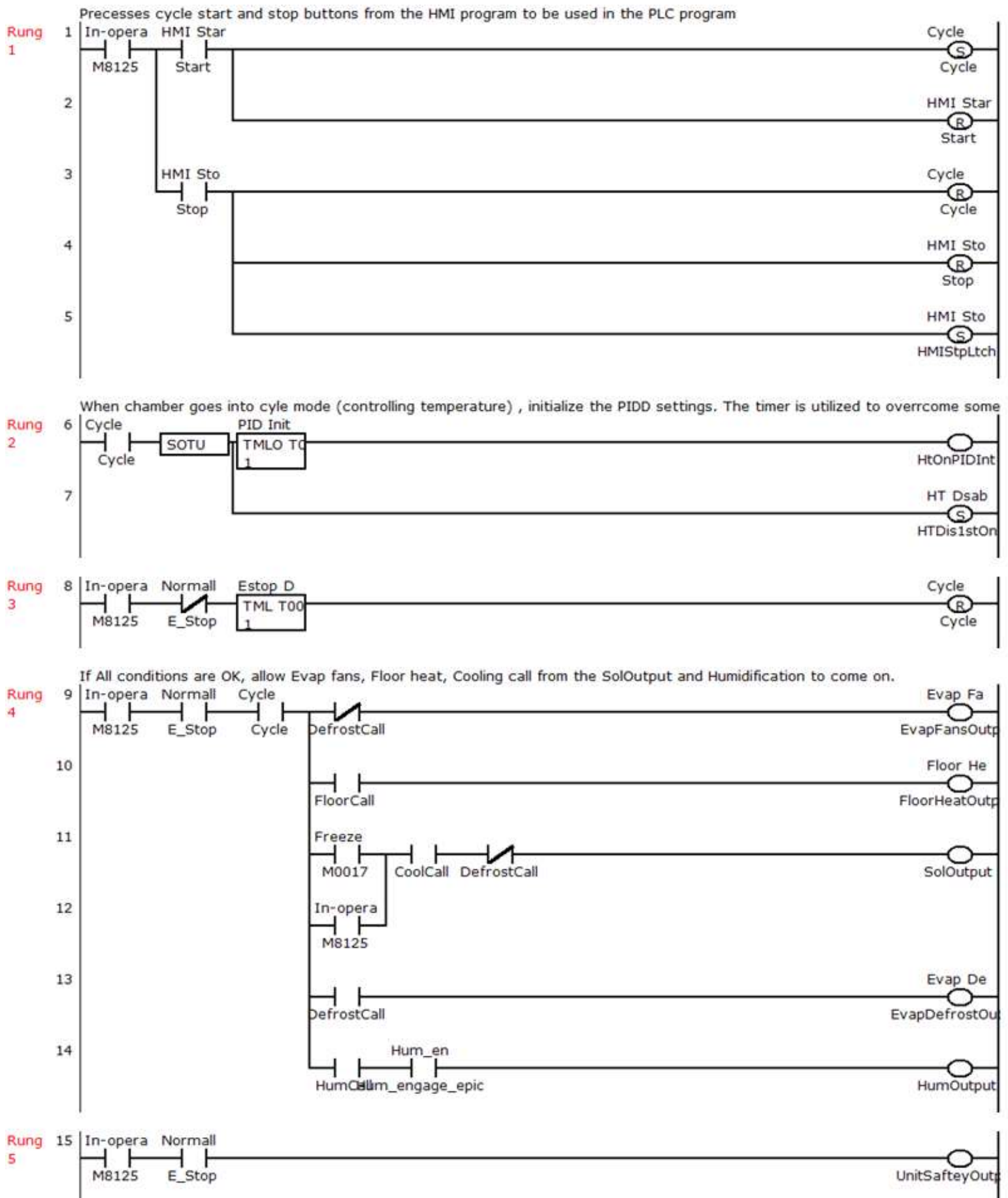


10/29/2025  
Control No.:

To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_

Title: \_\_\_\_\_  
Delivered on:10/29/2025  
Ver.:

Name:  
Address:  
Phone:  
Fax:



Delal turning off the Humidifier for 1800 seconds after the operator "Stops" the system.



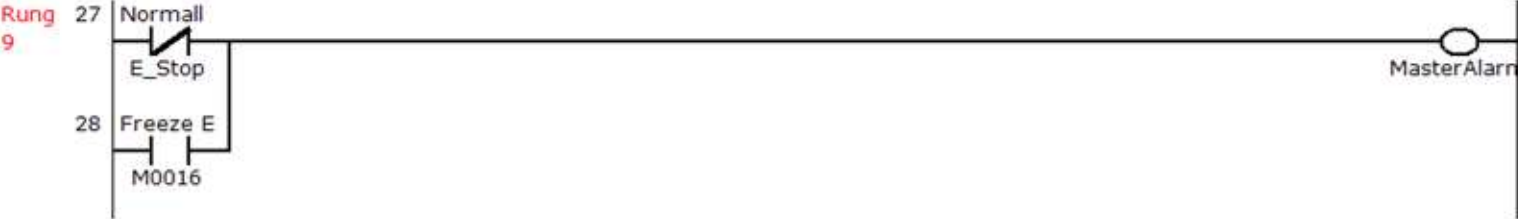
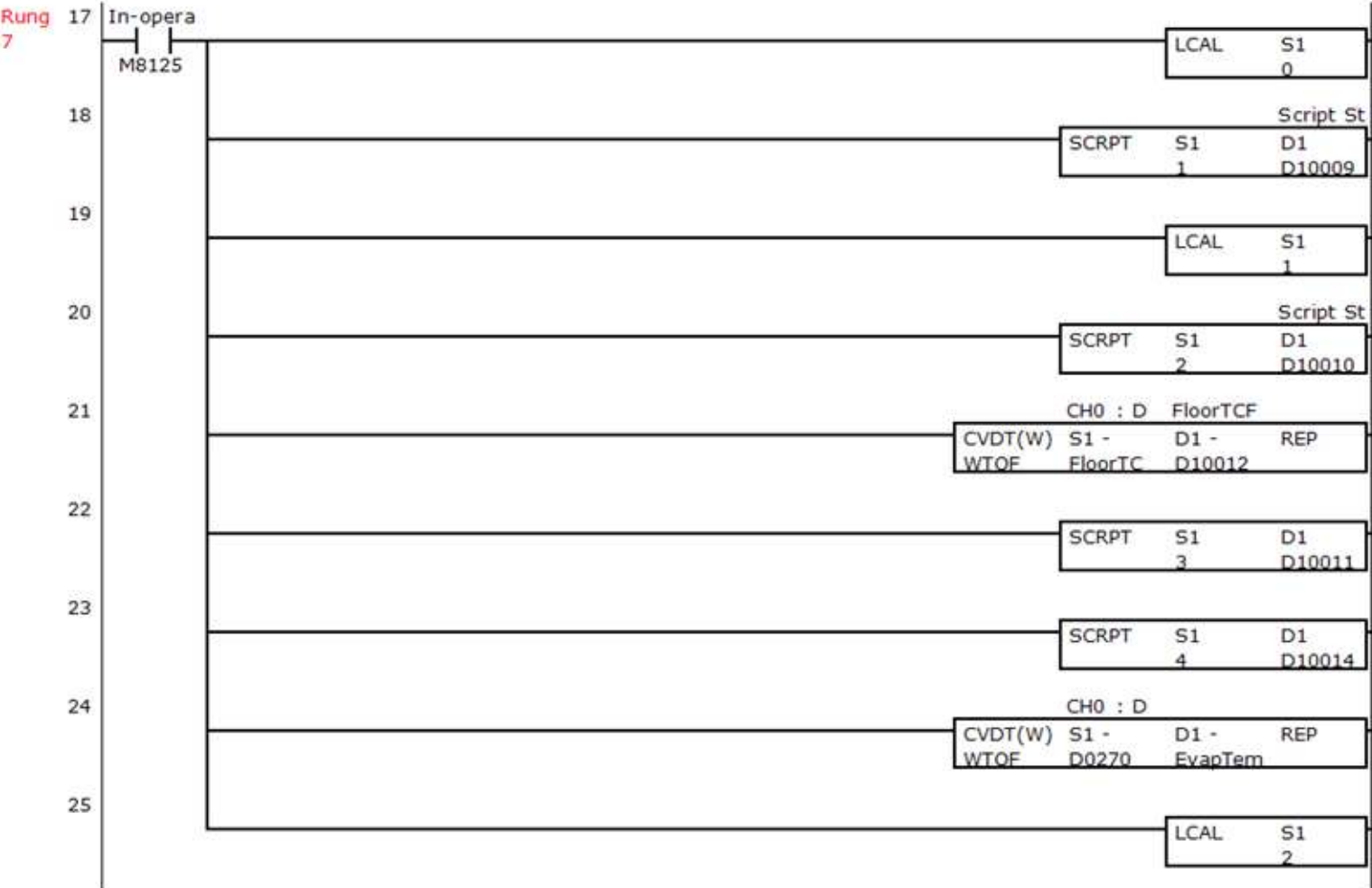
Program Flow

Script 1 is used to average of the RTDs in the chamber.

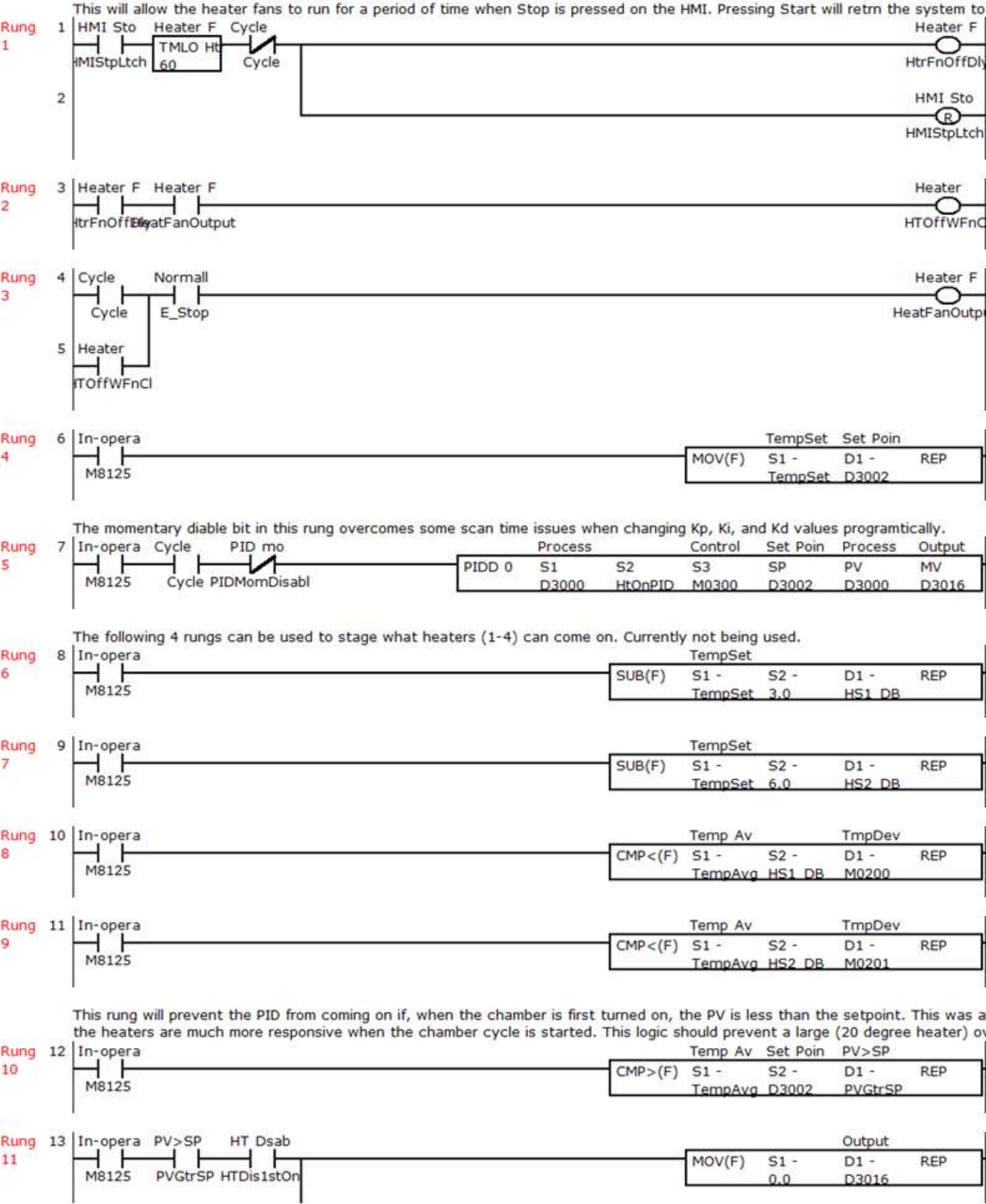
Script 2 looks at cut in and cut out temps for floor heating and engages heat.

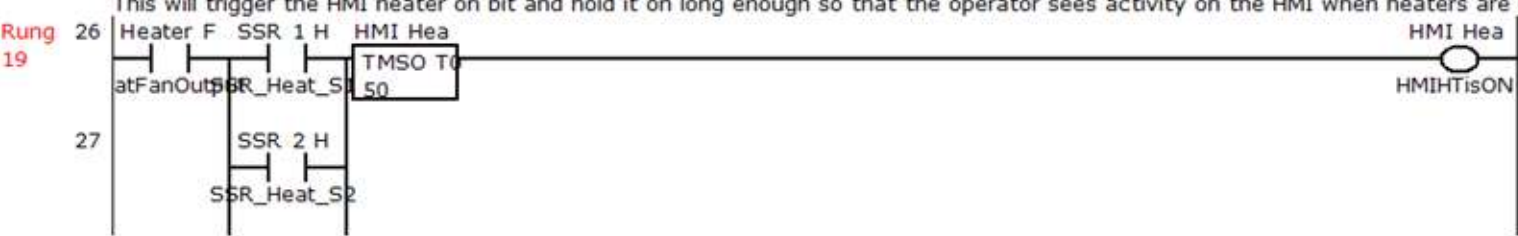
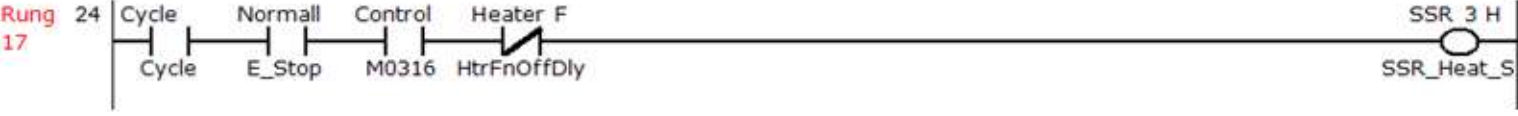
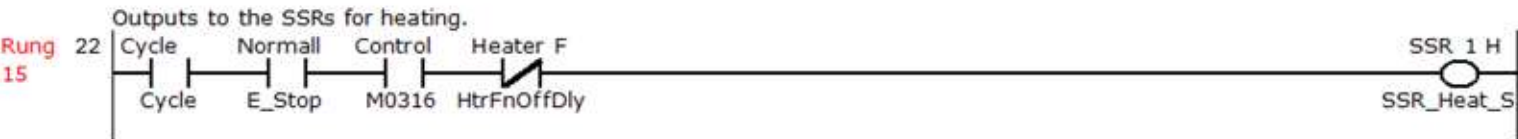
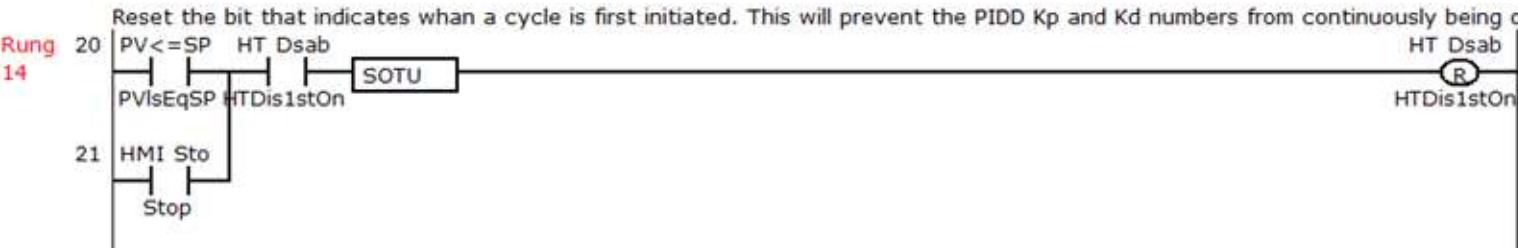
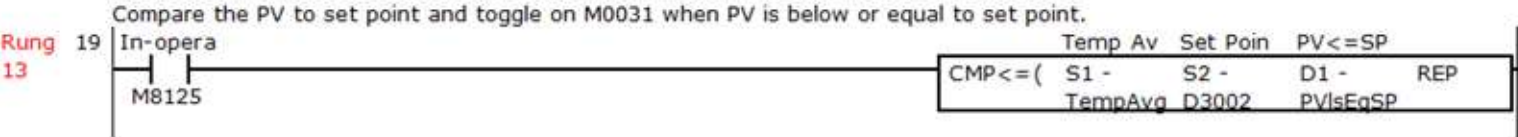
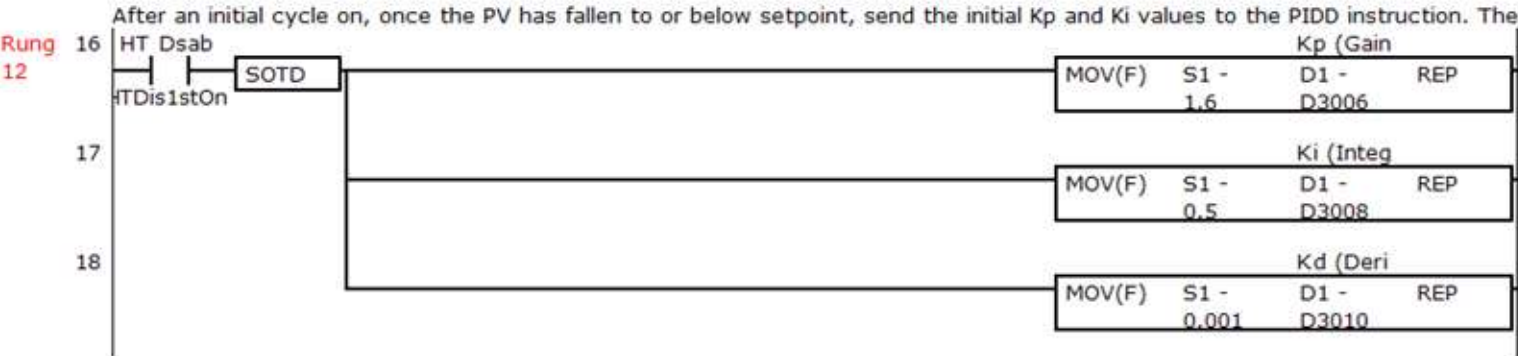
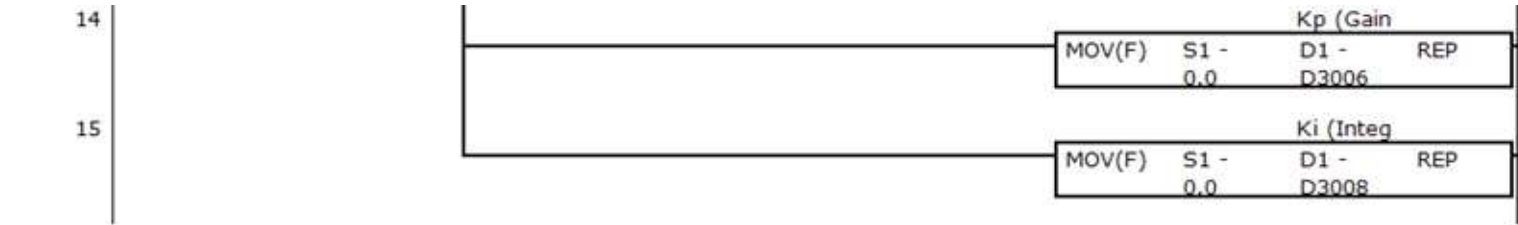
Script 3 looks at cut in and cut out % for floor heating and engages Humidity.

