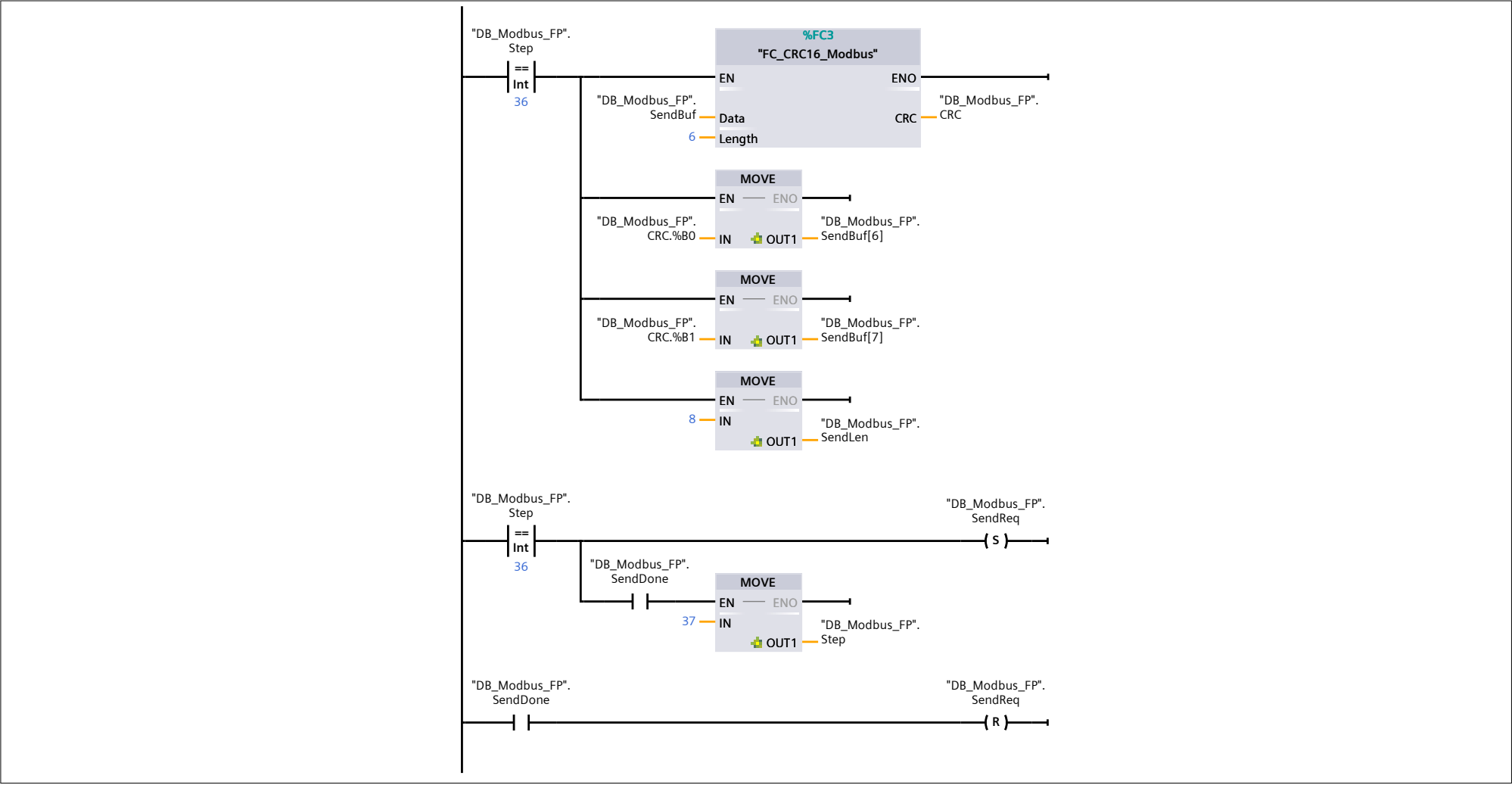
Network 37: Address 15 Network 7 Step=34



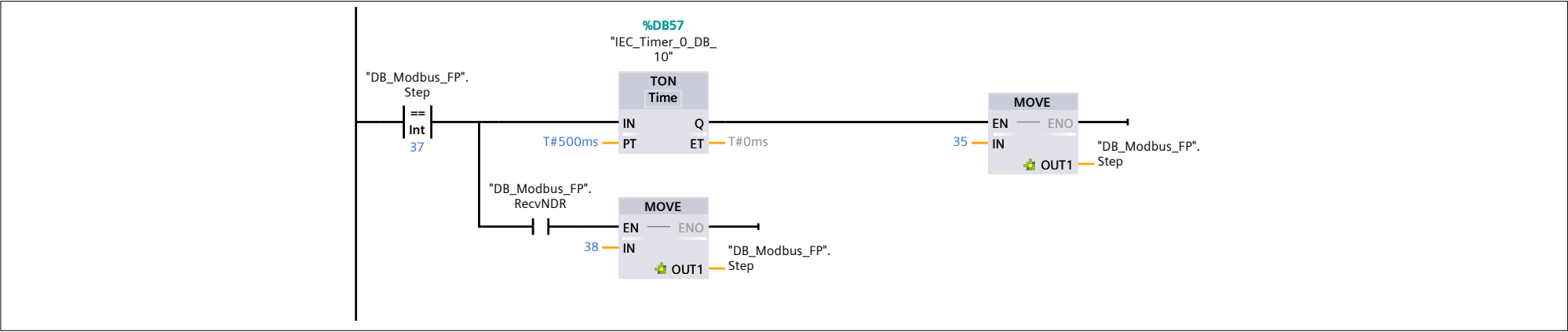
Network 38: Address 16 Network 1 Step=35



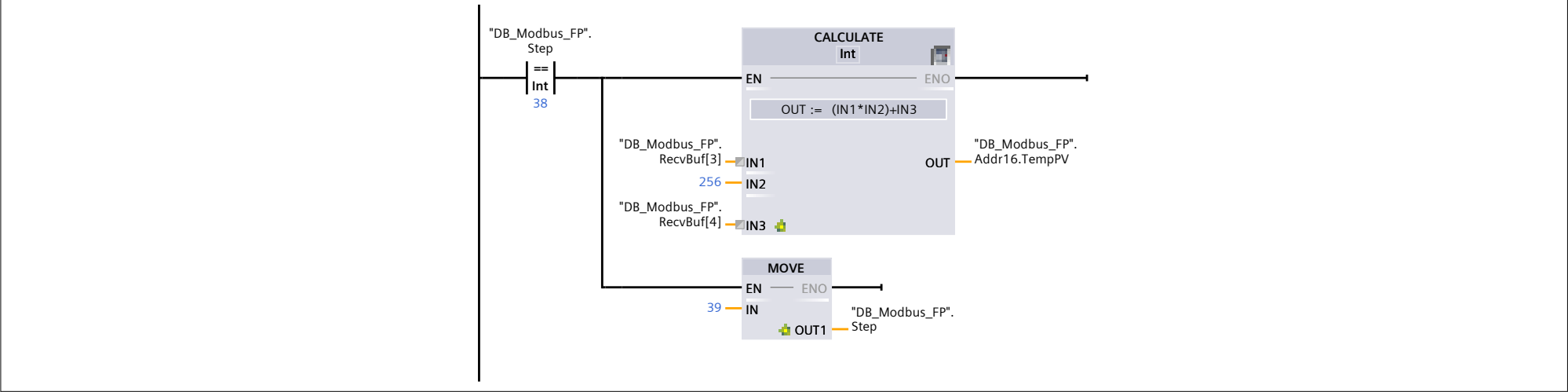
Network 39: Address 16 Network 2 Step=36