Script 4 looks at average of the RTDs in the chamber. It sets and restes the cooling call bit. It also looks at when to cut in and ci

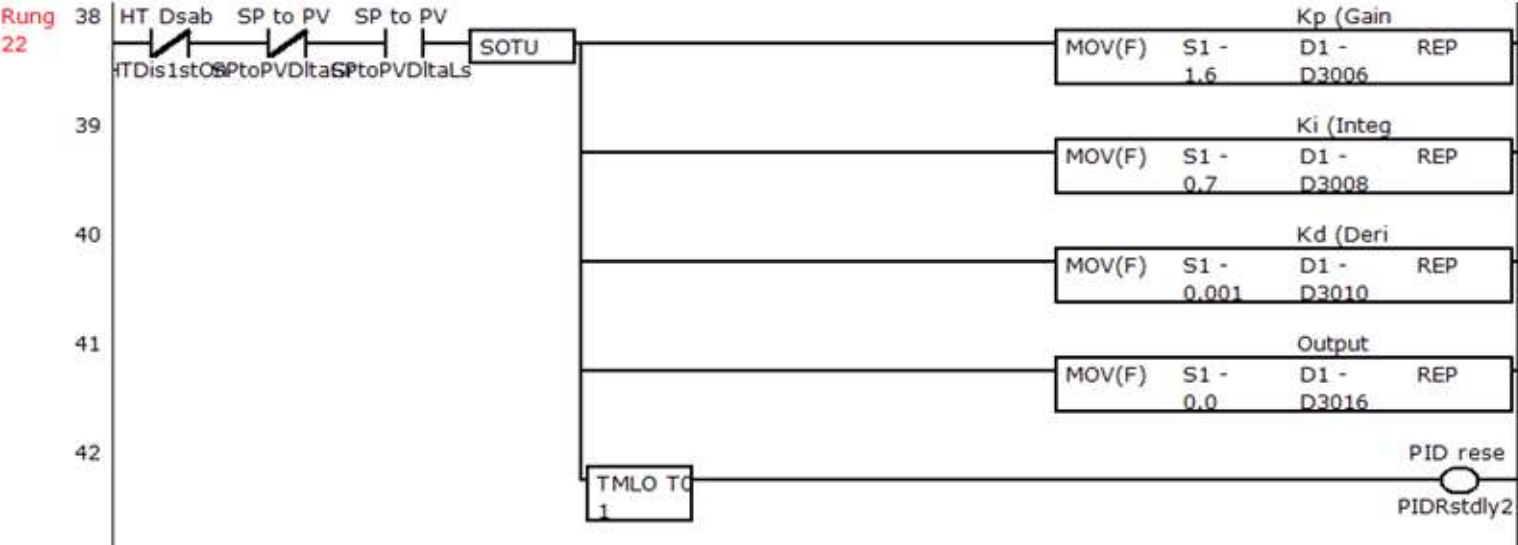
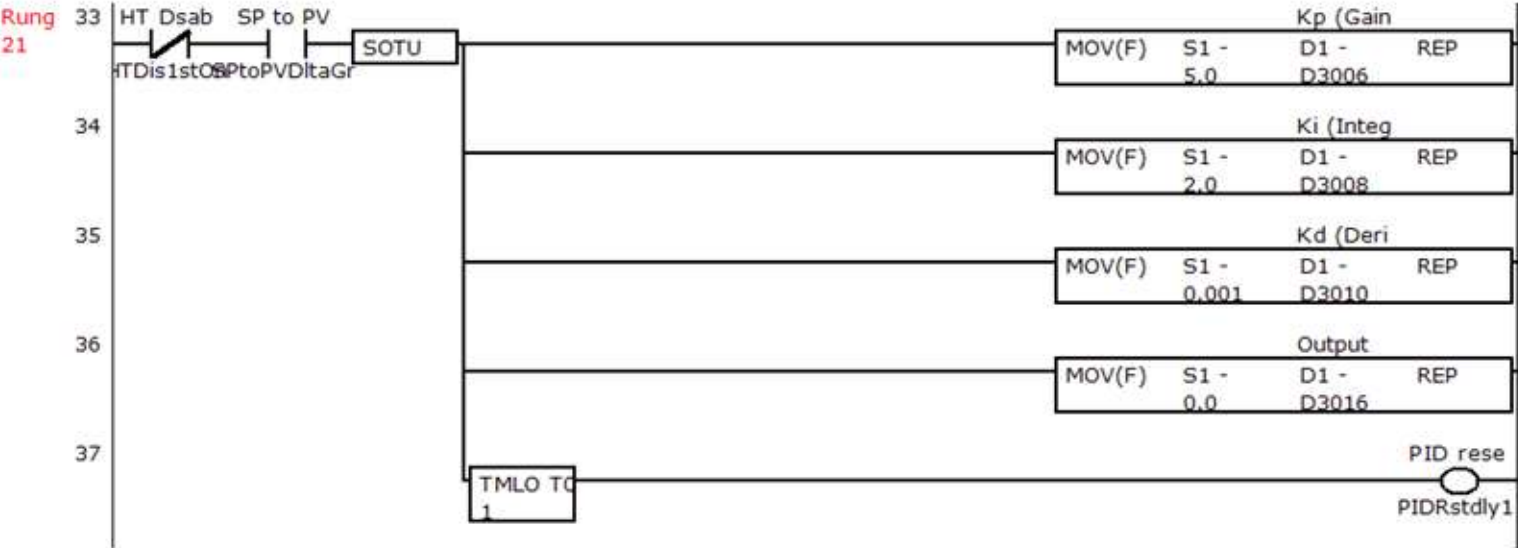
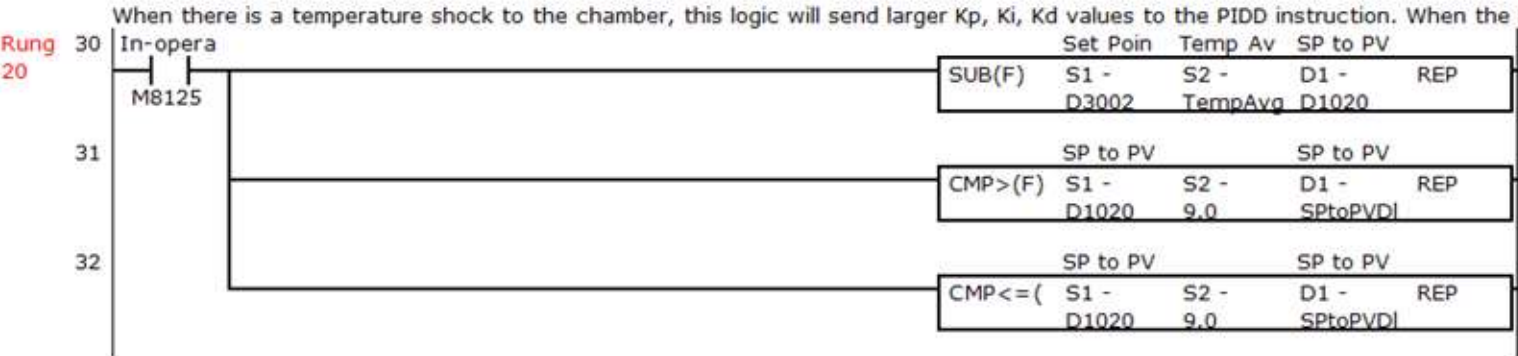




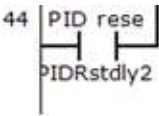






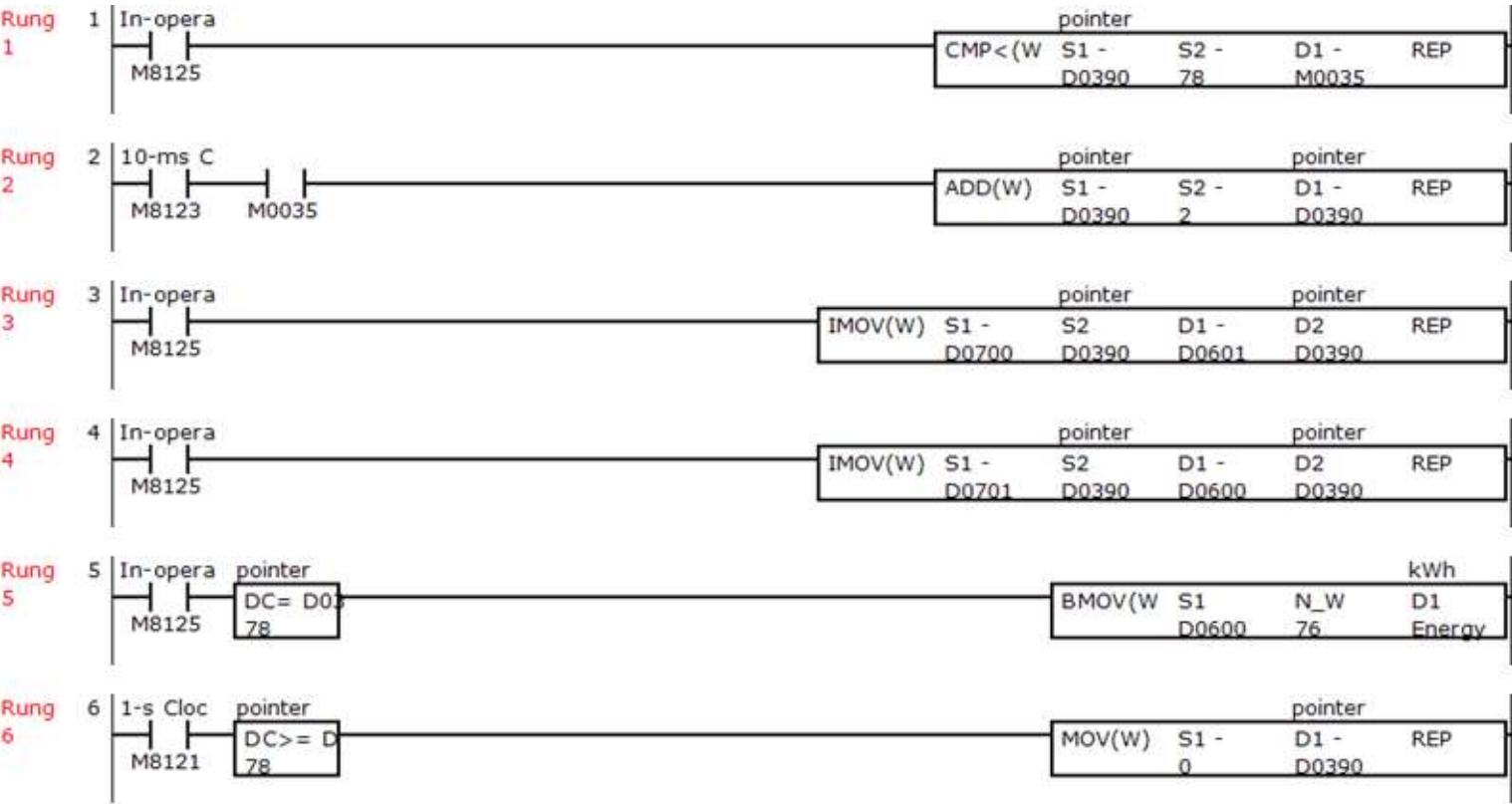


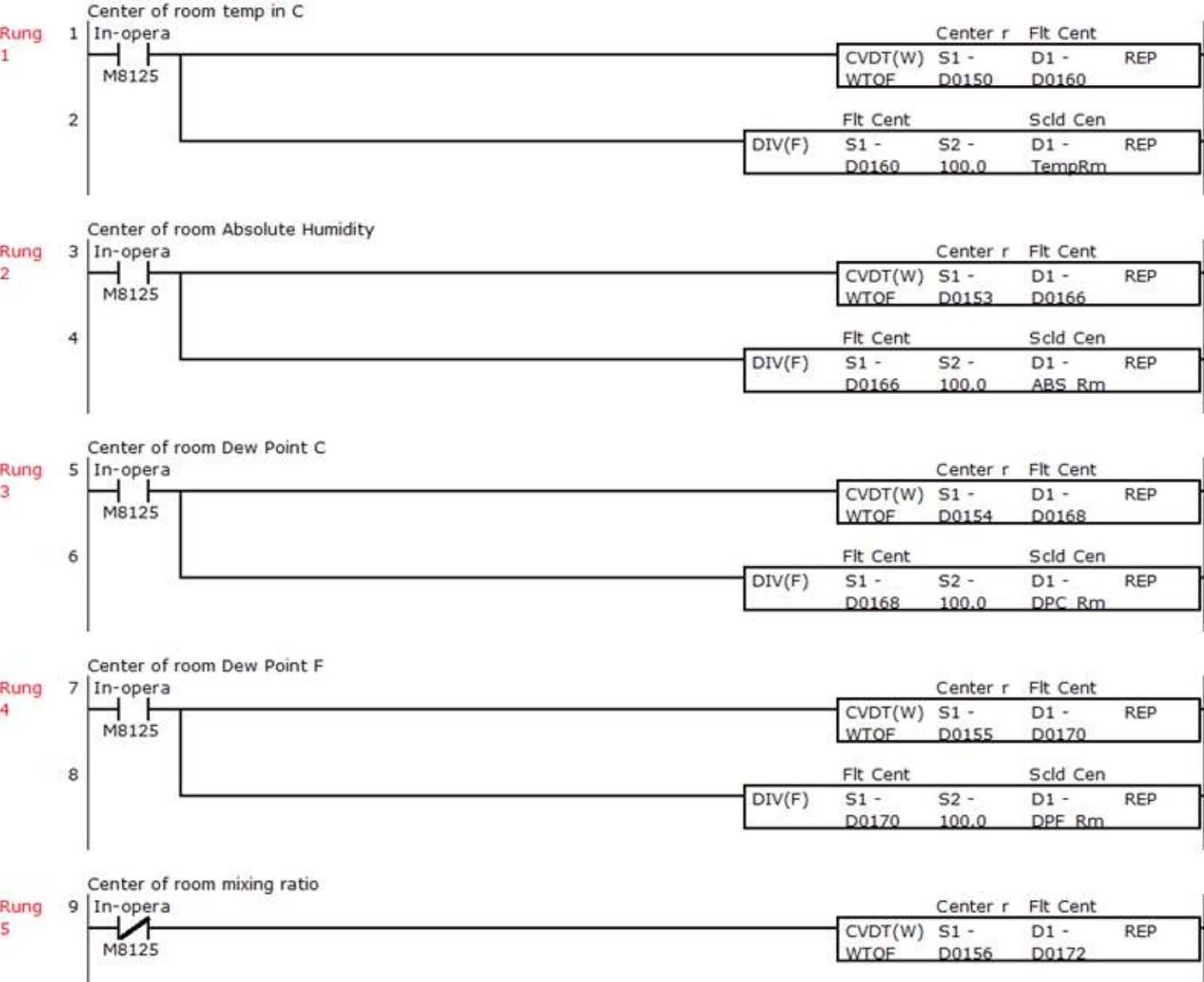
0 Heat

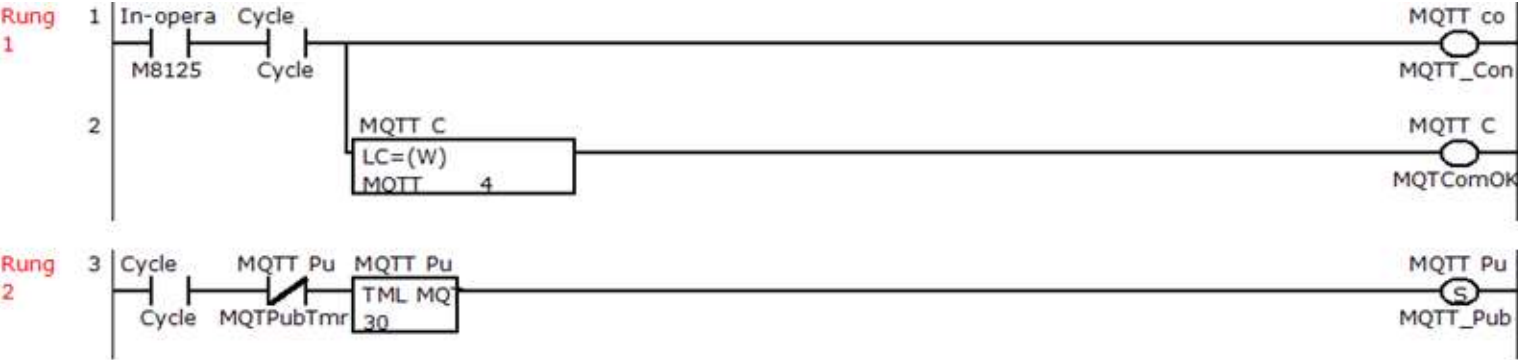


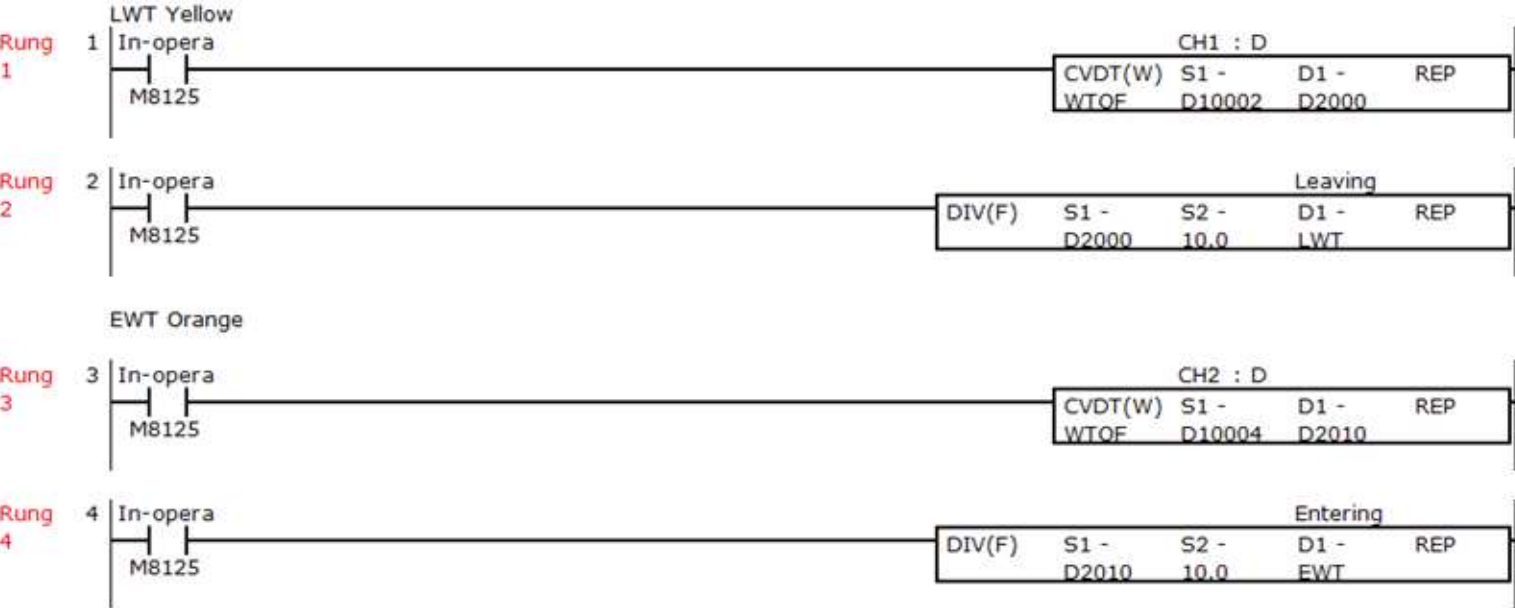




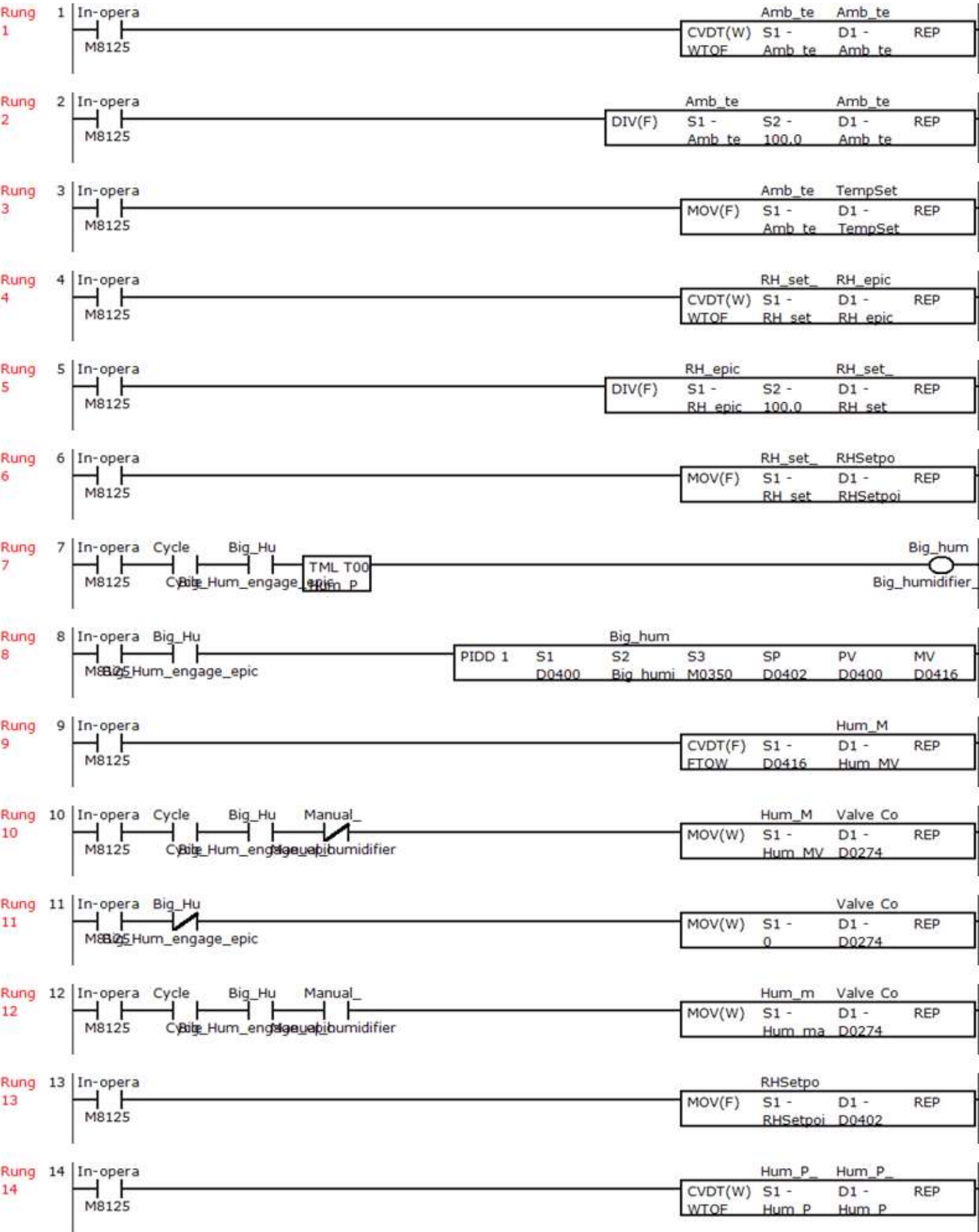


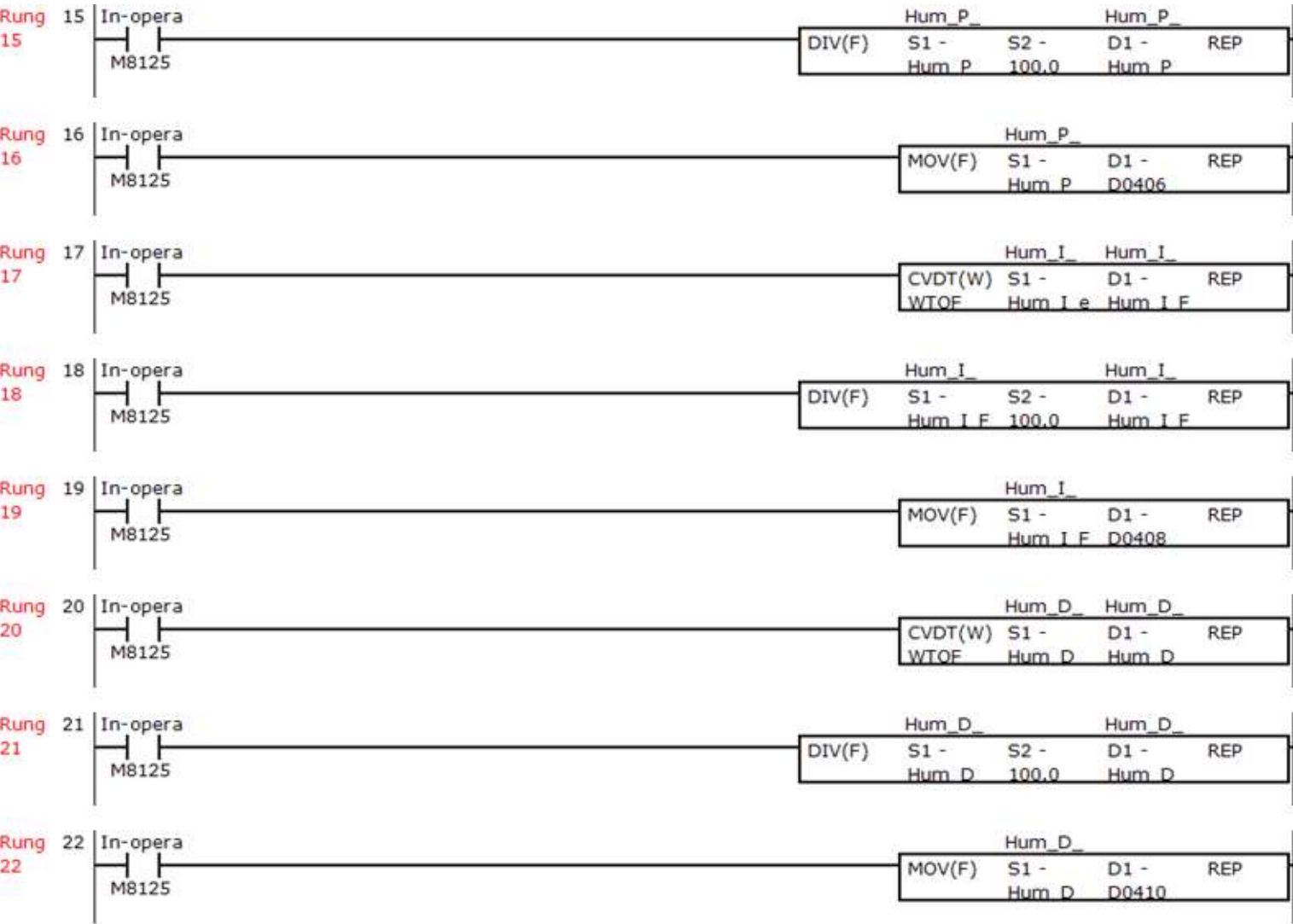






6 Epic logics



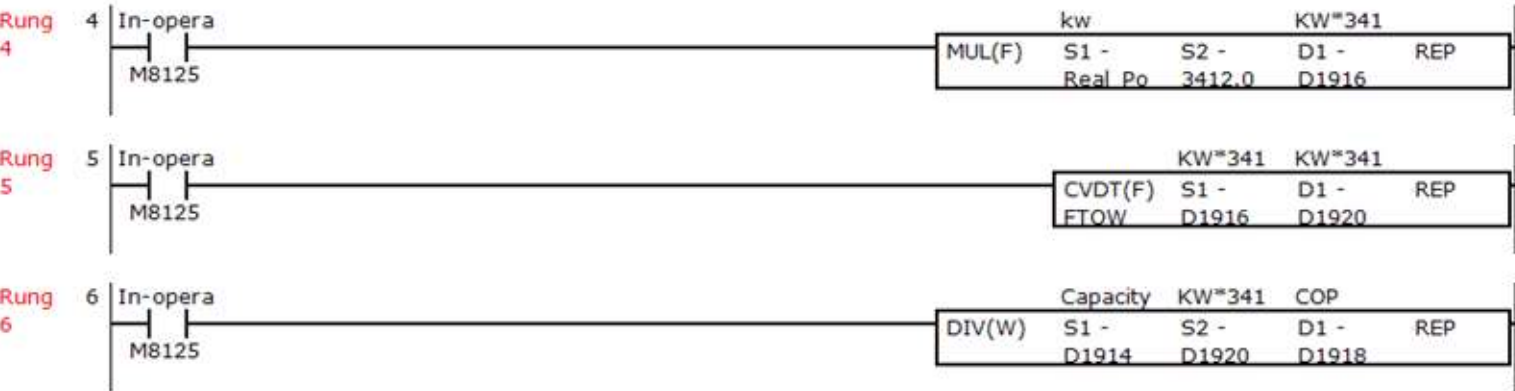




Capacity calculation



COP calculation



## Function Area Settings

Function Area Settings	
Program Capacity	0
PLC Type	FC6A-D16XXCEE
[Run/Stop]	
Stop Input	UNUSED
Reset Input	UNUSED
Run/Stop Selection at Keep Data Error	Run
Run/Stop Selection at Power Up	Keep Run/Stop State at Power Down
Function Switch	
Run/Stop Control by Function Switch	Enable
M8000 is turned on when function switch is changed from "0" to "1"	Enable
[Keep]	
Internal Relay 'Keep' Designation (M0000 to M7997)	All Keep
Internal Relay 'Keep' Designation (M10000 to M21247)	All Keep
Shift Register 'Keep' Designation	All Clear
Counter 'Clear' Designation	All Keep
Data Register 'Clear' Designation (D0000 to D7999)	All Keep
Data Register 'Clear' Designation (D10000 to D61999)	All Keep
[Special Input]	
Group 1 (I0, I2):	
Normal Input	
Group 2 (I1):	
Normal Input	
Group 3 (I3):	
Normal Input	
Group 4 (I4):	
Normal Input	
Group 5 (I5, I6):	
Normal Input	
Group 6 (I7):	
Normal Input	
Timer Interrupt (ms)	UNUSED
[Analog Input]	
AI0	
Filter	10
Signal Type	Analog Volume
Data Format	Binary data
Min	0
Max	1000
AI1	
Filter	10
Signal Type	0 to 10V DC
Data Format	Binary data
Min	0
Max	4000
[Communication]	
Port 1	
Maintenance Protocol	
Baud Rate (bps)	9600
Data Bits	7