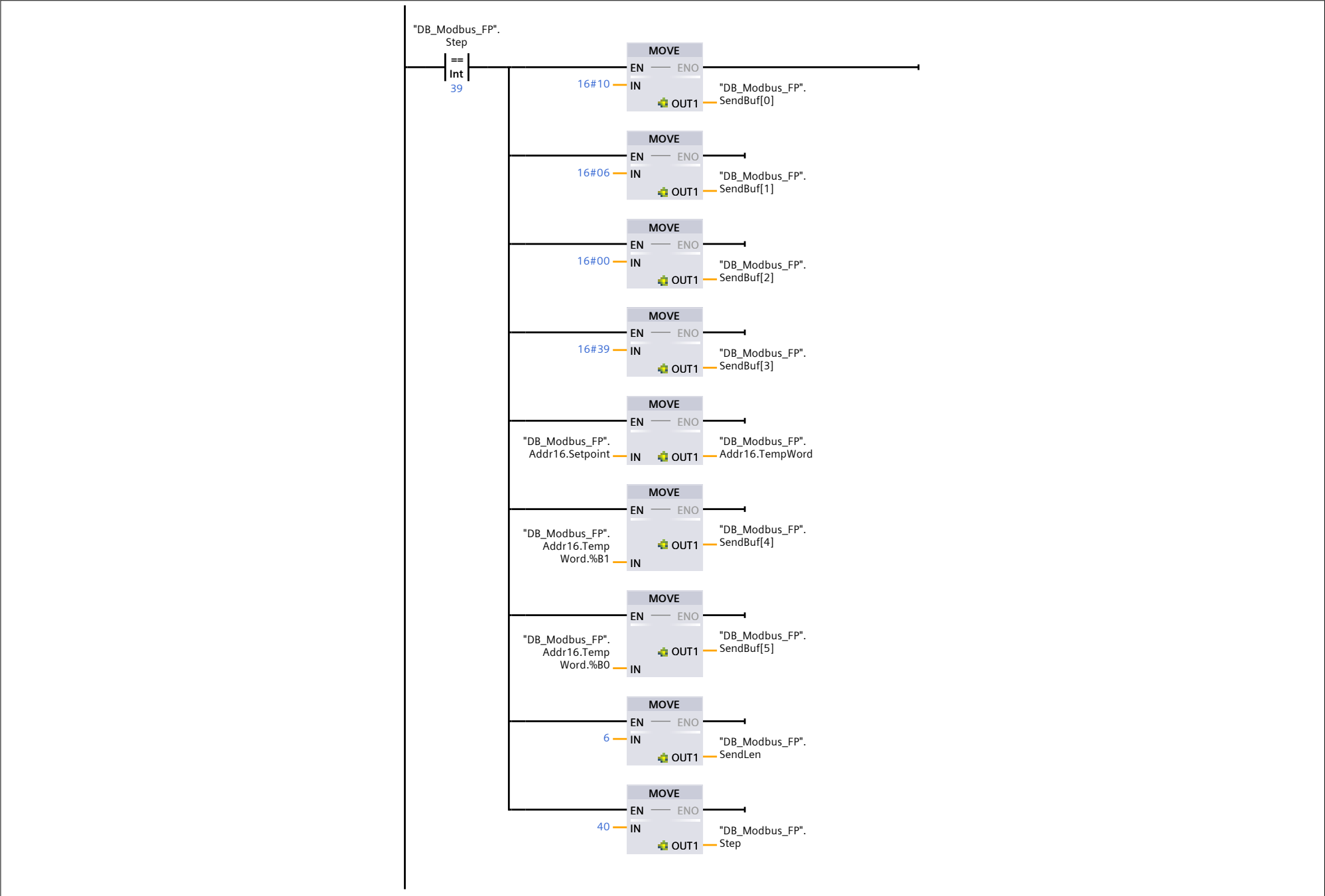
Network 40: Address 16 Network 3 Step=37



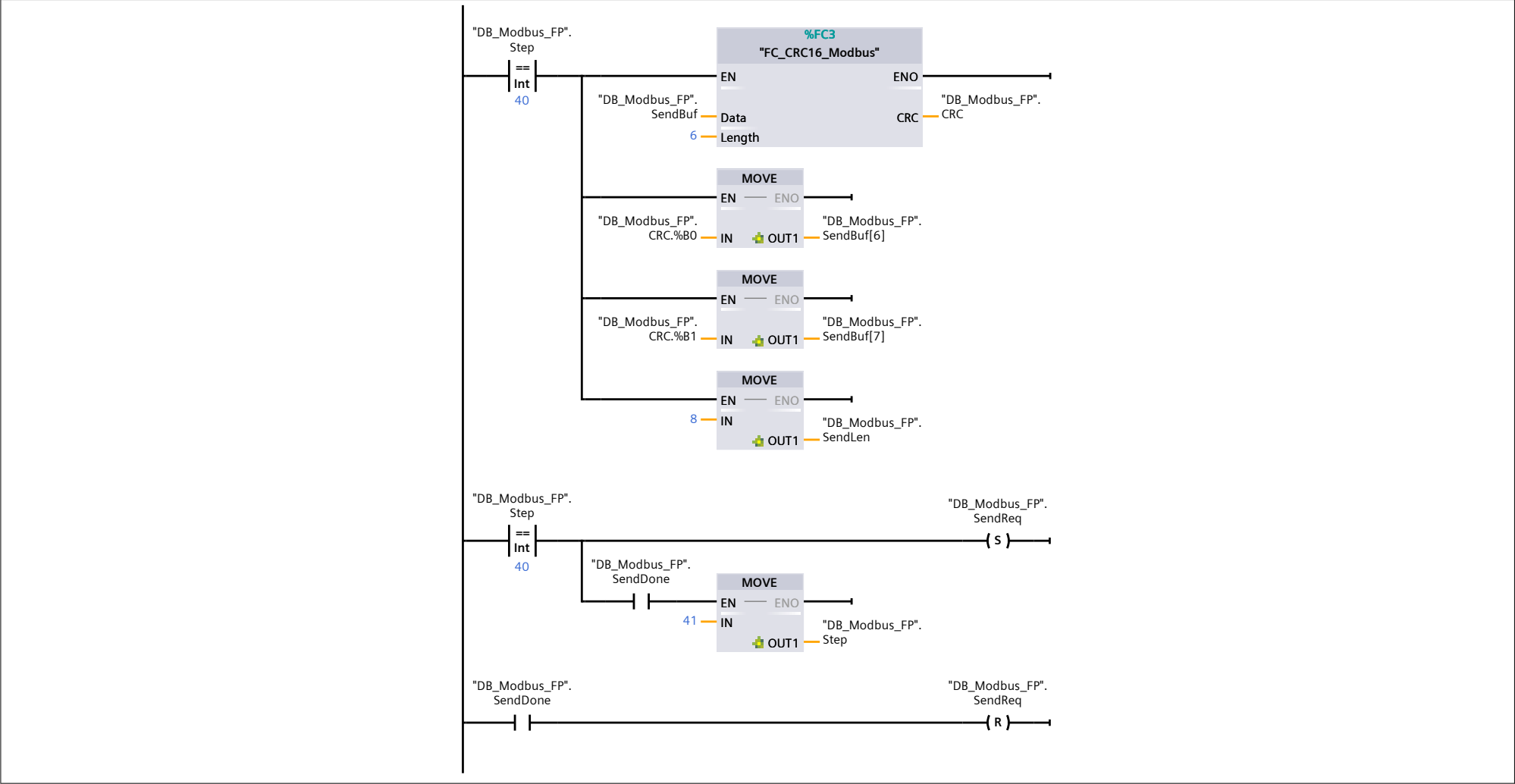
Network 41: Address 16 Network 4 Step=38



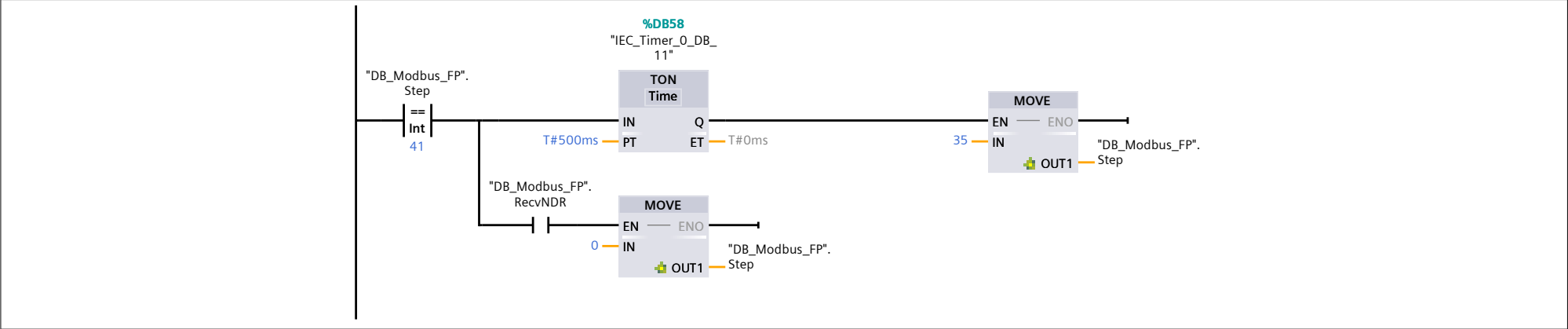
Network 42: Address 16 Network 5 Step=39