Parity	Even
Stop Bits	1
Receive Timeout (10ms)	50
Slave Number	0
Interface	
Port 2	
Maintenance Protocol	
Baud Rate (bps)	115200
Data Bits	7
Parity	Even
Stop Bits	1
Receive Timeout (10ms)	50
Slave Number	0
Interface	
Port 3	
Maintenance Protocol	
Baud Rate (bps)	115200
Data Bits	7
Parity	Even
Stop Bits	1
Receive Timeout (10ms)	50
Slave Number	0
Interface	
Port 4	
Modbus RTU Master	
Error Status Update	-
Baud Rate (bps)	9600
Parity	Even
Stop Bits	1
Retry Cycle	1
Receive Timeout (10ms)	50
Transmission Wait Time (ms)	0
Enable setting by Data Register	Disabled
Number of Requests	4
Req. No.1	
Function Code	16
Master Device Address	D0000
Data Size	2
Slave No.	1
Modbus Slave Address	408193
Request Execution Device	Unused
Error Status	Unused
Req. No.2	
Function Code	0
Master Device Address	Unused
Data Size	Unused
Slave No.	Unused
Modbus Slave Address	Unused
Request Execution Device	Unused
Error Status	Unused
Req. No.3	
Function Code	0

Master Device Address	Unused
Data Size	Unused
Slave No.	Unused
Modbus Slave Address	Unused
Request Execution Device	Unused
Error Status	Unused
Req. No.4	
Function Code	0
Master Device Address	Unused
Data Size	Unused
Slave No.	Unused
Modbus Slave Address	Unused
Request Execution Device	Unused
Error Status	Unused
Interface	RS485
Port 5	
Modbus RTU Master	
Error Status Update	At error only
Baud Rate (bps)	19200
Parity	Even
Stop Bits	1
Retry Cycle	1
Receive Timeout (10ms)	50
Transmission Wait Time (ms)	0
Enable setting by Data Register	Disabled
Number of Requests	2
Req. No.1	
Function Code	3
Master Device Address	D0114
Data Size	34
Slave No.	2
Modbus Slave Address	400001
Request Execution Device	Unused
Error Status	D0090
Req. No.2	
Function Code	4
Master Device Address	D0100
Data Size	12
Slave No.	2
Modbus Slave Address	300001
Request Execution Device	Unused
Error Status	D0091
Interface	RS485
Port 6	UNUSED
Port 7	UNUSED
Port 8	UNUSED
Port 9	UNUSED
Port 10	UNUSED
Port 11	UNUSED
Port 12	UNUSED
Port 13	UNUSED
Port 14	UNUSED

Port 15									UNUSED
Port 16									UNUSED
Port 17									UNUSED
Port 18									UNUSED
Port 19									UNUSED
Port 20									UNUSED
Port 21									UNUSED
Port 22									UNUSED
Port 23									UNUSED
Port 24									UNUSED
Port 25									UNUSED
Port 26									UNUSED
Port 27									UNUSED
Port 28									UNUSED
Port 29									UNUSED
Port 30									UNUSED
Port 31									UNUSED
Port 32									UNUSED
Port 33									UNUSED

[Others]

Input Filters									
	+0	+1	+2	+3	+4	+5	+6	+7	
I0000	03ms	03ms	03ms	03ms	03ms	03ms	03ms	03ms	
Protect User Program									
Read Protect									Unprotected
Write Protect									Unprotected
Security Mode									Compatibility mode
32-bit Data Storage Setting									From Lower Word
Watchdog Timer Settings									400 ms
CSV File Format									
Separating Character									Comma (,)
Decimal Symbol									Period (.)
Maximum File Size									5MB

[Calendar & Clock]

Specify Time Zone		Enable
Time Zone		UTC-5
Daylight Saving Time		Disable

[Remote Host List]

Number of Remote Hosts		7
Remote Host 1		10.10.10.50
Port		502
Remote Host 2		10.10.10.10
Port		502
Remote Host 3		10.10.10.50
Port		502
Remote Host 4		192.168.1.165
Port		503
Remote Host 5		10.10.10.63
Port		502
Remote Host 6		10.10.10.57
Port		502
Remote Host 7		10.10.10.86

Port	502
[Connection Settings]	
Connection 1	Modbus TCP Server
Local Host Port No.	502
Allow Access by IP Address	Disabled
Modbus TCP - Modbus RTU Gateway	Disabled
Connection 2	Modbus TCP Client
Error Status Update	-
Receive Timeout (ms)	10
Transmission Wait Time (ms)	0
Number of Requests	1
Req. No.1	
Function Code	3
Master Device Address	D0176
Data Size	4
Remote Host No.	6
Slave No.	1
Modbus Slave Address	400632
Request Execution Device	Unused
Online Status	
Error Status	Unused
Connection 3	Modbus TCP Client
Error Status Update	-
Receive Timeout (ms)	10
Transmission Wait Time (ms)	0
Number of Requests	4
Req. No.1	
Function Code	0
Master Device Address	Unused
Data Size	Unused
Remote Host No.	Unused
Slave No.	Unused
Modbus Slave Address	Unused
Request Execution Device	Unused
Online Status	
Error Status	Unused
Req. No.2	
Function Code	0
Master Device Address	Unused
Data Size	Unused
Remote Host No.	Unused
Slave No.	Unused
Modbus Slave Address	Unused
Request Execution Device	Unused
Online Status	
Error Status	Unused
Req. No.3	
Function Code	3
Master Device Address	D70101
Data Size	11
Remote Host No.	7
Slave No.	0

Modbus Slave Address	400001
Request Execution Device	Unused
Online Status	
Error Status	Unused
Req. No.4	
Function Code	16
Master Device Address	D70201
Data Size	11
Remote Host No.	7
Slave No.	0
Modbus Slave Address	400001
Request Execution Device	Unused
Online Status	
Error Status	Unused
Connection 4	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 5	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 6	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 7	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 8	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 9	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	0.0.0.0
Pass-Through over Modbus RTU	Disabled
Connection 10	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 11	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000



Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 12	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 13	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 14	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 15	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
Connection 16	Maintenance Communication Server
Local Host Port No.	2101
Receive Timeout (ms)	2000
Allow Access by IP Address	Disabled
Pass-Through over Modbus RTU	Disabled
[Network Management]	
Acquire the current date and time from an SNTP server	Enabled
IP Address	
Host Name	time.google.com
SNTP Server Port	123
Time Zone	UTC-5
Automatic Acquisition	Enabled
Cycle	Every Hour
Power On	Enabled
Ping Timeout	100 msec
[Ethernet Port 1]	
Network Settings	
IP Address	DHCP
Subnet Mask	DHCP
Default Gateway	DHCP
Preferred DNS Server	DHCP
Alternate DNS Server	DHCP
Enable D8303 (IP Settings / DNS Settings switching)	Disabled
Network Management	
Acquire the current date and time from an SNTP server	Enabled
IP Address	
Host Name	time.google.com
SNTP Server Port	123
Time Zone	UTC-5
Automatic Acquisition	Enabled

Ping Timeout	100 msec
E-mail Settings	
General Settings	
SMTP Server	
SMTP Server Port	25
Sender e-mail Address	
Sender Name	
Use secure connection (SSL/TLS)	Disabled
Optional Settings	
Authentication is required to send e-mail	Disabled
Use data registers to configure E-mail settings	Disabled
Text Encoding	
Character Set	Unicode (UTF-8)
Text Encode Type	Base 64
Decimal Symbol	Period (.)
Separating Character	Comma (,)
Web Server	
Web Server Settings	Enabled
Web Server Port	80
Allow only secure connection (SSL/TLS) to connect	Disabled
User Settings	
Access to Web Server	Use single user account
User Name	administrator
Password	*****
User Web Page	
Data register monitoring	Enabled
Monitoring interval (ms)	1000 ms
Trend monitor interval	3 ms
Options	
Require user name and password before CGI program is executed	Disabled
Redirect Target	System Web Top Page
Use System Web Page	Enabled
Language	English
Use Web Page Editor	Enabled
FTP Client Settings	
Enable FTP Client	Enabled
No.1	
Source	
Destination	
Files to transfer	
No.2	
Source	
Destination	
Files to transfer	
No.3	
Source	
Destination	
Files to transfer	
No.4	
Source	
Destination	
Files to transfer	

No.5	Source	
	Destination	
	Files to transfer	
No.6	Source	
	Destination	
	Files to transfer	
No.7	Source	
	Destination	
	Files to transfer	
No.8	Source	
	Destination	
	Files to transfer	
No.9	Source	
	Destination	
	Files to transfer	
No.10	Source	
	Destination	
	Files to transfer	
No.11	Source	
	Destination	
	Files to transfer	
No.12	Source	
	Destination	
	Files to transfer	
No.13	Source	
	Destination	
	Files to transfer	
No.14	Source	
	Destination	
	Files to transfer	
No.15	Source	
	Destination	
	Files to transfer	
No.16	Source	
	Destination	
	Files to transfer	
FTP Server Settings		
Enable FTP Server		Enabled
Timeout (min)		15
Allow only secure connection (SSL/TLS) to connect		Disabled

BACnet/IP Settings	Disabled
MQTT Settings	Enabled
Connect to	General purpose MQTT Broker
MQTT Settings	
Specify with SD memory card	Disabled
Host Name	demo.thingsboard.io
Port Number	1883
Keep Alive	60
Client ID	Fixed value
Fixed value	d4ca09f0-c403-11ed-b62c-7d8052ad39cf
Authentication is required to connect to Broker	Enabled
Account Name	Admin
Password	****
Use secure connection (SSL/TLS)	Disabled
Connection Control	M7000
Connection Status	D7000
Publish	
#1	
Topic	NyleWater/Bldg1/TestChamber
Payload	
ID 1	1
Name	(root)
Format	Object
Data Type	
Data	
ID 2	2
Name	Temp F1
Format	Value
Data Type	Float (F)
Data	D0022
ID 3	3
Name	RH1
Format	Value
Data Type	Float (F)
Data	D0024
ID 4	4
Name	TempF2
Format	Value
Data Type	Float (F)
Data	D0042
ID 5	5
Name	RH2
Format	Value
Data Type	Float (F)
Data	D0044
ID 6	6
Name	TempF3
Format	Value
Data Type	Float (F)
Data	D0062
ID 7	7
Name	RH3

	Format	Value
	Data Type	Float (F)
	Data	D0064
ID 8		8
	Name	TempF4
	Format	Value
	Data Type	Float (F)
	Data	D0082
ID 9		9
	Name	RH4
	Format	Value
	Data Type	Float (F)
	Data	D0084
ID 10		10
	Name	TempRm
	Format	Value
	Data Type	Float (F)
	Data	D0176
ID 11		11
	Name	RHRoom
	Format	Value
	Data Type	Float (F)
	Data	D0178
ID 12		12
	Name	TempAverage
	Format	Value
	Data Type	Float (F)
	Data	D0200
ID 13		13
	Name	RHAverage
	Format	Value
	Data Type	Float (F)
	Data	D0258
ID 14		14
	Name	EnergyDelivered
	Format	Value
	Data Type	Float (F)
	Data	D0300
ID 15		15
	Name	EneregyReceived
	Format	Value
	Data Type	Float (F)
	Data	D0302
ID 16		16
	Name	ReactiveDelivered
	Format	Value
	Data Type	Float (F)
	Data	D0304
ID 17		17
	Name	ReactiveReceived
	Format	Value
	Data Type	Float (F)

	Data	D0306
ID 18	18	
	Name	RealPwr
	Format	Value
	Data Type	Float (F)
	Data	D0308
ID 19	19	
	Name	ReactivePwr
	Format	Value
	Data Type	Float (F)
	Data	D0310
ID 20	20	
	Name	ApparentPwr
	Format	Value
	Data Type	Float (F)
	Data	D0312
ID 21	21	
	Name	PWRFactor
	Format	Value
	Data Type	Float (F)
	Data	D0314
ID 22	22	
	Name	Current Total
	Format	Value
	Data Type	Float (F)
	Data	D0316
ID 23	23	
	Name	CurrentAvg
	Format	Value
	Data Type	Float (F)
	Data	D0318
ID 24	24	
	Name	VoltageLtoN
	Format	Value
	Data Type	Float (F)
	Data	D0320
ID 25	25	
	Name	VoltageLine
	Format	Value
	Data Type	Float (F)
	Data	D0322
ID 26	26	
	Name	Frequency
	Format	Value
	Data Type	Float (F)
	Data	D0324
ID 27	27	
	Name	Temp Set point
	Format	Value
	Data Type	Float (F)
	Data	D0202
ID 28	28	

Name	RHSetPoint
Format	Value
Data Type	Float (F)
Data	D0204
ID 29	29
Name	EvapTemp
Format	Value
Data Type	Float (F)
Data	D0266
ID 30	30
Name	DUT_EWT
Format	Value
Data Type	Float (F)
Data	D0190
Operation Mode	Trigger Execution
Publish Control	M7001
Publish Status	D7002
QoS	0
Retain	Disabled
Save MQTT packets that failed to publish to the SD memory card and resubscribe	Disabled
Device & Tag Settings	
Use Alias	Enabled
[Ethernet Port 2]	
Network Settings	
IP Address	192.168.1.60
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Preferred DNS Server	192.168.1.1
Alternate DNS Server	0.0.0.0
Enable D8630 (IP Settings / DNS Settings switching)	Disabled
Network Management	
Ping Timeout	100 msec
EtherNet/IP Settings	Disabled
[Access Control]	
Enable access control for App	Enabled
[Module Configuration]	
Configuration validation of expansion modules	Simple



## Cross Reference

Device Address:D0000 Tag Name:Blower\_control

Comment: Blower\_control

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						

Device Address:D0001 Tag Name:Blower\_Speed

Comment: Blower\_Speed

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						

Device Address:D0002 Tag Name:Amb\_temp\_set\_epicX10

Comment: Amb\_temp\_set\_epicX10

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	1	1	CVDT	S1	Word	-

Device Address:D0003 Tag Name:RH\_set\_epicX10

Comment: RH\_set\_epicX10

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	4	4	CVDT	S1	Word	-

Device Address:D0004 Tag Name:Amb\_temp\_epic\_X10\_F

Comment: Amb\_temp\_epic\_X10\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	1	1	CVDT	D1	Float	-
6 Epic logics	2	2	DIV	S1	Float	-

Device Address:D0006 Tag Name:RH\_epic\_X10\_F

Comment: RH\_epic\_X10\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	4	4	CVDT	D1	Float	-
6 Epic logics	5	5	DIV	S1	Float	-

Device Address:D0008 Tag Name:Amb\_temp\_set\_epic\_F

Comment: Amb\_temp\_set\_epic\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	2	2	DIV	D1(Quotient)	Float	-
6 Epic logics	3	3	MOV	S1	Float	-

Device Address:D0009

Comment: Amb\_temp\_set\_epic\_F\_up

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	2	2	DIV	D1(Quotient)	Float	-
6 Epic logics	3	3	MOV	S1	Float	-

Device Address:D0010 Tag Name:RH\_set\_epic\_F

Comment: RH\_set\_epic\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	5	5	DIV	D1(Quotient)	Float	-
6 Epic logics	6	6	MOV	S1	Float	-

Device Address:D0011

Comment: RH\_set\_epic\_F\_up

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	5	5	DIV	D1 (Quotient)	Float	-
6 Epic logics	6	6	MOV	S1	Float	-

Device Address:D0012 Tag Name:Hum\_manual\_override

Comment: Hum\_manual\_override

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	12	12	MOV	S1	Word	-

Device Address:D0022 Tag Name:TempF1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
MQTT Settings						

Device Address:D0023 Tag Name:TempF1\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
MQTT Settings						

Device Address:D0024 Tag Name:RH1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
MQTT Settings						

Device Address:D0025 Tag Name:RH1\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
MQTT Settings						

Device Address:D0026 Tag Name:ABS\_H1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0027 Tag Name:ABS\_H1\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0030 Tag Name:DPF1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0031 Tag Name:DPF1\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0042 Tag Name:TempF2

Program	Rung	Line	Symbol	Device	Data Type	Repeat
MQTT Settings						

Device Address:D0043 Tag Name:TempF2\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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## MQTT Settings

Device Address:D0044	Tag Name:RH2					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

## MQTT Settings

Device Address:D0045	Tag Name:RH2_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

## MQTT Settings

Device Address:D0046	Tag Name:ABS_H2					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0047	Tag Name:ABS_H2_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0050	Tag Name:DPF2					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0051	Tag Name:DPF2_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0062	Tag Name:TempF3					
Program	Rung	Line	Symbol	Device	Data Type	Repeat

## MQTT Settings

Device Address:D0063	Tag Name:TempF3_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat

## MQTT Settings

Device Address:D0064	Tag Name:RH3					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

## MQTT Settings

Device Address:D0065	Tag Name:RH3_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

## MQTT Settings

Device Address:D0068	Tag Name:DPC3					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Device Address:D0069	Tag Name:DPC3_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat

1 Log	1	1	DLOG	-	Float	1
Device Address:D0070 Tag Name:DPF3						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
Device Address:D0071 Tag Name:DPF3_ub						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
Device Address:D0082 Tag Name:TempF4						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
MQTT Settings						
Device Address:D0083 Tag Name:TempF4_ub						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
MQTT Settings						
Device Address:D0084 Tag Name:RH4						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
MQTT Settings						
Device Address:D0085 Tag Name:RH4_ub						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
MQTT Settings						
Device Address:D0086 Tag Name:ABS_H4						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
Device Address:D0087 Tag Name:ABS_H4_ub						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
Device Address:D0090 Tag Name:DPF4						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
Modbus RTU Master						
Device Address:D0091 Tag Name:DPF4_ub						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
Modbus RTU Master						
Device Address:D0094 Tag Name:FloorTC						
Comment: Floor Heat Float						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
Script - 2						
Script - 2						

Script - 2

Device Address:D0095 Tag Name:FloorTC\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Script - 2

Script - 2

Script - 2

Device Address:D0100 Tag Name:K2\_SUP1\_In

Comment: Kelvin2 : Superheat1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

Modbus RTU Master

Device Address:D0101 Tag Name:K2\_SLP1\_In

Comment: Kelvin2 : SLP1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

Modbus RTU Master

Device Address:D0102 Tag Name:K2\_ET1\_In

Comment: Kelvin2 : Evap Temp 1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

Modbus RTU Master

Device Address:D0103 Tag Name:K2\_SAT1\_In

Comment: Kelvin2 : Sat Temp 1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

Modbus RTU Master

Device Address:D0104 Tag Name:K2\_RT1\_In

Comment: Kelvin2 : UNUSED

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Modbus RTU Master

Device Address:D0105 Tag Name:K2\_ValvePos1\_In

Comment: Kelvin2 : Valve Position 1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

Modbus RTU Master

Device Address:D0106 Tag Name:K2\_AUX1a\_In

Comment: Kelvin2 : UNUSED

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Modbus RTU Master

Device Address:D0107 Tag Name:K2\_RLY1

Comment: Kelvin2 : UNUSED

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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# Modbus RTU Master

Device Address:D0108 Tag Name:K2\_Alarm1

Comment: Kelvin2 : Alarm1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

## Modbus RTU Master

Device Address:D0109 Tag Name:K2\_System1

Comment: Kelvin2 : System1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

## Modbus RTU Master

Device Address:D0110 Tag Name:K2\_Firmware1

Comment: Kelvin2 : Firmware Version 1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

## Modbus RTU Master

Device Address:D0111 Tag Name:K2\_AUX1b\_In

Comment: Kelvin2 : SLT1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

## Modbus RTU Master

Device Address:D0112 Tag Name:K2\_SLP2\_In

Comment: Kelvin2 : SLP2

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

Device Address:D0113 Tag Name:K2\_ET2\_In

Comment: Kelvin2 : Evap Temp 2

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

Device Address:D0114 Tag Name:K2Read\_SUP

Comment: Read Kelvin2a : Superheat Setpoint

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

## Modbus RTU Master

Device Address:D0115 Tag Name:K2Read\_REFT

Comment: Read Kelvin2a : Refrigtype

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

## Modbus RTU Master

Device Address:D0116 Tag Name:K2Read\_DOnRLY

Comment: Read Kelvin2a : Delay On Relay

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1

## Modbus RTU Master

Device Address:D0117 Tag Name:K2Read\_DOffRLY

Comment: Read Kelvin2a : Delay Off Relay					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0118 Tag Name:K2Read_DSteps					
Comment: Read Kelvin2a : Delay Steps					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0119 Tag Name:K2Read_LowSLP					
Comment: Read Kelvin2a : Low SLP Cutout					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0120 Tag Name:K2Read_HighSLP					
Comment: Read Kelvin2a : High SLP Cutout					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0121 Tag Name:K2Read_TempCutIn					
Comment: Read Kelvin2a : Temp CutIn					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0122 Tag Name:K2Read_TempCutOut					
Comment: Read Kelvin2a : Temp CutOut					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0123 Tag Name:K2Read_EEVMax					
Comment: Read Kelvin2a : EEV Max Postion					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0124 Tag Name:K2Read_SMMode					
Comment: Read Kelvin2a : SupermarketMode					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0125 Tag Name:K2Read_P					
Comment: Read Kelvin2a : P					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0126 Tag Name:K2Read_I					
Comment: Read Kelvin2a : I					
Program	Rung	Line	Symbol	Device	Data Type Repeat
Modbus RTU Master					
Device Address:D0127 Tag Name:K2Read_D					
Comment: Read Kelvin2a : D					
Program	Rung	Line	Symbol	Device	Data Type Repeat



# Modbus RTU Master

Device Address:D0128 Tag Name:K2Read\_EEVType

Comment: Read Kelvin2a : EEV Step Count

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0129 Tag Name:K2Read\_ManPos

Comment: Read Kelvin2a : Manual Position Setpoint

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0130 Tag Name:K2Read\_ModAddr

Comment: Read Kelvin2a : Modbus Address

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0131 Tag Name:K2Read\_PSIUnit

Comment: Read Kelvin2a : Pressure Units

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0132 Tag Name:K2Read\_TempUnit

Comment: Read Kelvin2a : Temp Units

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0133 Tag Name:K2Read\_PSIType

Comment: Read Kelvin2a : Pressure Sensor Type

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0134 Tag Name:K2Read\_PCOffset

Comment: Read Kelvin2a : Pressure Offset

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0135 Tag Name:K2Read\_ET1Offset

Comment: Read Kelvin2a : Evap1 Temp Offset

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0136 Tag Name:K2Read\_RoomOffset

Comment: Read Kelvin2a : Room Temp Offset

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0137 Tag Name:K2Read\_AUX1aOffset

Comment: Read Kelvin2a : Aux 1 Offset

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Device Address:D0138    Tag Name:K2Read_PSIRange						
Comment: Read Kelvin2a : Pressure Range						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0139    Tag Name:K2Read_BPPercent						
Comment: Read Kelvin2a : Bleed Port Percentage						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0140    Tag Name:K2Read_BPDelay						
Comment: Read Kelvin2a : Bleed Port Delay Time						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0141    Tag Name:K2Read_CDA						
Comment: Read Kelvin2a : Controller Display Address						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0142    Tag Name:K2Read_TempType						
Comment: Read Kelvin2a : Temp Probe Type						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0143    Tag Name:K2Read_AUX1bOffset						
Comment: Read Kelvin2a : Aux 2 Offset						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0144    Tag Name:K2Read_SHDeadband						
Comment: Read Kelvin2a : Superheat Deadband						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0145    Tag Name:K2Read_MinRLYOn						
Comment: Read Kelvin2a : Minimum RLY On Time						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0146						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0147						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Modbus RTU Master						
Device Address:D0150						
Comment: Center room temp Raw C						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	1	1	CVDT	S1	Word	-

Device Address:D0153

Comment: Center room Abs Humid Raw percent

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	2	3	CVDT	S1	Word	-

Device Address:D0154

Comment: Center room Dew Pt C

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	3	5	CVDT	S1	Word	-

Device Address:D0155

Comment: Center room Dew Pt F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	4	7	CVDT	S1	Word	-

Device Address:D0156

Comment: Center room mixing ratio

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	5	9	CVDT	S1	Word	-

Device Address:D0160

Comment: Flt Center room temp C

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	1	1	CVDT	D1	Float	-
3 Remote RTD	1	2	DIV	S1	Float	-

Device Address:D0166

Comment: Flt Center Room Abs Humidity

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	2	3	CVDT	D1	Float	-
3 Remote RTD	2	4	DIV	S1	Float	-

Device Address:D0168

Comment: Flt Center Room Dew Pt C

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	3	5	CVDT	D1	Float	-
3 Remote RTD	3	6	DIV	S1	Float	-

Device Address:D0170

Comment: Flt Center Room Dew Pt F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	4	7	CVDT	D1	Float	-
3 Remote RTD	4	8	DIV	S1	Float	-

Device Address:D0172

Comment: Flt Center Room Mixing

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	5	9	CVDT	D1	Float	-

Device Address:D0174 Tag Name:TempRm\_C

Comment: Scld Center Room Temp C

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	1	2	DIV	D1 (Quotient)	Float	-

Device Address:D0176 Tag Name:TempRm\_F

Comment: Scld Center Room Temp F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Connection Settings

Script - 1

MQTT Settings

Device Address:D0177

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Connection Settings

Script - 1

MQTT Settings

Device Address:D0178 Tag Name:RH\_Rm

Comment: Scld Center Room RH

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Connection Settings

Script - 1

MQTT Settings

Device Address:D0179

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Connection Settings

Script - 1

MQTT Settings

Device Address:D0180 Tag Name:ABS\_Rm

Comment: Scld Center Room ABS Humidity

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

3 Remote RTD	2	4	DIV	D1 (Quotient)	Float	-
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Device Address:D0182 Tag Name:DPC\_Rm

Comment: Scld Center Room Dew PT C

Program	Rung	Line	Symbol	Device	Data Type	Repeat
3 Remote RTD	3	6	DIV	D1 (Quotient)	Float	-

Device Address:D0184 Tag Name:DPF\_Rm

Comment: Scld Center Room Dew PT F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

3 Remote RTD	4	8	DIV	D1 (Quotient)	Float	-
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Device Address:D0190 Tag Name:RmtTC01

Comment: Remote TC from PLC2

Program	Rung	Line	Symbol	Device	Data Type	Repeat
MQTT Settings						

Device Address:D0191

Program	Rung	Line	Symbol	Device	Data Type	Repeat
MQTT Settings						

Device Address:D0200 Tag Name:TempAvg

Comment: Temp Average

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	8	26	CMP>	S1	Float	-
0 Heat	5	7	PIDD	-	Float	-
0 Heat	8	10	CMP<	S1	Float	-
0 Heat	9	11	CMP<	S1	Float	-
0 Heat	10	12	CMP>	S1	Float	-
0 Heat	13	19	CMP<=	S1	Float	-
0 Heat	20	30	SUB	S2	Float	-
1 Log	1	1	DLOG	-	Float	1

Script - 1

Script - 4

Script - 4

MQTT Settings

Device Address:D0201 Tag Name:TempAvg1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	8	26	CMP>	S1	Float	-
0 Heat	5	7	PIDD	-	Float	-
0 Heat	8	10	CMP<	S1	Float	-
0 Heat	9	11	CMP<	S1	Float	-
0 Heat	10	12	CMP>	S1	Float	-
0 Heat	13	19	CMP<=	S1	Float	-
0 Heat	20	30	SUB	S2	Float	-
1 Log	1	1	DLOG	-	Float	1

Script - 1

Script - 4

Script - 4

MQTT Settings

Device Address:D0202 Tag Name:TempSetpoint

Comment: TempSetpoint

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	4	6	MOV	S1	Float	-
0 Heat	6	8	SUB	S1	Float	-
0 Heat	7	9	SUB	S1	Float	-
1 Log	1	1	DLOG	-	Float	1
6 Epic logics	3	3	MOV	D1	Float	-

Script - 4

Script - 4

MQTT Settings

Device Address:D0203 Tag Name:TempSetpoint\_ub

Comment: TempSetpoint\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	4	6	MOV	S1	Float	-
0 Heat	6	8	SUB	S1	Float	-
0 Heat	7	9	SUB	S1	Float	-
1 Log	1	1	DLOG	-	Float	1
6 Epic logics	3	3	MOV	D1	Float	-
Script - 4						
Script - 4						
MQTT Settings						

Device Address:D0204      Tag Name:RHSetpoint

Comment: RHSetpoint

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
6 Epic logics	6	6	MOV	D1	Float	-
6 Epic logics	13	13	MOV	S1	Float	-
Script - 3						
Script - 3						
MQTT Settings						

Device Address:D0205      Tag Name:RHSetpoint\_ub

Comment: RHSetpoint\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
6 Epic logics	6	6	MOV	D1	Float	-
6 Epic logics	13	13	MOV	S1	Float	-
Script - 3						
Script - 3						
MQTT Settings						

Device Address:D0250      Tag Name:FloorCutin

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 2						

Device Address:D0251      Tag Name:FloorCutin\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 2						

Device Address:D0252      Tag Name:FloorCutout

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 2						

Device Address:D0253      Tag Name:FloorCutout\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 2						

Device Address:D0254      Tag Name:CoolingDB

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 4						

Device Address:D0255      Tag Name:Coolingdb\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Script - 4

Device Address:D0256	Tag Name:RhDB					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 3						

Device Address:D0257	Tag Name:RHdb_up					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 3						

Device Address:D0258	Tag Name:RHAvg					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
6 Epic logics	8	8	PIDD	-	Float	-
Script - 1						
Script - 3						
Script - 3						
MQTT Settings						

Device Address:D0259	Tag Name:RHAvg_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
6 Epic logics	8	8	PIDD	-	Float	-
Script - 1						
Script - 3						
Script - 3						
MQTT Settings						

Device Address:D0260	Tag Name:DefrostCutin					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 4						

Device Address:D0261	Tag Name:DefrostCutin_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 4						

Device Address:D0262	Tag Name:DefrostCutout					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 4						

Device Address:D0263	Tag Name:DefrostCutout_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Script - 4						

Device Address:D0264	Tag Name:EvapTempRaw					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	24	CVDT	D1	Float	-
Script - 4						

Device Address:D0265	Tag Name:EvapTempRaw_ub					
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	24	CVDT	D1	Float	-

Script - 4

Device Address:D0266 Tag Name:EvapTemp

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Script - 4

Script - 4

Script - 4

MQTT Settings

Device Address:D0267 Tag Name:EvapTemp\_ub

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1

Script - 4

Script - 4

Script - 4

MQTT Settings

Device Address:D0270

Comment: CH0 : Data

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	24	CVDT	S1	Word	-

Analog Module Configuration

Device Address:D0271

Comment: CH0 : Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Analog Module Configuration

Device Address:D0272

Comment: CH1 : Data

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Analog Module Configuration

Device Address:D0273

Comment: CH1 : Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Analog Module Configuration

Device Address:D0274

Comment: Valve Control

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	10	10	MOV	D1	Word	-
6 Epic logics	11	11	MOV	D1	Word	-
6 Epic logics	12	12	MOV	D1	Word	-

Analog Module Configuration

Device Address:D0275

Comment: CH2 : Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Analog Module Configuration



Device Address:D0280 Tag Name:Hum\_PID\_init\_timer

Comment: Hum\_PID\_init\_timer

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	7	7	TML	Preset	Word	-

Device Address:D0282 Tag Name:Hum\_MV\_F

Comment: Hum\_MV\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	9	9	CVDT	D1	Word	-
6 Epic logics	10	10	MOV	S1	Word	-

Device Address:D0300 Tag Name:Energy\_Delivered

Comment: kWh

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1	Word	-

MQTT Settings

Device Address:D0301

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+1	Word	-

MQTT Settings

Device Address:D0302 Tag Name:Energy\_Received

Comment: kWh

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+2	Word	-

MQTT Settings

Device Address:D0303

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+3	Word	-

MQTT Settings

Device Address:D0304 Tag Name:Reactive\_Del

Comment: kVARh

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+4	Word	-

MQTT Settings

Device Address:D0305

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+5	Word	-

MQTT Settings

Device Address:D0306 Tag Name:Reactive\_Rec

Comment: kVARh

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+6	Word	-

MQTT Settings

Device Address:D0307

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+7	Word	-

MQTT Settings

Device Address:D0308 Tag Name:Real\_Power

Comment: kw

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+8	Word	-
7 COP and Capacitance Calculation	4	4	Float	-	-	-

MQTT Settings

Device Address:D0309

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+9	Word	-
7 COP and Capacitance Calculation	4	4	Float	-	-	-

MQTT Settings

Device Address:D0310 Tag Name:Reactive\_Power

Comment: kVAR

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+10	Word	-

MQTT Settings

Device Address:D0311

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+11	Word	-

MQTT Settings

Device Address:D0312 Tag Name:Apparent\_Power

Comment: kVA

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+12	Word	-

MQTT Settings

Device Address:D0313

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+13	Word	-

MQTT Settings

Device Address:D0314 Tag Name:Power\_Factor  
Comment: %PF

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+14	Word	-

MQTT Settings

Device Address:D0315

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+15	Word	-

MQTT Settings

Device Address:D0316 Tag Name:Current\_Total  
Comment: Amps

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+16	Word	-

MQTT Settings

Device Address:D0317

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+17	Word	-

MQTT Settings

Device Address:D0318 Tag Name:Current\_Avg  
Comment: Amps

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+18	Word	-

MQTT Settings

Device Address:D0319

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+19	Word	-

MQTT Settings

Device Address:D0320 Tag Name:Voltage\_Line\_N  
Comment: Volts Neutral

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+20	Word	-

MQTT Settings

Device Address:D0321

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+21	Word	-

MQTT Settings

Device Address:D0322 Tag Name:Voltage\_line  
Comment: Volts line-line

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+22	Word	-

MQTT Settings

Device Address:D0323

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+23	Word	-

MQTT Settings

Device Address:D0324 Tag Name:Frequency

Comment: Hz

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+24	Word	-

MQTT Settings

Device Address:D0325

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Float	1
2 Power	5	5	BMOV	D1+25	Word	-

MQTT Settings

Device Address:D0326 Tag Name:Phase\_angle

Comment: Degree

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+26	Word	-

Device Address:D0328 Tag Name:Real\_Power\_A

Comment: kW

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+28	Word	-

Device Address:D0330 Tag Name:Real\_Power\_B

Comment: kW

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+30	Word	-

Device Address:D0332 Tag Name:Real\_Power\_C

Comment: kW

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+32	Word	-

Device Address:D0334 Tag Name:Reactive\_Power\_A

Comment: kVAR Phase A

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+34	Word	-

Device Address:D0336 Tag Name:Reactive\_Power\_B

Comment: kVar Phae B

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+36	Word	-

Device Address:D0338 Tag Name:Reactive\_Power\_C

Comment: kVar Phase C

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+38	Word	-

Device Address:D0340 Tag Name:Apparent\_Power\_A

Comment: kVAR Phase A

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+40	Word	-

Device Address:D0342 Tag Name:Apparent\_Power\_B

Comment: kVAR Phase B

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+42	Word	-

Device Address:D0344 Tag Name:Apparent\_Power\_C

Comment: kVAR Phase C

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+44	Word	-

Device Address:D0346 Tag Name:Power\_Factor\_A

Comment: % PF

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+46	Word	-

Device Address:D0348 Tag Name:Power\_Factor\_B

Comment: %PF

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+48	Word	-

Device Address:D0350 Tag Name:Power\_Factor\_C

Comment: %PF

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+50	Word	-

Device Address:D0352 Tag Name:Current\_A

Comment: Amps

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+52	Word	-

Device Address:D0354 Tag Name:Current\_B

Comment: Amps

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+54	Word	-

Device Address:D0356 Tag Name:Current\_C

Comment: Amps

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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2 Power	5	5	BMOV	D1+56	Word	-
Device Address:D0358 Tag Name:Voltage_PhaseA_N						
Comment: line to neutral Volts-N						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+58	Word	-
Device Address:D0360 Tag Name:Voltage_PhaseB_N						
Comment: line to neutral Volts-N						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+60	Word	-
Device Address:D0362 Tag Name:Voltage_PhaseC_N						
Comment: line to neutral Volts-N						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+62	Word	-
Device Address:D0364 Tag Name:Voltage_Phase_A_B						
Comment: line to line Volts-L						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+64	Word	-
Device Address:D0366 Tag Name:Voltage_Phase_B_C						
Comment: line to line Volts-N						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+66	Word	-
Device Address:D0368 Tag Name:Voltage_Phase_C_A						
Comment: line to line Volts-L						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+68	Word	-
Device Address:D0370 Tag Name:Phase_Angle_A						
Comment: Degree						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+70	Word	-
Device Address:D0372 Tag Name:Phase_Angle_B						
Comment: Degree						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+72	Word	-
Device Address:D0374 Tag Name:Phase_Angle_C						
Comment: Degree						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	5	5	BMOV	D1+74	Word	-
Device Address:D0390						
Comment: pointer even						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	1	1	CMP<	S1	Word	-
2 Power	2	2	ADD	S1	Word	-

2 Power	2	2	ADD	D1	Word	-
2 Power	3	3	IMOV	S2	Word	-
2 Power	3	3	IMOV	D2	Word	-
2 Power	4	4	IMOV	S2	Word	-
2 Power	4	4	IMOV	D2	Word	-
2 Power	5	5	DC=	D	Word	-
2 Power	6	6	DC>=	D	Word	-
2 Power	6	6	MOV	D1	Word	-

Device Address:D0400

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	8	8	PIDD	S1	Float	-
6 Epic logics	8	8	PIDD	PV	Float	-

Device Address:D0402

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	8	8	PIDD	S1+2	Float	-
6 Epic logics	8	8	PIDD	SP	Float	-
6 Epic logics	13	13	MOV	D1	Float	-

Device Address:D0406

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	8	8	PIDD	S1+6	Float	-
6 Epic logics	16	16	MOV	D1	Float	-

Device Address:D0408

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	8	8	PIDD	S1+8	Float	-
6 Epic logics	19	19	MOV	D1	Float	-

Device Address:D0410

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	8	8	PIDD	S1+10	Float	-
6 Epic logics	22	22	MOV	D1	Float	-

Device Address:D0416

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	8	8	PIDD	S1+16	Float	-
6 Epic logics	8	8	PIDD	MV	Float	-
6 Epic logics	9	9	CVDT	S1	Float	-

Device Address:D0510 Tag Name:Hum\_P\_epicX100

Comment: Hum\_P\_epicX100

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	14	14	CVDT	S1	Word	-

Device Address:D0512 Tag Name:Hum\_I\_epicX100

Comment: Hum\_I\_epicX100

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	17	17	CVDT	S1	Word	-

Device Address:D0514 Tag Name:Hum\_D\_epicX100

Comment: Hum\_D\_epicX100

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	20	20	CVDT	S1	Word	-

Device Address:D0516 Tag Name:Hum\_P\_FX100

Comment: Hum\_P\_FX100

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	14	14	CVDT	D1	Float	-
6 Epic logics	15	15	DIV	S1	Float	-

Device Address:D0518 Tag Name:Hum\_I\_FX100

Comment: Hum\_I\_FX100

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	17	17	CVDT	D1	Float	-
6 Epic logics	18	18	DIV	S1	Float	-

Device Address:D0520 Tag Name:Hum\_D\_FX100

Comment: Hum\_D\_FX100

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	20	20	CVDT	D1	Float	-
6 Epic logics	21	21	DIV	S1	Float	-

Device Address:D0522 Tag Name:Hum\_P\_F

Comment: Hum\_P\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	15	15	DIV	D1 (Quotient)	Float	-
6 Epic logics	16	16	MOV	S1	Float	-

Device Address:D0524 Tag Name:Hum\_I\_F

Comment: Hum\_I\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	18	18	DIV	D1 (Quotient)	Float	-
6 Epic logics	19	19	MOV	S1	Float	-

Device Address:D0526 Tag Name:Hum\_D\_F

Comment: Hum\_D\_F

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	21	21	DIV	D1 (Quotient)	Float	-
6 Epic logics	22	22	MOV	S1	Float	-

Device Address:D0600

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	4	4	IMOV	D1	Address	-
2 Power	5	5	BMOV	S1	Word	-

Device Address:D0601

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	3	3	IMOV	D1	Address	-
2 Power	5	5	BMOV	S1+1	Word	-

Device Address:D0700

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	3	3	IMOV	S1	Address	-
Device Address:D0701						
2 Power	4	4	IMOV	S1	Address	-
Device Address:D0800 Tag Name:LWT_E360						
1 Log	1	1	DLOG	-	Word	1
7 COP and Capacitance Calculation	5	1	Word	-	-	-
Device Address:D0804 Tag Name:EWT_E360						
1 Log	1	1	DLOG	-	Word	1
7 COP and Capacitance Calculation	5	2	Word	-	-	-
Device Address:D1000						
1 Log	1	1	DLOG	D2	Word	-
Device Address:D1020						
Comment: SP to PV Delta						
0 Heat	20	30	SUB	D1	Float	-
0 Heat	20	31	CMP>	S1	Float	-
0 Heat	20	32	CMP<=	S1	Float	-
Device Address:D1910						
Comment: (LWT-EWT)						
7 COP and Capacitance Calculation	5	1	Word	-	-	-
7 COP and Capacitance Calculation	5	2	Word	-	-	-
Device Address:D1912						
Comment: (LWT - EWT)*500						
7 COP and Capacitance Calculation	5	2	Double	-	-	-
7 COP and Capacitance Calculation	5	3	Word	-	-	-
Device Address:D1914						
Comment: Capacity (BTU/hr)						
7 COP and Capacitance Calculation	5	3	Double	-	-	-
7 COP and Capacitance Calculation	5	6	Word	-	-	-
Device Address:D1916						
Comment: KW*3412						
7 COP and Capacitance Calculation	5	4	Float	-	-	-
7 COP and Capacitance Calculation	5	5	Float	-	-	-
Device Address:D1918						

Comment: COP

Program	Rung Line	Symbol	Device	Data Type	Repeat
7 COP and Capacity Allocation	61	Question	-	Word	

Device Address:D3003

Comment: Set Point (SP)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	4	6	MOV	D1	Float	-
0 Heat	5	7	PIDD	S1+3	Float	-
0 Heat	5	7	PIDD	SP	Float	-
0 Heat	10	12	CMP>	S2	Float	-
0 Heat	13	19	CMP<=	S2	Float	-
0 Heat	20	30	SUB	S1	Float	-

Device Address:D3004

Comment: Remote Set Point (RSP)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+4	Float	-

Device Address:D3005

Comment: Remote Set Point (RSP)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+5	Float	-

Device Address:D3006

Comment: Kp (Gain)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+6	Float	-
0 Heat	11	14	MOV	D1	Float	-
0 Heat	12	16	MOV	D1	Float	-
0 Heat	21	33	MOV	D1	Float	-
0 Heat	22	38	MOV	D1	Float	-

Device Address:D3007

Comment: Kp (Gain)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+7	Float	-
0 Heat	11	14	MOV	D1	Float	-
0 Heat	12	16	MOV	D1	Float	-
0 Heat	21	33	MOV	D1	Float	-
0 Heat	22	38	MOV	D1	Float	-

Device Address:D3008

Comment: Ki (Integral)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+8	Float	-
0 Heat	11	15	MOV	D1	Float	-
0 Heat	12	17	MOV	D1	Float	-
0 Heat	21	34	MOV	D1	Float	-
0 Heat	22	39	MOV	D1	Float	-

Device Address:D3009

Comment: Ki (Integral)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+9	Float	-

0 Heat	11	15	MOV	D1	Float	-
0 Heat	12	17	MOV	D1	Float	-
0 Heat	21	34	MOV	D1	Float	-
0 Heat	22	39	MOV	D1	Float	-

Device Address:D3010

Comment: Kd (Derivative)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+10	Float	-
0 Heat	12	18	MOV	D1	Float	-
0 Heat	21	35	MOV	D1	Float	-
0 Heat	22	40	MOV	D1	Float	-