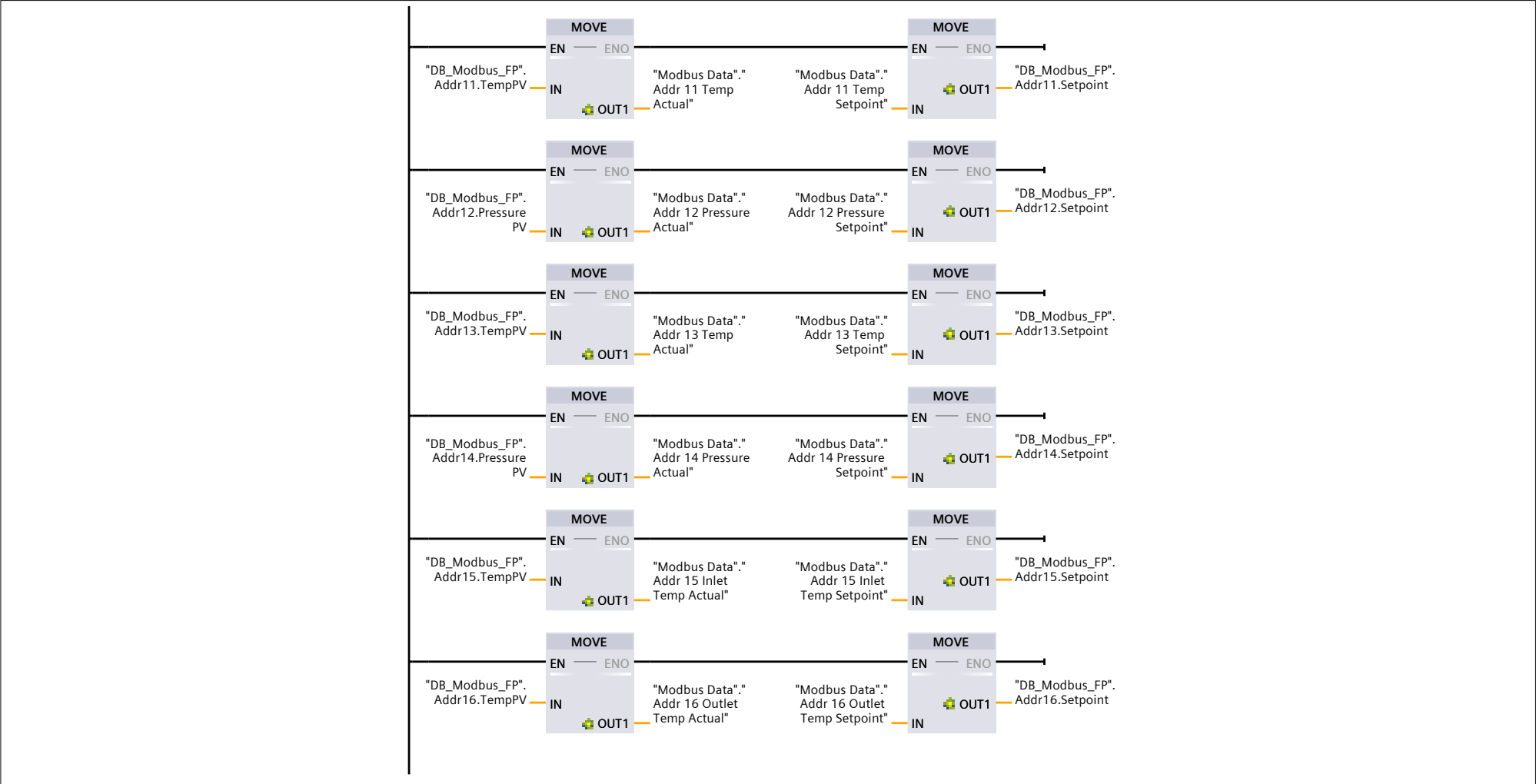
Network 43: Address 16 Network 6 Step=40



Network 44: Address 16 Network 7 Step=41



Network 45:



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Oil Line / Oil_Line_CPU [CPU 1513-1 PN] / Program blocks / P2P Modbus

FC_CRC16_Modbus [FC3]

FC_CRC16_Modbus Properties

General

Name	FC_CRC16_Modbus	Number	3	Type	FC	Language	SCL
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