Device Address:D3011

Comment: Kd (Derivative)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+11	Float	-
0 Heat	12	18	MOV	D1	Float	-
0 Heat	21	35	MOV	D1	Float	-
0 Heat	22	40	MOV	D1	Float	-

Device Address:D3012

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+12	Float	-

Device Address:D3013

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+13	Float	-

Device Address:D3014

Comment: Manual Output Manipulated Variable

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+14	Float	-

Device Address:D3015

Comment: Manual Output Manipulated Variable

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+15	Float	-

Device Address:D3016

Comment: Output Manipulated Variable (MV)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+16	Float	-
0 Heat	5	7	PIDD	MV	Float	-
0 Heat	11	13	MOV	D1	Float	-
0 Heat	21	36	MOV	D1	Float	-
0 Heat	22	41	MOV	D1	Float	-

Device Address:D3017

Comment: Output Manipulated Variable (MV)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+17	Float	-
0 Heat	5	7	PIDD	MV	Float	-
0 Heat	11	13	MOV	D1	Float	-
0 Heat	21	36	MOV	D1	Float	-
0 Heat	22	41	MOV	D1	Float	-

Device Address:D3018

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+18	Float	-

Device Address:D3019

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+19	Float	-

Device Address:D3020

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+20	Float	-

Device Address:D3021

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+21	Float	-

Device Address:D3022

Comment: PV Lower Range Value (LRV)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+22	Float	-

Device Address:D3023

Comment: PV Lower Range Value (LRV)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+23	Float	-

Device Address:D3024

Comment: PV Upper Range Value (URV)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+24	Float	-

Device Address:D3025

Comment: PV Upper Range Value (URV)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+25	Float	-

Device Address:D3026

Comment: SP Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+26	Float	-

Device Address:D3027  
Comment: SP Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+27	Float	-

Device Address:D3028  
Comment: SP High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+28	Float	-

Device Address:D3029  
Comment: SP High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+29	Float	-

Device Address:D3030  
Comment: MV Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+30	Float	-

Device Address:D3031  
Comment: MV Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+31	Float	-

Device Address:D3032  
Comment: MV High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+32	Float	-

Device Address:D3033  
Comment: MV High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+33	Float	-

Device Address:D3034  
Comment: Error Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+34	Float	-

Device Address:D3035  
Comment: Error Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+35	Float	-

Device Address:D3036  
Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+36	Float	-

Device Address:D3037  
Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+37	Float	-

Device Address:D3038

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+38	Float	-

Device Address:D3039

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+39	Float	-

Device Address:D3040

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+40	Float	-

Device Address:D3041

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+41	Float	-

Device Address:D3042

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+42	Float	-

Device Address:D3043

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+43	Float	-

Device Address:D3044

Comment: SP Lower Range Value

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+44	Float	-

Device Address:D3045

Comment: SP Lower Range Value

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+45	Float	-

Device Address:D3046

Comment: SP Upper Range Value

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+46	Float	-

Device Address:D3047

Comment: SP Upper Range Value

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+47	Float	-

Device Address:D3048

Comment: Output Manipulated Variable while PID Control is Inhibited

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+48	Float	-

Device Address:D3049

Comment: Output Manipulated Variable while PID Control is Inhibited

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+49	Float	-

Device Address:D3050

Comment: Deviation (Offset)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+50	Float	-

Device Address:D3051

Comment: Deviation (Offset)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+51	Float	-

Device Address:D3052

Comment: ST Dead Band

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+52	Float	-

Device Address:D3053

Comment: ST Dead Band

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+53	Float	-

Device Address:D3054

Comment: ST Update Cycle

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+54	Float	-

Device Address:D3055

Comment: ST Update Cycle

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+55	Float	-

Device Address:D3056

Comment: Kp Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+56	Float	-

Device Address:D3057

Comment: Kp Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+57	Float	-

Device Address:D3058



Comment: Kp High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+58	Float	-

Device Address:D3059

Comment: Kp High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+59	Float	-

Device Address:D3060

Comment: Ki Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+60	Float	-

Device Address:D3061

Comment: Ki Low Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+61	Float	-

Device Address:D3062

Comment: Ki High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+62	Float	-

Device Address:D3063

Comment: Ki High Limit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+63	Float	-

Device Address:D3064

Comment: Control period

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+64	Float	-

Device Address:D3065

Comment: Control period

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+65	Float	-

Device Address:D3066

Comment: Output Manipulated Variable (MV) Analog Value

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+66	Float	-

Device Address:D3067

Comment: Output Manipulated Variable (MV) Analog Value

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+67	Float	-

Device Address:D3068

Comment: ST Cycle

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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0 Heat	5	7	PIDD	S1+68	Float	-
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Device Address:D3069

Comment: ST Cycle

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+69	Float	-

Device Address:D3070

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+70	Float	-

Device Address:D3071

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+71	Float	-

Device Address:D3072

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+72	Float	-

Device Address:D3073

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+73	Float	-

Device Address:D3074

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+74	Float	-

Device Address:D3075

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+75	Float	-

Device Address:D3076

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+76	Float	-

Device Address:D3077

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+77	Float	-

Device Address:D3078

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+78	Float	-

Device Address:D3079

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+79	Float	-

Device Address:D3080

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+80	Float	-

Device Address:D3081

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+81	Float	-

Device Address:D3082

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+82	Float	-

Device Address:D3083

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+83	Float	-

Device Address:D3084

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+84	Float	-

Device Address:D3085

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+85	Float	-

Device Address:D3086

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+86	Float	-

Device Address:D3087

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+87	Float	-

Device Address:D3088

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+88	Float	-

Device Address:D3089

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+89	Float	-

Device Address:D3090

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+90	Float	-

Device Address:D3091

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+91	Float	-

Device Address:D3092

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+92	Float	-

Device Address:D3093

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+93	Float	-

Device Address:D3094

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+94	Float	-

Device Address:D3095

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+95	Float	-

Device Address:D3096

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+96	Float	-

Device Address:D3097

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+97	Float	-

Device Address:D3098

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+98	Float	-

Device Address:D3099

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S1+99	Float	-

Device Address:D3500 Tag Name:HS1\_DB

Program	Rung	Line	Symbol
0 Heat	6	8	SUB
0 Heat	8	10	CMP<

Device	Data Type	Repeat
D1	Float	-
S2	Float	-

Device Address:D3501 Tag Name:HS1\_UB

Program	Rung	Line	Symbol
0 Heat	6	8	SUB
0 Heat	8	10	CMP<

Device	Data Type	Repeat
D1	Float	-
S2	Float	-

Device Address:D3502 Tag Name:HS2\_DB

Program	Rung	Line	Symbol
0 Heat	7	9	SUB
0 Heat	9	11	CMP<

Device	Data Type	Repeat
D1	Float	-
S2	Float	-

Device Address:D3503 Tag Name:HS2\_UB

Program	Rung	Line	Symbol
0 Heat	7	9	SUB
0 Heat	9	11	CMP<

Device	Data Type	Repeat
D1	Float	-
S2	Float	-

Device Address:D4000

Program	Rung	Line	Symbol
Analog Module Configuration			

Device	Data Type	Repeat
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Device Address:D4001

Program	Rung	Line	Symbol
Analog Module Configuration			

Device	Data Type	Repeat
--------	-----------	--------

Device Address:D4002

Program	Rung	Line	Symbol
Analog Module Configuration			

Device	Data Type	Repeat
--------	-----------	--------

Device Address:D4003

Program	Rung	Line	Symbol
Analog Module Configuration			

Device	Data Type	Repeat
--------	-----------	--------

Device Address:D4004 Tag Name:GasHeatVolt

Comment: 2-10v Gas Heat Control signal

Program	Rung	Line	Symbol
Analog Module Configuration			

Device	Data Type	Repeat
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Device Address:D4005

Program	Rung	Line	Symbol
Analog Module Configuration			

Device	Data Type	Repeat
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Device Address:D7000 Tag Name:MQTT

Comment: MQTT Connection Status

Program	Rung	Line	Symbol
4 MQTT_Coms	1	2	LC=

MQTT Settings

Device	Data Type	Repeat
-	Word	-

Device Address:D7001

Program	Rung	Line	Symbol	Device	Data Type	Repeat
---------	------	------	--------	--------	-----------	--------

Device Address:D7002 Tag Name:MQT1PbSta1

Comment: MQTT 1 Publish Status 1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
---------	------	------	--------	--------	-----------	--------

Device Address:D7003 Tag Name:MQT1PbSta2

Comment: MQTT 1 Publish Status 2

Program	Rung	Line	Symbol	Device	Data Type	Repeat
---------	------	------	--------	--------	-----------	--------

Device Address:D7004 Tag Name:MQT1PbSta3

Comment: MQTT 1 Publish Status 3

Program	Rung	Line	Symbol	Device	Data Type	Repeat
---------	------	------	--------	--------	-----------	--------

Device Address:D7005 Tag Name:MQT1PbSta4

Comment: MQTT 1 Publish Status 4

Program	Rung	Line	Symbol	Device	Data Type	Repeat
---------	------	------	--------	--------	-----------	--------

Device Address:D10000 Tag Name:FloorTC\_Raw

Comment: CH0 : Data

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	21	CVDT	S1	Word	-

Analog Module Configuration

Device Address:D10001

Comment: CH0 : Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
---------	------	------	--------	--------	-----------	--------

Analog Module Configuration

Device Address:D10002

Comment: CH1 : Data

Program	Rung	Line	Symbol	Device	Data Type	Repeat
5 Water	1	1	CVDT	S1	Word	-

Analog Module Configuration

Device Address:D10003

Comment: CH1 : Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
---------	------	------	--------	--------	-----------	--------

Analog Module Configuration

Device Address:D10004

Comment: CH2 : Data

Program	Rung	Line	Symbol	Device	Data Type	Repeat
5 Water	3	3	CVDT	S1	Word	-

Analog Module Configuration

Device Address:D10005

Comment: CH2 : Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Analog Module Configuration						

Device Address:D10006 Tag Name:FlowRate\_E360

Comment: CH3 : Data

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Word	1
7 COP and Capacity c382			culatio3n Word	-	-	
Analog Module Configuration						

Device Address:D10007

Comment: CH3 : Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Analog Module Configuration						

Device Address:D10009

Comment: Script Status

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	18	SCRPT	D1	Word	-

Device Address:D10010

Comment: Script Status Floor

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	18	SCRPT	D1+1	Word	-
Main Program	7	20	SCRPT	D1	Word	-

Device Address:D10011

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	20	SCRPT	D1+1	Word	-
Main Program	7	22	SCRPT	D1	Word	-

Device Address:D10012

Comment: FloorTCFloat\_Raw

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	21	CVDT	D1	Float	-
Main Program	7	22	SCRPT	D1+1	Word	-
Script - 2						

Device Address:D10013

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	21	CVDT	D1	Float	-
Script - 2						

Device Address:D10014

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	7	23	SCRPT	D1	Word	-

Device Address:D70101

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70102						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70103						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70104						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70105						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70106						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70107						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70108						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70109						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70110						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70111						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70201						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70202						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						
Device Address:D70203						
Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						



Device Address:D70204

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70205

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70206

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70207

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70208

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70209

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70210

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:D70211

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Connection Settings						

Device Address:I0000 Tag Name:E\_Stop

Comment: Normally Closed

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	3	8	B	-	Bit	-
Main Program	4	9	A	-	Bit	-
Main Program	5	15	A	-	Bit	-
Main Program	6	16	A	-	Bit	-
Main Program	9	27	B	-	Bit	-
0 Heat	3	4	A	-	Bit	-
0 Heat	15	22	A	-	Bit	-
0 Heat	16	23	A	-	Bit	-
0 Heat	17	24	A	-	Bit	-
0 Heat	18	25	A	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:M0000 Tag Name:Start

Comment: HMI Start Button

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	1	1	A	-	Bit	-

Main Program	1	2	RST	-	Bit	-
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Device Address:M0001 Tag Name:Stop

Comment: HMI Stop Button

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	1	3	A	-	Bit	-
Main Program	1	4	RST	-	Bit	-
0 Heat	14	21	A	-	Bit	-

Device Address:M0002 Tag Name:Cycle

Comment: Cycle

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	1	1	SET	-	Bit	-
Main Program	1	3	RST	-	Bit	-
Main Program	2	6	A	-	Bit	-
Main Program	3	8	RST	-	Bit	-
Main Program	4	9	A	-	Bit	-
Main Program	6	16	A	-	Bit	-
0 Heat	1	1	B	-	Bit	-
0 Heat	3	4	A	-	Bit	-
0 Heat	5	7	A	-	Bit	-
0 Heat	15	22	A	-	Bit	-
0 Heat	16	23	A	-	Bit	-
0 Heat	17	24	A	-	Bit	-
0 Heat	18	25	A	-	Bit	-
1 Log	1	1	A	-	Bit	-
4 MQTT_Coms	1	1	A	-	Bit	-
4 MQTT_Coms	2	3	A	-	Bit	-
6 Epic logics	7	7	A	-	Bit	-
6 Epic logics	10	10	A	-	Bit	-
6 Epic logics	12	12	A	-	Bit	-

Device Address:M0003 Tag Name:Hum\_engage\_epic

Comment: Hum\_engage\_epic

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	14	A	-	Bit	-

Device Address:M0004 Tag Name:CoolCall

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	11	A	-	Bit	-

Script - 4

Script - 4

Device Address:M0005 Tag Name:FloorCall

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	10	A	-	Bit	-

Script - 2

Script - 2

Script - 2

Device Address:M0006 Tag Name:HumCall

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Main Program	4	14	A	-	Bit	-
Script - 3						
Script - 3						

Device Address:M0007    Tag Name:Big\_Hum\_engage\_epic  
Comment: Big\_Hum\_engage\_epic

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	7	7	A	-	Bit	-
6 Epic logics	8	8	A	-	Bit	-
6 Epic logics	10	10	A	-	Bit	-
6 Epic logics	11	11	B	-	Bit	-
6 Epic logics	12	12	A	-	Bit	-

Device Address:M0010    Tag Name:DefrostCall

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	9	B	-	Bit	-
Main Program	4	11	B	-	Bit	-
Main Program	4	13	A	-	Bit	-
Script - 4						
Script - 4						

Device Address:M0011    Tag Name:Manual\_humidifier  
Comment: Manual\_humidifier

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	10	10	B	-	Bit	-
6 Epic logics	12	12	A	-	Bit	-

Device Address:M0012    Tag Name:HtOnPIDInt

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	2	6	OUT	-	Bit	-
0 Heat	5	7	PIDD	S2	Bit	-

Device Address:M0016

Comment: Freeze Enable

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	9	28	A	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:M0017

Comment: Freeze Monitor

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	11	A	-	Bit	-
Main Program	8	26	CMP>	D1	Bit	-

Device Address:M0020    Tag Name:Big\_humidifier\_init

Comment: Big\_humidifier\_init

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	7	7	OUT	-	Bit	-
6 Epic logics	8	8	PIDD	S2	Bit	-

Device Address:M0024    Tag Name:MasterAlarm

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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Main Program	9	27	OUT	-	Bit	-
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Device Address:M0025 Tag Name:HMIHTisON  
Comment: HMI Heat On

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	19	26	OUT	-	Bit	-

Device Address:M0026 Tag Name:PVGtrSP  
Comment: PV>SP

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	10	12	CMP>	D1	Bit	-
0 Heat	11	13	A	-	Bit	-

Device Address:M0027 Tag Name:HTDis1stOn  
Comment: HT Dsable 1st on

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	2	7	SET	-	Bit	-
0 Heat	11	13	A	-	Bit	-
0 Heat	12	16	A	-	Bit	-
0 Heat	14	20	A	-	Bit	-
0 Heat	14	20	RST	-	Bit	-
0 Heat	21	33	B	-	Bit	-
0 Heat	22	38	B	-	Bit	-

Device Address:M0031 Tag Name:PVlsEqSP  
Comment: PV<=SP

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	13	19	CMP<=	D1	Bit	-
0 Heat	14	20	A	-	Bit	-

Device Address:M0035

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	1	1	CMP<	D1	Bit	-
2 Power	2	2	A	-	Bit	-

Device Address:M0100 Tag Name:PIDMomDisabl  
Comment: PID momentary disable

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	B	-	Bit	-
0 Heat	23	43	OUT	-	Bit	-

Device Address:M0102 Tag Name:SPtoPVDltaGr  
Comment: SP to PV delta greater than 10

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	20	31	CMP>	D1	Bit	-
0 Heat	21	33	A	-	Bit	-
0 Heat	22	38	B	-	Bit	-

Device Address:M0103 Tag Name:SPtoPVDltaLs  
Comment: SP to PV delta less than 9

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	20	32	CMP<=	D1	Bit	-

0 Heat	22	38	A	-	Bit	-
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Device Address:M0104 Tag Name:PIDRstdly1  
Comment: PID reset delay 1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	21	37	OUT	-	Bit	-
0 Heat	23	43	A	-	Bit	-

Device Address:M0105 Tag Name:PIDRstdly2  
Comment: PID reset delay 2

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	22	42	OUT	-	Bit	-
0 Heat	23	44	A	-	Bit	-

Device Address:M0110 Tag Name:HtrFnOffDly  
Comment: Heater Fan off Delay

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	1	1	OUT	-	Bit	-
0 Heat	2	3	A	-	Bit	-
0 Heat	15	22	B	-	Bit	-
0 Heat	16	23	B	-	Bit	-
0 Heat	17	24	B	-	Bit	-
0 Heat	18	25	B	-	Bit	-

Device Address:M0111 Tag Name:HMISTpLtch  
Comment: HMI Stop latching bit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	1	5	SET	-	Bit	-
0 Heat	1	1	A	-	Bit	-
0 Heat	1	2	RST	-	Bit	-

Device Address:M0112 Tag Name:HTOffWFnC1  
Comment: Heater Delay off While fans are called

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	2	3	OUT	-	Bit	-
0 Heat	3	5	A	-	Bit	-

Device Address:M0200  
Comment: TmpDev>3

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	8	10	CMP<	D1	Bit	-

Device Address:M0201  
Comment: TmpDev>6

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	9	11	CMP<	D1	Bit	-

Device Address:M0300  
Comment: Control Action

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3	Bit	-

Device Address:M0301

Comment: Manual Mode Select

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+1	Bit	-

Device Address:M0302

Comment: Auto Mode Select

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+2	Bit	-

Device Address:M0303

Comment: Cascade Control Mode Select

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+3	Bit	-

Device Address:M0304

Comment: Manual Mode Active

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+4	Bit	-

Device Address:M0305

Comment: Auto Mode Active

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+5	Bit	-

Device Address:M0306

Comment: Cascade Control Mode Active

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+6	Bit	-

Device Address:M0307

Comment: PV Tracking

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+7	Bit	-

Device Address:M0310

Comment: Kp Dependent

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+8	Bit	-

Device Address:M0311

Comment: Derivative

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+9	Bit	-

Device Address:M0312

Comment: Derivative Decay

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+10	Bit	-

Device Address:M0313

Comment: PID Inhibit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+11	Bit	-

Device Address:M0314

Comment: PID Control Inhibit Monitor

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+12	Bit	-

Device Address:M0315

Comment: Derivative Action Execution Monitor

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+13	Bit	-

Device Address:M0316

Comment: Control Output (Output Manipulated Variable (MV) Digital Value)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+14	Bit	-
0 Heat	15	22	A	-	Bit	-
0 Heat	16	23	A	-	Bit	-
0 Heat	17	24	A	-	Bit	-
0 Heat	18	25	A	-	Bit	-

Device Address:M0317

Comment: Self Tuning Enabled/Disabled

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+15	Bit	-

Device Address:M0320

Comment: Self Tuning Gain Update

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+16	Bit	-

Device Address:M0321

Comment: Self Tuning Executing

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+17	Bit	-

Device Address:M0322

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+18	Bit	-

Device Address:M0323

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+19	Bit	-

Device Address:M0324

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+20	Bit	-

Device Address:M0325

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+21	Bit	-

Device Address:M0326

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+22	Bit	-

Device Address:M0327

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+23	Bit	-

Device Address:M0330

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+24	Bit	-

Device Address:M0331

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+25	Bit	-

Device Address:M0332

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+26	Bit	-

Device Address:M0333

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+27	Bit	-

Device Address:M0334

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+28	Bit	-

Device Address:M0335

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+29	Bit	-

Device Address:M0336

Comment: Reserved

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+30	Bit	-

Device Address:M0337

Comment: Reserved



Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	5	7	PIDD	S3+31	Bit	-

Device Address:M0350

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	8	8	PIDD	S3	Bit	-

Device Address:M1000

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	D1	Bit	-

Device Address:M7000 Tag Name:MQTT\_Con

Comment: MQTT connection Bit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
4 MQTT_Coms	1	1	OUT	-	Bit	-

MQTT Settings

Device Address:M7001 Tag Name:MQTT\_Pub

Comment: MQTT Publish Bit

Program	Rung	Line	Symbol	Device	Data Type	Repeat
4 MQTT_Coms	2	3	SET	-	Bit	-

MQTT Settings

Device Address:M7010 Tag Name:MQTComOK

Comment: MQTT Coms to Broker OK

Program	Rung	Line	Symbol	Device	Data Type	Repeat
4 MQTT_Coms	1	2	OUT	-	Bit	-

Device Address:M8003

Comment: Carry (Cy) or Borrow (Bw)

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	6	8	SUB	-	Bit	-
0 Heat	7	9	SUB	-	Bit	-
0 Heat	20	30	SUB	-	Bit	-
2 Power	2	2	ADD	-	Bit	-
7 COP and Capacitance calculation	5	1	IN Bit	-	-	-

Device Address:M8121

Comment: 1-s Clock

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	6	6	A	-	Bit	-

Device Address:M8123

Comment: 10-ms Clock

Program	Rung	Line	Symbol	Device	Data Type	Repeat
2 Power	2	2	A	-	Bit	-

Device Address:M8125

Comment: In-operation Output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	1	1	A	-	Bit	-
Main Program	3	8	A	-	Bit	-

Main Program	4	9	A	-	Bit	-
Main Program	4	12	A	-	Bit	-
Main Program	5	15	A	-	Bit	-
Main Program	6	16	A	-	Bit	-
Main Program	7	17	A	-	Bit	-
Main Program	8	26	A	-	Bit	-
Main Program	10	29	A	-	Bit	-
Main Program	11	30	A	-	Bit	-
Main Program	12	31	A	-	Bit	-
Main Program	13	32	A	-	Bit	-
Main Program	14	33	A	-	Bit	-
0 Heat	4	6	A	-	Bit	-
0 Heat	5	7	A	-	Bit	-
0 Heat	6	8	A	-	Bit	-
0 Heat	7	9	A	-	Bit	-
0 Heat	8	10	A	-	Bit	-
0 Heat	9	11	A	-	Bit	-
0 Heat	10	12	A	-	Bit	-
0 Heat	11	13	A	-	Bit	-
0 Heat	13	19	A	-	Bit	-
0 Heat	20	30	A	-	Bit	-
1 Log	1	1	A	-	Bit	-
2 Power	1	1	A	-	Bit	-
2 Power	3	3	A	-	Bit	-
2 Power	4	4	A	-	Bit	-
2 Power	5	5	A	-	Bit	-
3 Remote RTD	1	1	A	-	Bit	-
3 Remote RTD	2	3	A	-	Bit	-
3 Remote RTD	3	5	A	-	Bit	-
3 Remote RTD	4	7	A	-	Bit	-
3 Remote RTD	5	9	B	-	Bit	-
4 MQTT_Coms	1	1	A	-	Bit	-
5 Water	1	1	A	-	Bit	-
5 Water	2	2	A	-	Bit	-
5 Water	3	3	A	-	Bit	-
5 Water	4	4	A	-	Bit	-
6 Epic logics	1	1	A	-	Bit	-
6 Epic logics	2	2	A	-	Bit	-
6 Epic logics	3	3	A	-	Bit	-
6 Epic logics	4	4	A	-	Bit	-
6 Epic logics	5	5	A	-	Bit	-
6 Epic logics	6	6	A	-	Bit	-
6 Epic logics	7	7	A	-	Bit	-
6 Epic logics	8	8	A	-	Bit	-
6 Epic logics	9	9	A	-	Bit	-
6 Epic logics	10	10	A	-	Bit	-
6 Epic logics	11	11	A	-	Bit	-
6 Epic logics	12	12	A	-	Bit	-
6 Epic logics	13	13	A	-	Bit	-
6 Epic logics	14	14	A	-	Bit	-
6 Epic logics	15	15	A	-	Bit	-
6 Epic logics	16	16	A	-	Bit	-