FC_CRC16_Modbus

Name	Data type	Default value	Comment
▼ Input			
▼ Data	Array[0..255] of Byte		
Data[0]	Byte		
Data[1]	Byte		
Data[2]	Byte		
Data[3]	Byte		
Data[4]	Byte		
Data[5]	Byte		
Data[6]	Byte		
Data[7]	Byte		
Data[8]	Byte		
Data[9]	Byte		
Data[10]	Byte		
Data[11]	Byte		
Data[12]	Byte		
Data[13]	Byte		
Data[14]	Byte		
Data[15]	Byte		
Data[16]	Byte		
Data[17]	Byte		
Data[18]	Byte		
Data[19]	Byte		
Data[20]	Byte		
Data[21]	Byte		
Data[22]	Byte		
Data[23]	Byte		
Data[24]	Byte		
Data[25]	Byte		
Data[26]	Byte		
Data[27]	Byte		
Data[28]	Byte		
Data[29]	Byte		
Data[30]	Byte		
Data[31]	Byte		
Data[32]	Byte		
Data[33]	Byte		
Data[34]	Byte		
Data[35]	Byte		
Data[36]	Byte		
Data[37]	Byte		
Data[38]	Byte		
Data[39]	Byte		
Data[40]	Byte		
Data[41]	Byte		
Data[42]	Byte		
Data[43]	Byte		
Data[44]	Byte		
Data[45]	Byte		
Data[46]	Byte		
Data[47]	Byte		
Data[48]	Byte		
Data[49]	Byte		
Data[50]	Byte		
Data[51]	Byte		
Data[52]	Byte		
Data[53]	Byte		
Data[54]	Byte		
Data[55]	Byte		
Data[56]	Byte		
Data[57]	Byte		
Data[58]	Byte		
Data[59]	Byte		
Data[60]	Byte		
Data[61]	Byte		
Data[62]	Byte		

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Name	Data type	Default value	Comment	
Data[63]	Byte			
Data[64]	Byte			
Data[65]	Byte			
Data[66]	Byte			
Data[67]	Byte			
Data[68]	Byte			
Data[69]	Byte			
Data[70]	Byte			
Data[71]	Byte			
Data[72]	Byte			
Data[73]	Byte			
Data[74]	Byte			
Data[75]	Byte			
Data[76]	Byte			
Data[77]	Byte			
Data[78]	Byte			
Data[79]	Byte			
Data[80]	Byte			
Data[81]	Byte			
Data[82]	Byte			
Data[83]	Byte			
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Data[87]	Byte			
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Data[111]	Byte			
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Data[115]	Byte			
Data[116]	Byte			
Data[117]	Byte			
Data[118]	Byte			
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Data[121]	Byte			
Data[122]	Byte			
Data[123]	Byte			
Data[124]	Byte			
Data[125]	Byte			
Data[126]	Byte			
Data[127]	Byte			
Data[128]	Byte			
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Data[130]	Byte			
Data[131]	Byte			
Data[132]	Byte			
Data[133]	Byte			
Data[134]	Byte			
Data[135]	Byte			
Data[136]	Byte			
Data[137]	Byte			
Data[138]	Byte			
Data[139]	Byte			
Data[140]	Byte			
Data[141]	Byte			

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Name	Data type	Default value	Comment	
Data[142]	Byte			
Data[143]	Byte			
Data[144]	Byte			
Data[145]	Byte			
Data[146]	Byte			
Data[147]	Byte			
Data[148]	Byte			
Data[149]	Byte			
Data[150]	Byte			
Data[151]	Byte			
Data[152]	Byte			
Data[153]	Byte			
Data[154]	Byte			
Data[155]	Byte			
Data[156]	Byte			
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Data[158]	Byte			
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Data[162]	Byte			
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Data[165]	Byte			
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Data[167]	Byte			
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Data[169]	Byte			
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Data[172]	Byte			
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Data[208]	Byte			
Data[209]	Byte			
Data[210]	Byte			
Data[211]	Byte			
Data[212]	Byte			
Data[213]	Byte			
Data[214]	Byte			
Data[215]	Byte			
Data[216]	Byte			
Data[217]	Byte			
Data[218]	Byte			
Data[219]	Byte			
Data[220]	Byte			

Totally Integrated Automation Portal																																																																																																																																																																																																			
<table><tr><th>Name</th><th>Data type</th><th>Default value</th><th>Comment</th></tr><tr><td>Data[221]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[222]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[223]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[224]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[225]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[226]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[227]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[228]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[229]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[230]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[231]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[232]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[233]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[234]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[235]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[236]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[237]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[238]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[239]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[240]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[241]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[242]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[243]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[244]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[245]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[246]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[247]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[248]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[249]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[250]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[251]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[252]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[253]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[254]</td><td>Byte</td><td></td><td></td></tr><tr><td>Data[255]</td><td>Byte</td><td></td><td></td></tr><tr><td>Length</td><td>UInt</td><td></td><td></td></tr><tr><td>▼ Output</td><td></td><td></td><td></td></tr><tr><td>CRC</td><td>Word</td><td></td><td></td></tr><tr><td>InOut</td><td></td><td></td><td></td></tr><tr><td>▼ Temp</td><td></td><td></td><td></td></tr><tr><td>i</td><td>UInt</td><td></td><td></td></tr><tr><td>j</td><td>UInt</td><td></td><td></td></tr><tr><td>crc_temp</td><td>Word</td><td></td><td></td></tr><tr><td>b</td><td>Byte</td><td></td><td></td></tr><tr><td>Constant</td><td></td><td></td><td></td></tr><tr><td>▼ Return</td><td></td><td></td><td></td></tr><tr><td>FC_CRC16_Modbus</td><td>Void</td><td></td><td></td></tr></table>				Name	Data type	Default value	Comment	Data[221]	Byte			Data[222]	Byte			Data[223]	Byte			Data[224]	Byte			Data[225]	Byte			Data[226]	Byte			Data[227]	Byte			Data[228]	Byte			Data[229]	Byte			Data[230]	Byte			Data[231]	Byte			Data[232]	Byte			Data[233]	Byte			Data[234]	Byte			Data[235]	Byte			Data[236]	Byte			Data[237]	Byte			Data[238]	Byte			Data[239]	Byte			Data[240]	Byte			Data[241]	Byte			Data[242]	Byte			Data[243]	Byte			Data[244]	Byte			Data[245]	Byte			Data[246]	Byte			Data[247]	Byte			Data[248]	Byte			Data[249]	Byte			Data[250]	Byte			Data[251]	Byte			Data[252]	Byte			Data[253]	Byte			Data[254]	Byte			Data[255]	Byte			Length	UInt			▼ Output				CRC	Word			InOut				▼ Temp				i	UInt			j	UInt			crc_temp	Word			b	Byte			Constant				▼ Return				FC_CRC16_Modbus	Void		
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<pre>0001 #crc_temp := 16#FFFF; // مقدار اولیه CRC 0002 0003 FOR #i := 0 TO (#Length - 1) DO 0004 #b := #Data[#i]; 0005 #crc_temp := #crc_temp XOR BYTE_TO_WORD(#b); 0006 0007 FOR #j := 0 TO 7 DO 0008 IF (#crc_temp AND 16#0001) <> 0 THEN 0009 #crc_temp := SHR(IN := #crc_temp, N := 1); 0010 #crc_temp := #crc_temp XOR 16#A001; 0011 ELSE 0012 #crc_temp := SHR(IN := #crc_temp, N := 1); 0013 END_IF; 0014 END_FOR; 0015 END_FOR; 0016 0017 #CRC := #crc_temp;</pre>																																																																																																																																																																																																			
<table><tr><th>Symbol</th><th>Address</th><th>Type</th><th>Comment</th></tr><tr><td>#b</td><td></td><td>Byte</td><td></td></tr><tr><td>#CRC</td><td></td><td>Word</td><td></td></tr><tr><td>#crc_temp</td><td></td><td>Word</td><td></td></tr><tr><td>#Data[*]</td><td></td><td>Byte</td><td></td></tr><tr><td>#i</td><td></td><td>UInt</td><td></td></tr><tr><td>#j</td><td></td><td>UInt</td><td></td></tr><tr><td>#Length</td><td></td><td>UInt</td><td></td></tr></table>				Symbol	Address	Type	Comment	#b		Byte		#CRC		Word		#crc_temp		Word		#Data[*]		Byte		#i		UInt		#j		UInt		#Length		UInt																																																																																																																																																																	
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Totally Integrated Automation Portal

Oil Line / Oil_Line_CPU [CPU 1513-1 PN] / Program blocks / P2P Modbus

DB_Modbus_FP [DB10]