6 Epic logics	17	17	A	-	Bit	-
6 Epic logics	18	18	A	-	Bit	-
6 Epic logics	19	19	A	-	Bit	-
6 Epic logics	20	20	A	-	Bit	-
6 Epic logics	21	21	A	-	Bit	-
6 Epic logics	22	22	A	-	Bit	-
7 COP and Capacity calculation	1	1	Bit	-	-	-
7 COP and Capacity calculation	2	2	Bit	-	-	-
7 COP and Capacity calculation	3	3	Bit	-	-	-
7 COP and Capacity calculation	4	4	Bit	-	-	-
7 COP and Capacity calculation	5	5	Bit	-	-	-
7 COP and Capacity calculation	6	6	Bit	-	-	-

Device Address:M8150

Comment: Comparison Result 1

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	8	26	CMP>	-	Bit	-
0 Heat	8	10	CMP<	-	Bit	-
0 Heat	9	11	CMP<	-	Bit	-
0 Heat	10	12	CMP>	-	Bit	-
0 Heat	13	19	CMP<=	-	Bit	-
0 Heat	20	31	CMP>	-	Bit	-
0 Heat	20	32	CMP<=	-	Bit	-
2 Power	1	1	CMP<	-	Bit	-

Device Address:M8151

Comment: Comparison Result 2

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	8	26	CMP>	-	Bit	-
0 Heat	8	10	CMP<	-	Bit	-
0 Heat	9	11	CMP<	-	Bit	-
0 Heat	10	12	CMP>	-	Bit	-
0 Heat	13	19	CMP<=	-	Bit	-
0 Heat	20	31	CMP>	-	Bit	-
0 Heat	20	32	CMP<=	-	Bit	-
2 Power	1	1	CMP<	-	Bit	-

Device Address:M8152

Comment: Comparison Result 3

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	8	26	CMP>	-	Bit	-
0 Heat	8	10	CMP<	-	Bit	-
0 Heat	9	11	CMP<	-	Bit	-
0 Heat	10	12	CMP>	-	Bit	-
0 Heat	13	19	CMP<=	-	Bit	-
0 Heat	20	31	CMP>	-	Bit	-
0 Heat	20	32	CMP<=	-	Bit	-
2 Power	1	1	CMP<	-	Bit	-

Device Address:Q0000 Tag Name:HeatFanOutput

Comment: Heater Fans Contactor Call

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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0 Heat	2	3	A	-	Bit	-
0 Heat	3	4	OUT	-	Bit	-
0 Heat	19	26	A	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0001 Tag Name:EvapFansOutput  
Comment: Evap Fans HW output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	9	OUT	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0002 Tag Name:EvapDefrostOutput  
Comment: Evap Defrost HW Output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	13	OUT	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0003 Tag Name:SolOutput

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	11	OUT	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0004 Tag Name:HumOutput

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	14	OUT	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0005 Tag Name:FloorHeatOutput  
Comment: Floor Heat HW output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	4	10	OUT	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0006 Tag Name:GasHeatEnable  
Comment: Gas Heat Enable Contacts

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0007 Tag Name:UnitSafteyOutput

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	5	15	OUT	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0030 Tag Name:HumEnable

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	6	16	OUT	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0031 Tag Name:SSR\_Heat\_S1  
Comment: SSR 1 Heat HW Output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	15	22	OUT	-	Bit	-

0 Heat	19	26	A	-	Bit	-
1 Log	1	1	DLOG	-	Bit	1

Device Address:Q0032 Tag Name:SSR\_Heat\_S2

Comment: SSR 2 Heat HW Output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	16	23	OUT	-	Bit	-
0 Heat	19	27	A	-	Bit	-

Device Address:Q0033 Tag Name:SSR\_Heat\_S3

Comment: SSR 3 Heat HW Output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	17	24	OUT	-	Bit	-
0 Heat	19	28	A	-	Bit	-

Device Address:Q0034 Tag Name:SSR\_Heat\_S4

Comment: SSR \$ Heat HW Output

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	18	25	OUT	-	Bit	-
0 Heat	19	29	A	-	Bit	-

Device Address:T0000

Comment: PID Init Timer

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	2	6	TMLO	T	Word	-

Device Address:T0001

Comment: HMI Heat on indicator

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	19	26	TMSO	T	Word	-

Device Address:T0003 Tag Name:HtrFnOfDly

Comment: Heater Fan Off Delay

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	1	1	TMLO	T	Word	-

Device Address:T0010

Comment: Hum Off Delay

Program	Rung	Line	Symbol	Device	Data Type	Repeat
6 Epic logics	7	7	TML	T	Word	-

Device Address:T0019

Comment: Hum Off Delay

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	6	16	TMLO	T	Word	-

Device Address:T0021

Comment: Estop Dbounce

Program	Rung	Line	Symbol	Device	Data Type	Repeat
Main Program	3	8	TML	T	Word	-

Device Address:T0100

Program	Rung	Line	Symbol	Device	Data Type	Repeat
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0 Heat	21	37	TMLO	T	Word	-
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Device Address:T0101

Program	Rung	Line	Symbol	Device	Data Type	Repeat
0 Heat	22	42	TMLO	T	Word	-

Device Address:T0126

Program	Rung	Line	Symbol	Device	Data Type	Repeat
1 Log	1	1	B	-	Bit	-
1 Log	1	1	TML	T	Word	-

Device Address:T0200 Tag Name:MQTPubTmr

Comment: MQTT Publish Timer

Program	Rung	Line	Symbol	Device	Data Type	Repeat
4 MQTT_Coms	2	3	B	-	Bit	-
4 MQTT_Coms	2	3	TML	T	Word	-

# **Tag Name list**

Device Address	Tag Name	USED	Comments
D0000	Blower_control	1	Blower_control
D0001	Blower_Speed	1	Blower_Speed
D0002	Amb_temp_set_epicX10	1	Amb_temp_set_epicX10
D0003	RH_set_epicX10	1	RH_set_epicX10
D0004	Amb_temp_epic_X10_F	2	Amb_temp_epic_X10_F
D0006	RH_epic_X10_F	2	RH_epic_X10_F
D0008	Amb_temp_set_epic_F	2	Amb_temp_set_epic_F
D0009	-	2	Amb_temp_set_epic_F_up
D0010	RH_set_epic_F	2	RH_set_epic_F
D0011	-	2	RH_set_epic_F_up
D0012	Hum_manual_override	1	Hum_manual_override
D0022	TempF1	1	
D0023	TempF1_ub	1	
D0024	RH1	2	
D0025	RH1_ub	2	
D0026	ABS_H1	1	
D0027	ABS_H1_ub	1	
D0030	DPF1	1	
D0031	DPF1_ub	1	
D0042	TempF2	1	
D0043	TempF2_ub	1	
D0044	RH2	2	
D0045	RH2_ub	2	
D0046	ABS_H2	1	
D0047	ABS_H2_ub	1	
D0050	DPF2	1	
D0051	DPF2_ub	1	
D0062	TempF3	1	
D0063	TempF3_ub	1	
D0064	RH3	2	
D0065	RH3_ub	2	
D0068	DPC3	1	
D0069	DPC3_ub	1	
D0070	DPF3	1	
D0071	DPF3_ub	1	
D0082	TempF4	1	
D0083	TempF4_ub	1	
D0084	RH4	2	
D0085	RH4_ub	2	
D0086	ABS_H4	1	
D0087	ABS_H4_ub	1	
D0090	DPF4	2	
D0091	DPF4_ub	2	
D0094	FloorTC	4	Floor Heat Float
D0095	FloorTC_ub	4	
D0100	K2_SUP1_In	2	Kelvin2 : Superheat1
D0101	K2_SLP1_In	2	Kelvin2 : SLP1
D0102	K2_ET1_In	2	Kelvin2 : Evap Temp 1

D0103	K2_SAT1_In	2	Kelvin2 : Sat Temp 1
D0104	K2_RT1_In	1	Kelvin2 : UNUSED
D0105	K2_ValvePos1_In	2	Kelvin2 : Valve Position 1
D0106	K2_AUX1a_In	1	Kelvin2 : UNUSED
D0107	K2_RLY1	1	Kelvin2 : UNUSED
D0108	K2_Alarm1	2	Kelvin2 : Alarm1
D0109	K2_System1	2	Kelvin2 : System1
D0110	K2_Firmware1	1	Kelvin2 : Firmware Version 1
D0111	K2_AUX1b_In	2	Kelvin2 : SLT1
D0112	K2_SLP2_In	1	Kelvin2 : SLP2
D0113	K2_ET2_In	1	Kelvin2 : Evap Temp 2
D0114	K2Read_SUP	2	Read Kelvin2a : Superheat Setpoint
D0115	K2Read_REFT	1	Read Kelvin2a : Refrigtype
D0116	K2Read_DOnRLY	1	Read Kelvin2a : Delay On Relay
D0117	K2Read_DOffRLY	1	Read Kelvin2a : Delay Off Relay
D0118	K2Read_DSteps	1	Read Kelvin2a : Delay Steps
D0119	K2Read_LowSLP	1	Read Kelvin2a : Low SLP Cutout
D0120	K2Read_HighSLP	1	Read Kelvin2a : High SLP Cutout
D0121	K2Read_TempCutIn	1	Read Kelvin2a : Temp CutIn
D0122	K2Read_TempCutOut	1	Read Kelvin2a : Temp CutOut
D0123	K2Read_EEVMax	1	Read Kelvin2a : EEV Max Postion
D0124	K2Read_SMMode	1	Read Kelvin2a : SupermarketMode
D0125	K2Read_P	1	Read Kelvin2a : P
D0126	K2Read_I	1	Read Kelvin2a : I
D0127	K2Read_D	1	Read Kelvin2a : D
D0128	K2Read_EEVType	1	Read Kelvin2a : EEV Step Count
D0129	K2Read_ManPos	1	Read Kelvin2a : Manual Position Setpoint
D0130	K2Read_ModAddr	1	Read Kelvin2a : Modbus Address
D0131	K2Read_PSIUnit	1	Read Kelvin2a : Pressure Units
D0132	K2Read_TempUnit	1	Read Kelvin2a : Temp Units
D0133	K2Read_PSIType	1	Read Kelvin2a : Pressure Sensor Type
D0134	K2Read_PCOffset	1	Read Kelvin2a : Pressure Offset
D0135	K2Read_ET1Offset	1	Read Kelvin2a : Evap1 Temp Offset
D0136	K2Read_RoomOffset	1	Read Kelvin2a : Room Temp Offset
D0137	K2Read_AUX1aOffset	1	Read Kelvin2a : Aux 1 Offset
D0138	K2Read_PSIRange	1	Read Kelvin2a : Pressure Range
D0139	K2Read_BPPercent	1	Read Kelvin2a : Bleed Port Percentage
D0140	K2Read_BPDelay	1	Read Kelvin2a : Bleed Port Delay Time
D0141	K2Read_CDA	1	Read Kelvin2a : Controller Display Address
D0142	K2Read_TempType	1	Read Kelvin2a : Temp Probe Type
D0143	K2Read_AUX1bOffset	1	Read Kelvin2a : Aux 2 Offset
D0144	K2Read_SHDeadband	1	Read Kelvin2a : Superheat Deadband
D0145	K2Read_MinRLYOn	1	Read Kelvin2a : Minimum RLY On Time
D0150	-	1	Center room temp Raw C
D0153	-	1	Center room Abs Humid Raw percent
D0154	-	1	Center room Dew Pt C
D0155	-	1	Center room Dew Pt F
D0156	-	1	Center room mixing ratio
D0160	-	2	Flt Center room temp C
D0166	-	2	Flt Center Room Abs Humidity
D0168	-	2	Flt Center Room Dew Pt C
D0170	-	2	Flt Center Room Dew Pt F



D0172	-	1	Flt Center Room Mixing
D0174	TempRm_C	1	Scld Center Room Temp C
D0176	TempRm_F	4	Scld Center Room Temp F
D0178	RH_Rm	4	Scld Center Room RH
D0180	ABS_Rm	2	Scld Center Room ABS Humidity
D0182	DPC_Rm	1	Scld Center Room Dew PT C
D0184	DPF_Rm	2	Scld Center Room Dew PT F
D0190	RmtTC01	1	Remote TC from PLC2
D0200	TempAvg	12	Temp Average
D0201	TempAvg1	12	
D0202	TempSetpoint	8	TempSetpoint
D0203	TempSetpoint_ub	8	TempSetpoint_ub
D0204	RHSetpoint	6	RHSetpoint
D0205	RHSetpoint_ub	6	RHSetpoint_ub
D0250	FloorCutin	1	
D0251	FloorCutin_ub	1	
D0252	FloorCutout	1	
D0253	FloorCutout_ub	1	
D0254	CoolingDB	1	
D0255	Coolingdb_ub	1	
D0256	RhDB	1	
D0257	RHdb_up	1	
D0258	RHAvg	6	
D0259	RHAvg_ub	6	
D0260	DefrostCutin	1	
D0261	DefrostCutin_ub	1	
D0262	DefrostCutout	1	
D0263	DefrostCutout_ub	1	
D0264	EvapTempRaw	2	
D0265	EvapTempRaw_ub	2	
D0266	EvapTemp	5	
D0267	EvapTemp_ub	5	
D0270	-	2	CH0 : Data
D0271	-	1	CH0 : Status
D0272	-	1	CH1 : Data
D0273	-	1	CH1 : Status
D0274	-	4	Valve Control
D0275	-	1	CH2 : Status
D0280	Hum_PID_init_timer	1	Hum_PID_init_timer
D0282	Hum_MV_F	2	Hum_MV_F
D0300	Energy_Delivered	3	kWh
D0302	Energy_Received	3	kWh
D0304	Reactive_Del	3	kVARh
D0306	Reactive_Rec	3	kVARh
D0308	Real_Power	4	kw
D0310	Reactive_Power	3	kVAR
D0312	Apparent_Power	3	kVA
D0314	Power_Factor	3	%PF
D0316	Current_Total	3	Amps
D0318	Current_Avg	3	Amps
D0320	Voltage_Line_N	3	Volts Neutral
D0322	Voltage_line	3	Volts line-line

D0324	Frequency	3	Hz
D0326	Phase_angle	1	Degree
D0328	Real_Power_A	1	kW
D0330	Real_Power_B	1	kW
D0332	Real_Power_C	1	kW
D0334	Reactive_Power_A	1	kVAR Phase A
D0336	Reactive_Power_B	1	kVar Phae B
D0338	Reactive_Power_C	1	kVar Phase C
D0340	Apparent_Power_A	1	kVAR Phase A
D0342	Apparent_Power_B	1	kVAR Phase B
D0344	Apparent_Power_C	1	kVAR Phase C
D0346	Power_Factor_A	1	% PF
D0348	Power_Factor_B	1	%PF
D0350	Power_Factor_C	1	%PF
D0352	Current_A	1	Amps
D0354	Current_B	1	Amps
D0356	Current_C	1	Amps
D0358	Voltage_PhaseA_N	1	line to neutral Volts-N
D0360	Voltage_PhaseB_N	1	line to neutral Volts-N
D0362	Voltage_PhaseC_N	1	line to neutral Volts-N
D0364	Voltage_Phase_A_B	1	line to line Volts-L
D0366	Voltage_Phase_B_C	1	line to line Volts-N
D0368	Voltage_Phase_C_A	1	line to line Volts-L
D0370	Phase_Angle_A	1	Degree
D0372	Phase_Angle_B	1	Degree
D0374	Phase_Angle_C	1	Degree
D0390	-	10	pointer even
D0510	Hum_P_epicX100	1	Hum_P_epicX100
D0512	Hum_I_epicX100	1	Hum_I_epicX100
D0514	Hum_D_epicX100	1	Hum_D_epicX100
D0516	Hum_P_FX100	2	Hum_P_FX100
D0518	Hum_I_FX100	2	Hum_I_FX100
D0520	Hum_D_FX100	2	Hum_D_FX100
D0522	Hum_P_F	2	Hum_P_F
D0524	Hum_I_F	2	Hum_I_F
D0526	Hum_D_F	2	Hum_D_F
D0800	LWT_E360	2	
D0804	EWT_E360	2	
D10000	FloorTC_Raw	2	CH0 : Data
D10001	-	1	CH0 : Status
D10002	-	2	CH1 : Data
D10003	-	1	CH1 : Status
D10004	-	2	CH2 : Data
D10005	-	1	CH2 : Status
D10006	FlowRate_E360	3	CH3 : Data
D10007	-	1	CH3 : Status
D10009	-	1	Script Status
D10010	-	2	Script Status Floor
D10012	-	3	FloorTCFloat_Raw
D1020	-	3	SP to PV Delta
D1910	-	2	(LWT-EWT)
D1912	-	2	(LWT - EWT)*500

D1914	-	2	Capacity (BTU/hr)
D1916	-	2	KW*3412
D1918	-	1	COP
D1920	-	2	KW*3412 (word)
D2002	LWT	2	Leaving WaterTemp from Unit
D2012	EWT	1	Entering Water Temp into Tesh Chamber
D3000	-	2	Process Variable (PV)
D3001	-	2	Process Variable (PV)
D3002	-	6	Set Point (SP)
D3003	-	6	Set Point (SP)
D3004	-	1	Remote Set Point (RSP)
D3005	-	1	Remote Set Point (RSP)
D3006	-	5	Kp (Gain)
D3007	-	5	Kp (Gain)
D3008	-	5	Ki (Integral)
D3009	-	5	Ki (Integral)
D3010	-	4	Kd (Derivative)
D3011	-	4	Kd (Derivative)
D3012	-	1	Reserved
D3013	-	1	Reserved
D3014	-	1	Manual Output Manipulated Variable
D3015	-	1	Manual Output Manipulated Variable
D3016	-	5	Output Manipulated Variable (MV)
D3017	-	5	Output Manipulated Variable (MV)
D3018	-	1	Reserved
D3019	-	1	Reserved
D3020	-	1	Reserved
D3021	-	1	Reserved
D3022	-	1	PV Lower Range Value (LRV)
D3023	-	1	PV Lower Range Value (LRV)
D3024	-	1	PV Upper Range Value (URV)
D3025	-	1	PV Upper Range Value (URV)
D3026	-	1	SP Low Limit
D3027	-	1	SP Low Limit
D3028	-	1	SP High Limit
D3029	-	1	SP High Limit
D3030	-	1	MV Low Limit
D3031	-	1	MV Low Limit
D3032	-	1	MV High Limit
D3033	-	1	MV High Limit
D3034	-	1	Error Status
D3035	-	1	Error Status
D3036	-	1	Reserved
D3037	-	1	Reserved
D3038	-	1	Reserved
D3039	-	1	Reserved
D3040	-	1	Reserved
D3041	-	1	Reserved
D3042	-	1	Reserved
D3043	-	1	Reserved
D3044	-	1	SP Lower Range Value
D3045	-	1	SP Lower Range Value

D3046	-	1	SP Upper Range Value
D3047	-	1	SP Upper Range Value
D3048	-	1	Output Manipulated Variable while PID Contr
D3049	-	1	Output Manipulated Variable while PID Contr
D3050	-	1	Deviation (Offset)
D3051	-	1	Deviation (Offset)
D3052	-	1	ST Dead Band
D3053	-	1	ST Dead Band
D3054	-	1	ST Update Cycle
D3055	-	1	ST Update Cycle
D3056	-	1	Kp Low Limit
D3057	-	1	Kp Low Limit
D3058	-	1	Kp High Limit
D3059	-	1	Kp High Limit
D3060	-	1	Ki Low Limit
D3061	-	1	Ki Low Limit
D3062	-	1	Ki High Limit
D3063	-	1	Ki High Limit
D3064	-	1	Control period
D3065	-	1	Control period
D3066	-	1	Output Manipulated Variable (MV) Analog Val
D3067	-	1	Output Manipulated Variable (MV) Analog Val
D3068	-	1	ST Cycle
D3069	-	1	ST Cycle
D3070	-	1	Reserved
D3071	-	1	Reserved
D3072	-	1	Reserved
D3073	-	1	Reserved
D3074	-	1	Reserved
D3075	-	1	Reserved
D3076	-	1	Reserved
D3077	-	1	Reserved
D3078	-	1	Reserved
D3079	-	1	Reserved
D3080	-	1	Reserved
D3081	-	1	Reserved
D3082	-	1	Reserved
D3083	-	1	Reserved
D3084	-	1	Reserved
D3085	-	1	Reserved
D3086	-	1	Reserved
D3087	-	1	Reserved
D3088	-	1	Reserved
D3089	-	1	Reserved
D3090	-	1	Reserved
D3091	-	1	Reserved
D3092	-	1	Reserved
D3093	-	1	Reserved
D3094	-	1	Reserved
D3095	-	1	Reserved
D3096	-	1	Reserved
D3097	-	1	Reserved

D3098	-	1	Reserved
D3099	-	1	Reserved
D3500	HS1_DB	2	
D3501	HS1_UB	2	
D3502	HS2_DB	2	
D3503	HS2_UB	2	
D4004	GasHeatVolt	1	2-10v Gas Heat Control signal
D7000	MQTT	2	MQTT Connection Status
D7002	MQTT1PbSta1	1	MQTT 1 Publish Status 1
D7003	MQTT1PbSta2	1	MQTT 1 Publish Status 2
D7004	MQTT1PbSta3	1	MQTT 1 Publish Status 3
D7005	MQTT1PbSta4	1	MQTT 1 Publish Status 4
D8000	-	1	Quantity of Inputs
D8001	-	1	Quantity of Outputs
D8002	-	1	CPU Module Type Information
D8003	-	1	Reserved
D8004	-	1	Reserved
D8005	-	1	General Error Code
D8006	-	1	User Program Execution Error Code
D8007	-	1	Reserved
D8008	-	1	Calendar/Clock Current Data (Read only) Year
D8009	-	1	Calendar/Clock Current Data (Read only) Month
D8010	-	1	Calendar/Clock Current Data (Read only) Day
D8011	-	1	Calendar/Clock Current Data (Read only) Day of Week
D8012	-	1	Calendar/Clock Current Data (Read only) Hour
D8013	-	1	Calendar/Clock Current Data (Read only) Minute
D8014	-	1	Calendar/Clock Current Data (Read only) Second
D8015	-	1	Calendar/Clock New Data (Write only) Year
D8016	-	1	Calendar/Clock New Data (Write only) Month
D8017	-	1	Calendar/Clock New Data (Write only) Day
D8018	-	1	Calendar/Clock New Data (Write only) Day of Week
D8019	-	1	Calendar/Clock New Data (Write only) Hour
D8020	-	1	Calendar/Clock New Data (Write only) Minute
D8021	-	1	Calendar/Clock New Data (Write only) Second
D8022	-	1	Scan Time Data Constant Scan Time Preset Value
D8023	-	1	Scan Time Data Scan Time Current Value (ms)
D8024	-	1	Scan Time Data Scan Time Maximum Value (ms)
D8025	-	1	Scan Time Data Scan Time Minimum Value (ms)
D8026	-	1	Communication Mode Information (Port 1 to Port 4)
D8027	-	1	Reserved
D8028	-	1	Reserved
D8029	-	1	System Software Version
D8030	-	1	Communication Cartridge Information
D8031	-	1	Optional Device Connection Information
D8032	-	1	Interrupt Input Jump Destination Label No. 1
D8033	-	1	Interrupt Input Jump Destination Label No. 2
D8034	-	1	Interrupt Input Jump Destination Label No. 3
D8035	-	1	Interrupt Input Jump Destination Label No. 4
D8036	-	1	Timer Interrupt Jump Destination Label No.
D8037	-	1	Number of Connected I/O Modules
D8038	-	1	Reserved
D8039	-	1	Reserved

D8040	-	1	Slave Number (Port 4)
D8041	-	1	Slave Number (Port 5)
D8042	-	1	Slave Number (Port 6)
D8043	-	1	Slave Number (Port 7)
D8044	-	1	Slave Number (Port 8)
D8045	-	1	Slave Number (Port 9)
D8046	-	1	Reserved
D8047	-	1	Reserved
D8048	-	1	Reserved
D8049	-	1	Reserved
D8050	-	1	Reserved
D8051	-	1	Reserved
D8052	-	1	J1939 Communication Error Code
D8053	-	1	Reserved
D8054	-	1	Reserved
D8055	-	1	Reserved
D8056	-	1	Battery Voltage
D8057	-	1	Analog Volume (AI0)
D8058	-	1	Built-in Analog Input (AI1)
D8059	-	1	Analog Input Status AI0
D8060	-	1	Analog Input Status AI1
D8061	-	1	Reserved
D8062	-	1	Reserved
D8063	-	1	Reserved
D8064	-	1	Reserved
D8065	-	1	Reserved
D8066	-	1	Reserved
D8067	-	1	Backlight ON Time
D8068	-	1	Reserved
D8069	-	1	Slave 1 Communication Status/Error (When Da
D8070	-	1	Slave 2 Communication Status/Error (When Da
D8071	-	1	Slave 3 Communication Status/Error (When Da
D8072	-	1	Slave 4 Communication Status/Error (When Da
D8073	-	1	Slave 5 Communication Status/Error (When Da
D8074	-	1	Slave 6 Communication Status/Error (When Da
D8075	-	1	Slave 7 Communication Status/Error (When Da
D8076	-	1	Slave 8 Communication Status/Error (When Da
D8077	-	1	Slave 9 Communication Status/Error (When Da
D8078	-	1	Slave 10 Communication Status/Error (When D
D8079	-	1	Slave 11 Communication Status/Error (When D
D8080	-	1	Slave 12 Communication Status/Error (When D
D8081	-	1	Slave 13 Communication Status/Error (When D
D8082	-	1	Slave 14 Communication Status/Error (When D
D8083	-	1	Slave 15 Communication Status/Error (When D
D8084	-	1	Slave 16 Communication Status/Error (When D
D8085	-	1	Slave 17 Communication Status/Error (When D
D8086	-	1	Slave 18 Communication Status/Error (When D
D8087	-	1	Slave 19 Communication Status/Error (When D
D8088	-	1	Slave 20 Communication Status/Error (When D
D8089	-	1	Slave 21 Communication Status/Error (When D
D8090	-	1	Slave 22 Communication Status/Error (When D
D8091	-	1	Slave 23 Communication Status/Error (When D

D8092	-	1	Slave 24 Communication Status/Error (When D
D8093	-	1	Slave 25 Communication Status/Error (When D
D8094	-	1	Slave 26 Communication Status/Error (When D
D8095	-	1	Slave 27 Communication Status/Error (When D
D8096	-	1	Slave 28 Communication Status/Error (When D
D8097	-	1	Slave 29 Communication Status/Error (When D
D8098	-	1	Slave 30 Communication Status/Error (When D
D8099	-	1	Slave 31 Communication Status/Error (When D
D8100	-	1	Slave Number (Port 1)
D8101	-	1	Reserved
D8102	-	1	Slave Number (Port 2)
D8103	-	1	Slave Number (Port 3)
D8104	-	1	Control Signal Status (Port 1 to 5)
D8105	-	1	RS232C DSR Input Control Signal Option (Por
D8106	-	1	RS232C DTR Output Control Signal Option (Po
D8107	-	1	Reserved
D8108	-	1	Reserved
D8109	-	1	Reserved
D8110	-	1	Reserved
D8111	-	1	Reserved
D8112	-	1	Reserved
D8113	-	1	Reserved
D8114	-	1	Reserved
D8115	-	1	Reserved
D8116	-	1	Reserved
D8117	-	1	Reserved
D8118	-	1	Reserved
D8119	-	1	Reserved
D8120	-	1	HMI Module Information (Type ID/Status)
D8121	-	1	HMI Module Information (System Software Ver
D8122	-	1	Cartridge Slot 1 Information (Type ID/Statu
D8123	-	1	Cartridge Slot 1 Information (System Softwa
D8124	-	1	Cartridge Slot 2 Information (Type ID/Statu
D8125	-	1	Cartridge Slot 2 Information (System Softwa
D8126	-	1	Cartridge Slot 3 Information (Type ID/Statu
D8127	-	1	Cartridge Slot 3 Information (System Softwa
D8128	-	1	Reserved
D8129	-	1	Reserved
D8130	-	1	Reserved
D8131	-	1	Reserved
D8132	-	1	Reserved
D8133	-	1	Reserved
D8134	-	1	Reserved
D8135	-	1	Reserved
D8136	-	1	Reserved
D8137	-	1	Reserved
D8138	-	1	Reserved
D8139	-	1	Reserved
D8140	-	1	Reserved
D8141	-	1	Reserved
D8142	-	1	Reserved
D8143	-	1	Reserved

D8144	-	1	Reserved
D8145	-	1	Reserved
D8146	-	1	Reserved
D8147	-	1	Reserved
D8148	-	1	Reserved
D8149	-	1	Reserved
D8150	-	1	Reserved
D8151	-	1	Reserved
D8152	-	1	Reserved
D8153	-	1	Reserved
D8154	-	1	Reserved
D8155	-	1	Reserved
D8156	-	1	Reserved
D8157	-	1	Reserved
D8158	-	1	Reserved
D8159	-	1	Reserved
D8160	-	1	Reserved
D8161	-	1	Reserved
D8162	-	1	Reserved
D8163	-	1	Reserved
D8164	-	1	Reserved
D8165	-	1	Reserved
D8166	-	1	Reserved
D8167	-	1	Reserved
D8168	-	1	Reserved
D8169	-	1	Reserved
D8170	-	1	Analog I/O Cartridge I/O AI2/AQ2
D8171	-	1	Analog I/O Cartridge I/O AI3/AQ3
D8172	-	1	Analog I/O Cartridge Status AI2/AQ2
D8173	-	1	Analog I/O Cartridge Status AI3/AQ3
D8174	-	1	Analog I/O Cartridge I/O AI4/AQ4
D8175	-	1	Analog I/O Cartridge I/O AI5/AQ5
D8176	-	1	Analog I/O Cartridge Status AI4/AQ4
D8177	-	1	Analog I/O Cartridge Status AI5/AQ5
D8178	-	1	Analog I/O Cartridge I/O AI6/AQ6
D8179	-	1	Analog I/O Cartridge I/O AI7/AQ7
D8180	-	1	Analog I/O Cartridge Status AI6/AQ6
D8181	-	1	Analog I/O Cartridge Status AI7/AQ7
D8182	-	1	Reserved
D8183	-	1	Reserved
D8184	-	1	Reserved
D8185	-	1	Reserved
D8186	-	1	Reserved
D8187	-	1	Reserved
D8188	-	1	Reserved
D8189	-	1	Reserved
D8190	-	1	Reserved
D8191	-	1	Reserved
D8192	-	1	High-speed Counter (Group 2/I1) High Word (C
D8193	-	1	High-speed Counter (Group 2/I1) Low Word (C
D8194	-	1	High-speed Counter (Group 2/I1) High Word (C
D8195	-	1	High-speed Counter (Group 2/I1) Low Word (P



D8196	-	1	High-speed Counter (Group 2/I1) High Word (P
D8197	-	1	High-speed Counter (Group 2/I1) Low Word (P
D8198	-	1	High-speed Counter (Group 6/I7) High Word (P
D8199	-	1	High-speed Counter (Group 6/I7) Low Word (C
D8200	-	1	High-speed Counter (Group 6/I7) High Word (P
D8201	-	1	High-speed Counter (Group 6/I7) Low Word (P
D8202	-	1	High-speed Counter (Group 6/I7) High Word (P
D8203	-	1	High-speed Counter (Group 6/I7) Low Word (P
D8204	-	1	Control Signal Status (Port 6 to 9)
D8205	-	1	RS232C DSR Input Control Signal Option (Por
D8206	-	1	RS232C DTR Output Control Signal Option (Po
D8207	-	1	Reserved
D8208	-	1	Reserved
D8209	-	1	Reserved
D8210	-	1	High-speed Counter (Group 1/I0) High Word (P
D8211	-	1	High-speed Counter (Group 1/I0) Low Word (C
D8212	-	1	High-speed Counter (Group 1/I0) High Word (P
D8213	-	1	High-speed Counter (Group 1/I0) Low Word (P
D8214	-	1	Interrupt Input Jump Destination Label No.
D8215	-	1	Interrupt Input Jump Destination Label No.
D8216	-	1	High-speed Counter (Group 1/I0) High Word (P
D8217	-	1	High-speed Counter (Group 1/I0) Low Word (P
D8218	-	1	High-speed Counter (Group 3/I3) High Word (P
D8219	-	1	High-speed Counter (Group 3/I3) Low Word (C
D8220	-	1	High-speed Counter (Group 3/I3) High Word (P
D8221	-	1	High-speed Counter (Group 3/I3) Low Word (P
D8222	-	1	High-speed Counter (Group 4/I4) High Word (P
D8223	-	1	High-speed Counter (Group 4/I4) Low Word (C
D8224	-	1	High-speed Counter (Group 4/I4) High Word (P
D8225	-	1	High-speed Counter (Group 4/I4) Low Word (P
D8226	-	1	High-speed Counter (Group 5/I6) High Word (P
D8227	-	1	High-speed Counter (Group 5/I6) Low Word (C
D8228	-	1	High-speed Counter (Group 5/I6) High Word (P
D8229	-	1	High-speed Counter (Group 5/I6) Low Word (P
D8230	-	1	Reserved
D8231	-	1	Reserved
D8232	-	1	High-speed Counter (Group 5/I6) High Word (P
D8233	-	1	High-speed Counter (Group 5/I6) Low Word (P
D8234	-	1	High-speed Counter (Group 3/I3) High Word (P
D8235	-	1	High-speed Counter (Group 3/I3) Low Word (P
D8236	-	1	High-speed Counter (Group 4/I4) High Word (P
D8237	-	1	High-speed Counter (Group 4/I4) Low Word (P
D8238	-	1	Reserved
D8239	-	1	Absolute Position Control Status
D8240	-	1	Absolute Position Counter 1 High Word (Abso
D8241	-	1	Absolute Position Counter 1 Low Word (Absol
D8242	-	1	Absolute Position Counter 2 High Word (Abso
D8243	-	1	Absolute Position Counter 2 Low Word (Absol
D8244	-	1	Absolute Position Counter 3 High Word (Abso
D8245	-	1	Absolute Position Counter 3 Low Word (Absol
D8246	-	1	Absolute Position Counter 4 High Word (Abso
D8247	-	1	Absolute Position Counter 4 Low Word (Absol

D8248	-	1	Reserved
D8249	-	1	Reserved
D8250	-	1	Read SD Memory Card Capacity
D8251	-	1	Read SD Memory Card Free Capacity
D8252	-	1	Reserved
D8253	-	1	Reserved
D8254	-	1	SD Memory Card Download/Upload Execution In
D8255	-	1	SD Memory Card Download/Upload Execution St
D8256	-	1	Download MQTT Basic Settings from SD Memory
D8257	-	1	Download MQTT Basic Settings from SD Memory
D8258	-	1	Reserved
D8259	-	1	Reserved
D8260	-	1	Recipe Block Number
D8261	-	1	Recipe Execution Block Number
D8262	-	1	Recipe Execution Channel No.
D8263	-	1	Recipe Execution Operation
D8264	-	1	Recipe Execution Status
D8265	-	1	Recipe Execution Error Information
D8266	-	1	Recipe Internal Memory (ROM-Preset Range 1)
D8267	-	1	Recipe Internal Memory (ROM-Preset Range 2)
D8268	-	1	Reserved
D8269	-	1	Reserved
D8270	-	1	Reserved
D8271	-	1	Reserved
D8272	-	1	Reserved
D8273	-	1	Reserved
D8274	-	1	Reserved
D8275	-	1	Reserved
D8276	-	1	Reserved
D8277	-	1	Reserved
D8278	-	1	Communication Mode Information (Client Conn
D8279	-	1	Communication Mode Information (Client Conn
D8280	-	1	Reserved
D8281	-	1	Reserved
D8282	-	1	Reserved
D8283	-	1	Reserved
D8284	-	1	Communication Mode Information (HMI Connect
D8285	-	1	Communication Mode Information (HMI Connect
D8286	-	1	Reserved
D8287	-	1	Reserved
D8288	-	1	Reserved
D8289	-	1	Reserved
D8290	-	1	Reserved
D8291	-	1	Reserved
D8292	-	1	Reserved
D8293	-	1	Reserved
D8294	-	1	Reserved
D8295	-	1	Reserved
D8296	-	1	Reserved
D8297	-	1	Reserved
D8298	-	1	Reserved
D8299	-	1	Reserved

D8300	-	1	Reserved	
D8301	-	1	Reserved	
D8302	-	1	Reserved	
D8303	-	1	CPU Module Ethernet Port 1	IP Settings/DNS
D8304	-	1	CPU Module Ethernet Port 1	IP Address (Writ
D8305	-	1	CPU Module Ethernet Port 1	IP Address (Writ
D8306	-	1	CPU Module Ethernet Port 1	IP Address (Writ
D8307	-	1	CPU Module Ethernet Port 1	IP Address (Writ
D8308	-	1	CPU Module Ethernet Port 1	Subnet Mask (Wri
D8309	-	1	CPU Module Ethernet Port 1	Subnet Mask (Wri
D8310	-	1	CPU Module Ethernet Port 1	Subnet Mask (Wri
D8311	-	1	CPU Module Ethernet Port 1	Subnet Mask (Wri
D8312	-	1	CPU Module Ethernet Port 1	Default Gateway
D8313	-	1	CPU Module Ethernet Port 1	Default Gateway
D8314	-	1	CPU Module Ethernet Port 1	Default Gateway
D8315	-	1	CPU Module Ethernet Port 1	Default Gateway
D8316	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8317	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8318	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8319	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8320	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8321	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8322	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8323	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8324	-	1	CPU Module Ethernet Port 1	MAC Address (Cur
D8325	-	1	CPU Module Ethernet Port 1	MAC Address (Cur
D8326	-	1	CPU Module Ethernet Port 1	MAC Address (Cur
D8327	-	1	CPU Module Ethernet Port 1	MAC Address (Cur
D8328	-	1	CPU Module Ethernet Port 1	MAC Address (Cur
D8329	-	1	CPU Module Ethernet Port 1	MAC Address (Cur
D8330	-	1	CPU Module Ethernet Port 1	IP Address (Curr
D8331	-	1	CPU Module Ethernet Port 1	IP Address (Curr
D8332	-	1	CPU Module Ethernet Port 1	IP Address (Curr
D8333	-	1	CPU Module Ethernet Port 1	IP Address (Curr
D8334	-	1	CPU Module Ethernet Port 1	Subnet Mask (Cur
D8335	-	1	CPU Module Ethernet Port 1	Subnet Mask (Cur
D8336	-	1	CPU Module Ethernet Port 1	Subnet Mask (Cur
D8337	-	1	CPU Module Ethernet Port 1	Subnet Mask (Cur
D8338	-	1	CPU Module Ethernet Port 1	Default Gateway
D8339	-	1	CPU Module Ethernet Port 1	Default Gateway
D8340	-	1	CPU Module Ethernet Port 1	Default Gateway
D8341	-	1	CPU Module Ethernet Port 1	Default Gateway
D8342	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8343	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8344	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8345	-	1	CPU Module Ethernet Port 1	Preferred DNS Se
D8346	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8347	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8348	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8349	-	1	CPU Module Ethernet Port 1	Alternate DNS Se
D8350	-	1	Connection 1	Connected IP Address
D8351	-	1	Connection 1	Connected IP Address

D8352	-	1	Connection 1	Connected	IP Address
D8353	-	1	Connection 1	Connected	IP Address
D8354	-	1	Connection 2	Connected	IP Address
D8355	-	1	Connection 2	Connected	IP Address
D8356	-	1	Connection 2	Connected	IP Address
D8357	-	1	Connection 2	Connected	IP Address
D8358	-	1	Connection 3	Connected	IP Address
D8359	-	1	Connection 3	Connected	IP Address
D8360	-	1	Connection 3	Connected	IP Address
D8361	-	1	Connection 3	Connected	IP Address
D8362	-	1	Connection 4	Connected	IP Address
D8363	-	1	Connection 4	Connected	IP Address
D8364	-	1	Connection 4	Connected	IP Address
D8365	-	1	Connection 4	Connected	IP Address
D8366	-	1	Connection 5	Connected	IP Address
D8367	-	1	Connection 5	Connected	IP Address
D8368	-	1	Connection 5	Connected	IP Address
D8369	-	1	Connection 5	Connected	IP Address
D8370	-	1	Connection 6	Connected	IP Address
D8371	-	1	Connection 6	Connected	IP Address
D8372	-	1	Connection 6	Connected	IP Address
D8373	-	1	Connection 6	Connected	IP Address
D8374	-	1	Connection 7	Connected	IP Address
D8375	-	1	Connection 7	Connected	IP Address
D8376	-	1	Connection 7	Connected	IP Address
D8377	-	1	Connection 7	Connected	IP Address
D8378	-	1	Connection 8	Connected	IP Address
D8379	-	1	Connection 8	Connected	IP Address
D8380	-	1	Connection 8	Connected	IP Address
D8381	-	1	Connection 8	Connected	IP Address
D8382	-	1	HMI Module	MAC Address	(Current Value Read-o
D8383	-	1	HMI Module	MAC Address	(Current Value Read-o
D8384	-	1	HMI Module	MAC Address	(Current Value Read-o
D8385	-	1	HMI Module	MAC Address	(Current Value Read-o
D8386	-	1	HMI Module	MAC Address	(Current Value Read-o
D8387	-	1	HMI Module	MAC Address	(Current Value Read-o
D8388	-	1	HMI Module	IP Address	(Current Value Read-o
D8389	-	1	HMI Module	IP Address	(Current Value Read-o
D8390	-	1	HMI Module	IP Address	(Current Value Read-o
D8391	-	1	HMI Module	IP Address	(Current Value Read-o
D8392	-	1	HMI Module	Subnet Mask	(Current Value Read-o
D8393	-	1	HMI Module	Subnet Mask	(Current Value Read-o
D8394	-	1	HMI Module	Subnet Mask	(Current Value Read-o
D8395	-	1	HMI Module	Subnet Mask	(Current Value Read-o
D8396	-	1	HMI Module	Default Gateway	(Current Value R
D8397	-	1	HMI Module	Default Gateway	(Current Value R
D8398	-	1	HMI Module	Default Gateway	(Current Value R
D8399	-	1	HMI Module	Default Gateway	(Current Value R
D8400	-	1	HMI Module	Preferred DNS Server	(Current Va
D8401	-	1	HMI Module	Preferred DNS Server	(Current Va
D8402	-	1	HMI Module	Preferred DNS Server	(Current Va
D8403	-	1	HMI Module	Preferred DNS Server	(Current Va

D8404	-	1	HMI Module Alternate DNS Server (Current Va
D8405	-	1	HMI Module Alternate DNS Server (Current Va
D8406	-	1	HMI Module Alternate DNS Server (Current Va
D8407	-	1	HMI Module Alternate DNS Server (Current Va
D8408	-	1	Reserved
D8409	-	1	Reserved
D8410	-	1	Reserved
D8411	-	1	Reserved
D8412	-	1	Reserved
D8413	-	1	Time Zone Offset
D8414	-	1	SNTP Operation Status
D8415	-	1	SNTP Access Elapsed Time
D8416	-	1	Reserved
D8417	-	1	Reserved
D8418	-	1	Reserved
D8419	-	1	Reserved
D8420	-	1	Reserved
D8421	-	1	Reserved
D8422	-	1	Reserved
D8423	-	1	Reserved
D8424	-	1	Reserved
D8425	-	1	Reserved
D8426	-	1	Reserved
D8427	-	1	Reserved
D8428	-	1	Reserved
D8429	-	1	HMI Module Connection Information Reference
D8430	-	1	HMI Module Connection Information Reference
D8431	-	1	HMI Module Connection Information Reference
D8432	-	1	HMI Module Connection Information Reference
D8433	-	1	HMI Module Connection Information Reference
D8434	-	1	HMI Module Connection Information Reference
D8435	-	1	Reserved
D8436	-	1	Reserved
D8437	-	1	HMI Module IP Address (Write-only)
D8438	-	1	HMI Module IP Address (Write-only)
D8439	-	1	HMI Module IP Address (Write-only)
D8440	-	1	HMI Module IP Address (Write-only)
D8441	-	1	HMI Module Subnet Mask (Write-only)
D8442	-	1	HMI Module Subnet Mask (Write-only)
D8443	-	1	HMI Module Subnet Mask (Write-only)
D8444	-	1	HMI Module Subnet Mask (Write-only)
D8445	-	1	HMI Module Default Gateway (Write-only)
D8446	-	1	HMI Module Default Gateway (Write-only)
D8447	-	1	HMI Module Default Gateway (Write-only)
D8448	-	1	HMI Module Default Gateway (Write-only)
D8449	-	1	HMI Module Preferred DNS Server (Write-only)
D8450	-	1	HMI Module Preferred DNS Server (Write-only)
D8451	-	1	HMI Module Preferred DNS Server (Write-only)
D8452	-	1	HMI Module Preferred DNS Server (Write-only)
D8453	-	1	HMI Module Alternate DNS Server (Write-only)
D8454	-	1	HMI Module Alternate DNS Server (Write-only)
D8455	-	1	HMI Module Alternate DNS Server (Write-only)