DB_Modbus_FP Properties

General

Name	DB_Modbus_FP	Number	10	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion	Comment
▼ Static									
▼ SendBuf	Array[0..255] of Byte		False	True	True	True	False		
SendBuf[0]	Byte	16#0	False	True	True	True	False		Slave Address
SendBuf[1]	Byte	16#0	False	True	True	True	False		Function Code
SendBuf[2]	Byte	16#0	False	True	True	True	False		Start Address High
SendBuf[3]	Byte	16#0	False	True	True	True	False		Start Address Low
SendBuf[4]	Byte	16#0	False	True	True	True	False		Quantity High
SendBuf[5]	Byte	16#0	False	True	True	True	False		Quantity Low
SendBuf[6]	Byte	16#0	False	True	True	True	False		
SendBuf[7]	Byte	16#0	False	True	True	True	False		
SendBuf[8]	Byte	16#0	False	True	True	True	False		
SendBuf[9]	Byte	16#0	False	True	True	True	False		
SendBuf[10]	Byte	16#0	False	True	True	True	False		
SendBuf[11]	Byte	16#0	False	True	True	True	False		
SendBuf[12]	Byte	16#0	False	True	True	True	False		
SendBuf[13]	Byte	16#0	False	True	True	True	False		
SendBuf[14]	Byte	16#0	False	True	True	True	False		
SendBuf[15]	Byte	16#0	False	True	True	True	False		
SendBuf[16]	Byte	16#0	False	True	True	True	False		
SendBuf[17]	Byte	16#0	False	True	True	True	False		
SendBuf[18]	Byte	16#0	False	True	True	True	False		
SendBuf[19]	Byte	16#0	False	True	True	True	False		
SendBuf[20]	Byte	16#0	False	True	True	True	False		
SendBuf[21]	Byte	16#0	False	True	True	True	False		
SendBuf[22]	Byte	16#0	False	True	True	True	False		
SendBuf[23]	Byte	16#0	False	True	True	True	False		
SendBuf[24]	Byte	16#0	False	True	True	True	False		
SendBuf[25]	Byte	16#0	False	True	True	True	False		
SendBuf[26]	Byte	16#0	False	True	True	True	False		
SendBuf[27]	Byte	16#0	False	True	True	True	False		
SendBuf[28]	Byte	16#0	False	True	True	True	False		
SendBuf[29]	Byte	16#0	False	True	True	True	False		
SendBuf[30]	Byte	16#0	False	True	True	True	False		
SendBuf[31]	Byte	16#0	False	True	True	True	False		
SendBuf[32]	Byte	16#0	False	True	True	True	False		
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SendBuf[47]	Byte	16#0	False	True	True	True	False		
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SendBuf[52]	Byte	16#0	False	True	True	True	False		
SendBuf[53]	Byte	16#0	False	True	True	True	False		
SendBuf[54]	Byte	16#0	False	True	True	True	False		
SendBuf[55]	Byte	16#0	False	True	True	True	False		
SendBuf[56]	Byte	16#0	False	True	True	True	False		

Totally Integrated Automation Portal

Oil Line / Oil_Line_CPU [CPU 1513-1 PN] / Program blocks / P2P Modbus

Modbus Data [DB8]

Modbus Data Properties

General

Name	Modbus Data	Number	8	Type	DB	Language	DB
Numbering	Automatic						

Information

Title		Author		Comment		Family	
Version	0.1	User-defined ID					

Modbus Data

Name	Data type	Start value	Retain	Accessible from HMI/OPC UA/Web API	Writ-able from HMI/ OPC UA/ Web API	Visible in HMI engi-neering	Setpoint	Supervi-sion				Comment
▼ Static												
Addr 11 Temp Actual	Int	0	False	True	True	True	False					
Addr 11 Temp Setpoint	Int	0	True	True	True	True	False					
Addr 12 Pressure Actual	Int	0	False	True	True	True	False					
Addr 12 Pressure Setpoint	Int	0	True	True	True	True	False					
Addr 13 Temp Actual	Int	0	False	True	True	True	False					
Addr 13 Temp Setpoint	Int	0	True	True	True	True	False					
Addr 14 Pressure Actual	Int	0	False	True	True	True	False					
Addr 14 Pressure Setpoint	Int	0	True	True	True	True	False					
Addr 15 Inlet Temp Actual	Int	0	False	True	True	True	False					
Addr 15 Inlet Temp Setpoint	Int	0	True	True	True	True	False					
Addr 16 Outlet Temp Actual	Int	0	False	True	True	True	False					
Addr 16 Outlet Temp Setpoint	Int	0	True	True	True	True	False					