D8456	-	1	HMI Module Alternate DNS Server (Write-only)
D8457	-	1	EMAIL Instruction Detailed Error Information
D8458	-	1	Reserved
D8459	-	1	Reserved
D8460	-	1	Reserved
D8461	-	1	Reserved
D8462	-	1	Reserved
D8463	-	1	Reserved
D8464	-	1	Reserved
D8465	-	1	Reserved
D8466	-	1	Reserved
D8467	-	1	Reserved
D8468	-	1	Reserved
D8469	-	1	Reserved
D8470	-	1	Expansion Module Slot 1 Information (Type I
D8471	-	1	Expansion Module Slot 1 Information (System
D8472	-	1	Expansion Module Slot 2 Information (Type I
D8473	-	1	Expansion Module Slot 2 Information (System
D8474	-	1	Expansion Module Slot 3 Information (Type I
D8475	-	1	Expansion Module Slot 3 Information (System
D8476	-	1	Expansion Module Slot 4 Information (Type I
D8477	-	1	Expansion Module Slot 4 Information (System
D8478	-	1	Expansion Module Slot 5 Information (Type I
D8479	-	1	Expansion Module Slot 5 Information (System
D8480	-	1	Expansion Module Slot 6 Information (Type I
D8481	-	1	Expansion Module Slot 6 Information (System
D8482	-	1	Expansion Module Slot 7 Information (Type I
D8483	-	1	Expansion Module Slot 7 Information (System
D8484	-	1	Expansion Module Slot 8 Information (Type I
D8485	-	1	Expansion Module Slot 8 Information (System
D8486	-	1	Expansion Module Slot 9 Information (Type I
D8487	-	1	Expansion Module Slot 9 Information (System
D8488	-	1	Expansion Module Slot 10 Information (Type
D8489	-	1	Expansion Module Slot 10 Information (Syste
D8490	-	1	Expansion Module Slot 11 Information (Type
D8491	-	1	Expansion Module Slot 11 Information (Syste
D8492	-	1	Expansion Module Slot 12 Information (Type
D8493	-	1	Expansion Module Slot 12 Information (Syste
D8494	-	1	Expansion Module Slot 13 Information (Type
D8495	-	1	Expansion Module Slot 13 Information (Syste
D8496	-	1	Expansion Module Slot 14 Information (Type
D8497	-	1	Expansion Module Slot 14 Information (Syste
D8498	-	1	Expansion Module Slot 15 Information (Type
D8499	-	1	Expansion Module Slot 15 Information (Syste
D8500	-	1	Expansion Module Slot 16 Information (Type
D8501	-	1	Expansion Module Slot 16 Information (Syste
D8502	-	1	Expansion Module Slot 17 Information (Type
D8503	-	1	Expansion Module Slot 17 Information (Syste
D8504	-	1	Expansion Module Slot 18 Information (Type
D8505	-	1	Expansion Module Slot 18 Information (Syste
D8506	-	1	Expansion Module Slot 19 Information (Type
D8507	-	1	Expansion Module Slot 19 Information (Syste

D8508	-	1	Expansion Module Slot 20 Information (Type
D8509	-	1	Expansion Module Slot 20 Information (Syste
D8510	-	1	Expansion Module Slot 21 Information (Type
D8511	-	1	Expansion Module Slot 21 Information (Syste
D8512	-	1	Expansion Module Slot 22 Information (Type
D8513	-	1	Expansion Module Slot 22 Information (Syste
D8514	-	1	Expansion Module Slot 23 Information (Type
D8515	-	1	Expansion Module Slot 23 Information (Syste
D8516	-	1	Expansion Module Slot 24 Information (Type
D8517	-	1	Expansion Module Slot 24 Information (Syste
D8518	-	1	Expansion Module Slot 25 Information (Type
D8519	-	1	Expansion Module Slot 25 Information (Syste
D8520	-	1	Expansion Module Slot 26 Information (Type
D8521	-	1	Expansion Module Slot 26 Information (Syste
D8522	-	1	Expansion Module Slot 27 Information (Type
D8523	-	1	Expansion Module Slot 27 Information (Syste
D8524	-	1	Expansion Module Slot 28 Information (Type
D8525	-	1	Expansion Module Slot 28 Information (Syste
D8526	-	1	Expansion Module Slot 29 Information (Type
D8527	-	1	Expansion Module Slot 29 Information (Syste
D8528	-	1	Expansion Module Slot 30 Information (Type
D8529	-	1	Expansion Module Slot 30 Information (Syste
D8530	-	1	Expansion Module Slot 31 Information (Type
D8531	-	1	Expansion Module Slot 31 Information (Syste
D8532	-	1	Expansion Module Slot 32 Information (Type
D8533	-	1	Expansion Module Slot 32 Information (Syste
D8534	-	1	Expansion Module Slot 33 Information (Type
D8535	-	1	Expansion Module Slot 33 Information (Syste
D8536	-	1	Expansion Module Slot 34 Information (Type
D8537	-	1	Expansion Module Slot 34 Information (Syste
D8538	-	1	Expansion Module Slot 35 Information (Type
D8539	-	1	Expansion Module Slot 35 Information (Syste
D8540	-	1	Expansion Module Slot 36 Information (Type
D8541	-	1	Expansion Module Slot 36 Information (Syste
D8542	-	1	Expansion Module Slot 37 Information (Type
D8543	-	1	Expansion Module Slot 37 Information (Syste
D8544	-	1	Expansion Module Slot 38 Information (Type
D8545	-	1	Expansion Module Slot 38 Information (Syste
D8546	-	1	Expansion Module Slot 39 Information (Type
D8547	-	1	Expansion Module Slot 39 Information (Syste
D8548	-	1	Expansion Module Slot 40 Information (Type
D8549	-	1	Expansion Module Slot 40 Information (Syste
D8550	-	1	Expansion Module Slot 41 Information (Type
D8551	-	1	Expansion Module Slot 41 Information (Syste
D8552	-	1	Expansion Module Slot 42 Information (Type
D8553	-	1	Expansion Module Slot 42 Information (Syste
D8554	-	1	Expansion Module Slot 43 Information (Type
D8555	-	1	Expansion Module Slot 43 Information (Syste
D8556	-	1	Expansion Module Slot 44 Information (Type
D8557	-	1	Expansion Module Slot 44 Information (Syste
D8558	-	1	Expansion Module Slot 45 Information (Type
D8559	-	1	Expansion Module Slot 45 Information (Syste

D8560	-	1	Expansion Module Slot 46 Information (Type
D8561	-	1	Expansion Module Slot 46 Information (Syste
D8562	-	1	Expansion Module Slot 47 Information (Type
D8563	-	1	Expansion Module Slot 47 Information (Syste
D8564	-	1	Expansion Module Slot 48 Information (Type
D8565	-	1	Expansion Module Slot 48 Information (Syste
D8566	-	1	Expansion Module Slot 49 Information (Type
D8567	-	1	Expansion Module Slot 49 Information (Syste
D8568	-	1	Expansion Module Slot 50 Information (Type
D8569	-	1	Expansion Module Slot 50 Information (Syste
D8570	-	1	Expansion Module Slot 51 Information (Type
D8571	-	1	Expansion Module Slot 51 Information (Syste
D8572	-	1	Expansion Module Slot 52 Information (Type
D8573	-	1	Expansion Module Slot 52 Information (Syste
D8574	-	1	Expansion Module Slot 53 Information (Type
D8575	-	1	Expansion Module Slot 53 Information (Syste
D8576	-	1	Expansion Module Slot 54 Information (Type
D8577	-	1	Expansion Module Slot 54 Information (Syste
D8578	-	1	Expansion Module Slot 55 Information (Type
D8579	-	1	Expansion Module Slot 55 Information (Syste
D8580	-	1	Expansion Module Slot 56 Information (Type
D8581	-	1	Expansion Module Slot 56 Information (Syste
D8582	-	1	Expansion Module Slot 57 Information (Type
D8583	-	1	Expansion Module Slot 57 Information (Syste
D8584	-	1	Expansion Module Slot 58 Information (Type
D8585	-	1	Expansion Module Slot 58 Information (Syste
D8586	-	1	Expansion Module Slot 59 Information (Type
D8587	-	1	Expansion Module Slot 59 Information (Syste
D8588	-	1	Expansion Module Slot 60 Information (Type
D8589	-	1	Expansion Module Slot 60 Information (Syste
D8590	-	1	Expansion Module Slot 61 Information (Type
D8591	-	1	Expansion Module Slot 61 Information (Syste
D8592	-	1	Expansion Module Slot 62 Information (Type
D8593	-	1	Expansion Module Slot 62 Information (Syste
D8594	-	1	Expansion Module Slot 63 Information (Type
D8595	-	1	Expansion Module Slot 63 Information (Syste
D8596	-	1	Expansion Interface Remote Master Module Sl
D8597	-	1	Expansion Interface Remote Master Module Sl
D8598	-	1	Expansion Interface Remote Slave Module (No
D8599	-	1	Expansion Interface Remote Slave Module (No
D8600	-	1	Expansion Interface Remote Slave Module (No
D8601	-	1	Expansion Interface Remote Slave Module (No
D8602	-	1	Expansion Interface Remote Slave Module (No
D8603	-	1	Expansion Interface Remote Slave Module (No
D8604	-	1	Expansion Interface Remote Slave Module (No
D8605	-	1	Expansion Interface Remote Slave Module (No
D8606	-	1	Expansion Interface Remote Slave Module (No
D8607	-	1	Expansion Interface Remote Slave Module (No
D8608	-	1	Expansion Interface Remote Slave Module (No
D8609	-	1	Expansion Interface Remote Slave Module (No
D8610	-	1	Expansion Interface Remote Slave Module (No
D8611	-	1	Expansion Interface Remote Slave Module (No



D8612	-	1	Expansion Interface Remote Slave Module (No
D8613	-	1	Expansion Interface Remote Slave Module (No
D8614	-	1	Expansion Interface Remote Slave Module (No
D8615	-	1	Expansion Interface Remote Slave Module (No
D8616	-	1	Expansion Interface Remote Slave Module (No
D8617	-	1	Expansion Interface Remote Slave Module (No
D8618	-	1	Refresh Time of Expansion Interface Remote
D8619	-	1	Refresh Time of Expansion Interface Remote
D8620	-	1	Reserved
D8621	-	1	Reserved
D8622	-	1	Reserved
D8623	-	1	Reserved
D8624	-	1	Reserved
D8625	-	1	Reserved
D8626	-	1	Reserved
D8627	-	1	Reserved
D8628	-	1	Reserved
D8629	-	1	Reserved
D8630	-	1	CPU Module Ethernet Port 2 IP Settings/DNS
D8631	-	1	CPU Module Ethernet Port 2 IP Address (Writ
D8632	-	1	CPU Module Ethernet Port 2 IP Address (Writ
D8633	-	1	CPU Module Ethernet Port 2 IP Address (Writ
D8634	-	1	CPU Module Ethernet Port 2 IP Address (Writ
D8635	-	1	CPU Module Ethernet Port 2 Subnet Mask (Wri
D8636	-	1	CPU Module Ethernet Port 2 Subnet Mask (Wri
D8637	-	1	CPU Module Ethernet Port 2 Subnet Mask (Wri
D8638	-	1	CPU Module Ethernet Port 2 Subnet Mask (Wri
D8639	-	1	CPU Module Ethernet Port 2 Default Gateway
D8640	-	1	CPU Module Ethernet Port 2 Default Gateway
D8641	-	1	CPU Module Ethernet Port 2 Default Gateway
D8642	-	1	CPU Module Ethernet Port 2 Default Gateway
D8643	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8644	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8645	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8646	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8647	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8648	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8649	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8650	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8651	-	1	CPU Module Ethernet Port 2 MAC Address (Cur
D8652	-	1	CPU Module Ethernet Port 2 MAC Address (Cur
D8653	-	1	CPU Module Ethernet Port 2 MAC Address (Cur
D8654	-	1	CPU Module Ethernet Port 2 MAC Address (Cur
D8655	-	1	CPU Module Ethernet Port 2 MAC Address (Cur
D8656	-	1	CPU Module Ethernet Port 2 MAC Address (Cur
D8657	-	1	CPU Module Ethernet Port 2 IP Address (Curr
D8658	-	1	CPU Module Ethernet Port 2 IP Address (Curr
D8659	-	1	CPU Module Ethernet Port 2 IP Address (Curr
D8660	-	1	CPU Module Ethernet Port 2 IP Address (Curr
D8661	-	1	CPU Module Ethernet Port 2 Subnet Mask (Cur
D8662	-	1	CPU Module Ethernet Port 2 Subnet Mask (Cur
D8663	-	1	CPU Module Ethernet Port 2 Subnet Mask (Cur

D8664	-	1	CPU Module Ethernet Port 2 Subnet Mask (Cur
D8665	-	1	CPU Module Ethernet Port 2 Default Gateway
D8666	-	1	CPU Module Ethernet Port 2 Default Gateway
D8667	-	1	CPU Module Ethernet Port 2 Default Gateway
D8668	-	1	CPU Module Ethernet Port 2 Default Gateway
D8669	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8670	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8671	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8672	-	1	CPU Module Ethernet Port 2 Preferred DNS Se
D8673	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8674	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8675	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8676	-	1	CPU Module Ethernet Port 2 Alternate DNS Se
D8677	-	1	Connection 9 Connected IP Address
D8678	-	1	Connection 9 Connected IP Address
D8679	-	1	Connection 9 Connected IP Address
D8680	-	1	Connection 9 Connected IP Address
D8681	-	1	Connection 10 Connected IP Address
D8682	-	1	Connection 10 Connected IP Address
D8683	-	1	Connection 10 Connected IP Address
D8684	-	1	Connection 10 Connected IP Address
D8685	-	1	Connection 11 Connected IP Address
D8686	-	1	Connection 11 Connected IP Address
D8687	-	1	Connection 11 Connected IP Address
D8688	-	1	Connection 11 Connected IP Address
D8689	-	1	Connection 12 Connected IP Address
D8690	-	1	Connection 12 Connected IP Address
D8691	-	1	Connection 12 Connected IP Address
D8692	-	1	Connection 12 Connected IP Address
D8693	-	1	Connection 13 Connected IP Address
D8694	-	1	Connection 13 Connected IP Address
D8695	-	1	Connection 13 Connected IP Address
D8696	-	1	Connection 13 Connected IP Address
D8697	-	1	Connection 14 Connected IP Address
D8698	-	1	Connection 14 Connected IP Address
D8699	-	1	Connection 14 Connected IP Address
D8700	-	1	Connection 14 Connected IP Address
D8701	-	1	Connection 15 Connected IP Address
D8702	-	1	Connection 15 Connected IP Address
D8703	-	1	Connection 15 Connected IP Address
D8704	-	1	Connection 15 Connected IP Address
D8705	-	1	Connection 16 Connected IP Address
D8706	-	1	Connection 16 Connected IP Address
D8707	-	1	Connection 16 Connected IP Address
D8708	-	1	Connection 16 Connected IP Address
D8709	-	1	Reserved
D8710	-	1	Reserved
D8711	-	1	Reserved
D8712	-	1	Reserved
D8713	-	1	Reserved
D8714	-	1	Reserved
D8715	-	1	Reserved

D8716	-	1	Reserved
D8717	-	1	Control Signal Status (Port 10 to 13)
D8718	-	1	RS232C DSR Input Control Signal Option (Port 10 to 13)
D8719	-	1	RS232C DTR Output Control Signal Option (Port 10 to 13)
D8720	-	1	Control Signal Status (Port 14 to 17)
D8721	-	1	RS232C DSR Input Control Signal Option (Port 14 to 17)
D8722	-	1	RS232C DTR Output Control Signal Option (Port 14 to 17)
D8723	-	1	Control Signal Status (Port 18 to 21)
D8724	-	1	RS232C DSR Input Control Signal Option (Port 18 to 21)
D8725	-	1	RS232C DTR Output Control Signal Option (Port 18 to 21)
D8726	-	1	Control Signal Status (Port 22 to 25)
D8727	-	1	RS232C DSR Input Control Signal Option (Port 22 to 25)
D8728	-	1	RS232C DTR Output Control Signal Option (Port 22 to 25)
D8729	-	1	Control Signal Status (Port 26 to 29)
D8730	-	1	RS232C DSR Input Control Signal Option (Port 26 to 29)
D8731	-	1	RS232C DTR Output Control Signal Option (Port 26 to 29)
D8732	-	1	Control Signal Status (Port 30 to 33)
D8733	-	1	RS232C DSR Input Control Signal Option (Port 30 to 33)
D8734	-	1	RS232C DTR Output Control Signal Option (Port 30 to 33)
D8735	-	1	Slave Number (Port 10)
D8736	-	1	Slave Number (Port 11)
D8737	-	1	Slave Number (Port 12)
D8738	-	1	Slave Number (Port 13)
D8739	-	1	Slave Number (Port 14)
D8740	-	1	Slave Number (Port 15)
D8741	-	1	Slave Number (Port 16)
D8742	-	1	Slave Number (Port 17)
D8743	-	1	Slave Number (Port 18)
D8744	-	1	Slave Number (Port 19)
D8745	-	1	Slave Number (Port 20)
D8746	-	1	Slave Number (Port 21)
D8747	-	1	Slave Number (Port 22)
D8748	-	1	Slave Number (Port 23)
D8749	-	1	Slave Number (Port 24)
D8750	-	1	Slave Number (Port 25)
D8751	-	1	Slave Number (Port 26)
D8752	-	1	Slave Number (Port 27)
D8753	-	1	Slave Number (Port 28)
D8754	-	1	Slave Number (Port 29)
D8755	-	1	Slave Number (Port 30)
D8756	-	1	Slave Number (Port 31)
D8757	-	1	Slave Number (Port 32)
D8758	-	1	Slave Number (Port 33)
D8759	-	1	EMAIL Instruction Detailed Error Information
D8760	-	1	Communication Mode Information (Client Connection)
D8761	-	1	Communication Mode Information (Client Connection)
D8762	-	1	Reserved
D8763	-	1	Reserved
D8764	-	1	Reserved
D8765	-	1	Reserved
D8766	-	1	Reserved
D8767	-	1	Reserved

D8768	-	1	Reserved
D8769	-	1	Reserved
D8770	-	1	Reserved
D8771	-	1	Reserved
D8772	-	1	Reserved
D8773	-	1	Reserved
D8774	-	1	Reserved
D8775	-	1	Reserved
D8776	-	1	Reserved
D8777	-	1	Reserved
D8778	-	1	Reserved
D8779	-	1	Reserved
D8780	-	1	Reserved
D8781	-	1	Reserved
D8782	-	1	BACnet Operation Status
D8783	-	1	BACnet Error Information
D8784	-	1	Reserved
D8785	-	1	Reserved
D8786	-	1	Reserved
D8787	-	1	Reserved
D8788	-	1	Reserved
D8789	-	1	Reserved
D8790	-	1	EtherNet/IP Operation Status
D8791	-	1	EtherNet/IP Error Information
D8792	-	1	Reserved
D8793	-	1	Reserved
D8794	-	1	Reserved
D8795	-	1	Reserved
D8796	-	1	Reserved
D8797	-	1	Reserved
D8798	-	1	Reserved
D8799	-	1	Reserved
D8800	-	1	Reserved
D8801	-	1	Reserved
D8802	-	1	Reserved
D8803	-	1	Reserved
D8804	-	1	Reserved
D8805	-	1	Reserved
D8806	-	1	Reserved
D8807	-	1	Reserved
D8808	-	1	Reserved
D8809	-	1	Reserved
D8810	-	1	Reserved
D8811	-	1	Reserved
D8812	-	1	Reserved
D8813	-	1	Reserved
D8814	-	1	Reserved
D8815	-	1	Reserved
D8816	-	1	Reserved
D8817	-	1	Reserved
D8818	-	1	Reserved
D8819	-	1	Reserved

D8820	-	1	Download Files for Server Functions from SD
D8821	-	1	Download Files for Server Functions from SD
D8822	-	1	Web Server Current Connection (Plus CPU Mod
D8823	-	1	Reserved
D8824	-	1	Reserved
D8825	-	1	Reserved
D8826	-	1	Reserved
D8827	-	1	Reserved
D8828	-	1	Reserved
D8829	-	1	Reserved
D8830	-	1	Reserved
D8831	-	1	Reserved
D8832	-	1	Reserved
D8833	-	1	Reserved
D8834	-	1	Reserved
D8835	-	1	Reserved
D8836	-	1	Reserved
D8837	-	1	Reserved
D8838	-	1	Reserved
D8839	-	1	Reserved
D8840	-	1	Reserved
D8841	-	1	Reserved
D8842	-	1	Reserved
D8843	-	1	Reserved
D8844	-	1	Reserved
D8845	-	1	Reserved
D8846	-	1	Reserved
D8847	-	1	Reserved
D8848	-	1	Reserved
D8849	-	1	Reserved
D8850	-	1	Reserved
D8851	-	1	Reserved
D8852	-	1	Reserved
D8853	-	1	Reserved
D8854	-	1	Reserved
D8855	-	1	Reserved
D8856	-	1	Reserved
D8857	-	1	Reserved
D8858	-	1	Reserved
D8859	-	1	Reserved
D8860	-	1	Reserved
D8861	-	1	Reserved
D8862	-	1	Reserved
D8863	-	1	Reserved
D8864	-	1	Reserved
D8865	-	1	Reserved
D8866	-	1	Reserved
D8867	-	1	Reserved
D8868	-	1	Reserved
D8869	-	1	Reserved
D8870	-	1	Reserved
D8871	-	1	Reserved

D8872	-	1	Reserved
D8873	-	1	Reserved
D8874	-	1	Reserved
D8875	-	1	Reserved
D8876	-	1	Reserved
D8877	-	1	Reserved
D8878	-	1	Reserved
D8879	-	1	Reserved
D8880	-	1	Reserved
D8881	-	1	Reserved
D8882	-	1	Reserved
D8883	-	1	Reserved
D8884	-	1	Reserved
D8885	-	1	Reserved
D8886	-	1	Reserved
D8887	-	1	Reserved
D8888	-	1	Reserved
D8889	-	1	Reserved
D8890	-	1	Reserved
D8891	-	1	Reserved
D8892	-	1	Reserved
D8893	-	1	Reserved
D8894	-	1	Reserved
D8895	-	1	Reserved
D8896	-	1	Reserved
D8897	-	1	Reserved
D8898	-	1	Reserved
D8899	-	1	Reserved
I0000	E_Stop	11	Normally Closed
M0000	Start	2	HMI Start Button
M0001	Stop	3	HMI Stop Button
M0002	Cycle	19	Cycle
M0003	Hum_engage_epic	1	Hum_engage_epic
M0004	CoolCall	3	
M0005	FloorCall	4	
M0006	HumCall	3	
M0007	Big_Hum_engage_epic	5	Big_Hum_engage_epic
M0010	DefrostCall	5	
M0011	Manual_humidifier	2	Manual_humidifier
M0012	HtOnPIDInt	2	
M0016	-	2	Freeze Enable
M0017	-	2	Freeze Monitor
M0020	Big_humidifier_init	2	Big_humidifier_init
M0024	MasterAlarm	1	
M0025	HMIHTisON	1	HMI Heat On
M0026	PVGtrSP	2	PV>SP
M0027	HTDis1stOn	7	HT Dsable 1st on
M0031	PVlsEqSP	2	PV<=SP
M0100	PIDMomDisabl	2	PID momentary disable
M0102	SPtoPVDltaGr	3	SP to PV delta greater than 10
M0103	SPtoPVDltaLs	2	SP to PV delta less than 9
M0104	PIDRstdlyl	2	PID reset delay 1

M0105	PIDRstdly2	2	PID reset delay 2
M0110	HtrFnOffDly	6	Heater Fan off Delay
M0111	HMIStpLtch	3	HMI Stop latching bit
M0112	HTOffWFnCl	2	Heater Delay off While fans are called
M0200	-	1	TmpDev>3
M0201	-	1	TmpDev>6
M0300	-	1	Control Action
M0301	-	1	Manual Mode Select
M0302	-	1	Auto Mode Select
M0303	-	1	Cascade Control Mode Select
M0304	-	1	Manual Mode Active
M0305	-	1	Auto Mode Active
M0306	-	1	Cascade Control Mode Active
M0307	-	1	PV Tracking
M0310	-	1	Kp Dependent
M0311	-	1	Derivative
M0312	-	1	Derivative Decay
M0313	-	1	PID Inhibit
M0314	-	1	PID Control Inhibit Monitor
M0315	-	1	Derivative Action Execution Monitor
M0316	-	5	Control Output (Output Manipulated Variable)
M0317	-	1	Self Tuning Enabled/Disabled
M0320	-	1	Self Tuning Gain Update
M0321	-	1	Self Tuning Executing
M0322	-	1	Reserved
M0323	-	1	Reserved
M0324	-	1	Reserved
M0325	-	1	Reserved
M0326	-	1	Reserved
M0327	-	1	Reserved
M0330	-	1	Reserved
M0331	-	1	Reserved
M0332	-	1	Reserved
M0333	-	1	Reserved
M0334	-	1	Reserved
M0335	-	1	Reserved
M0336	-	1	Reserved
M0337	-	1	Reserved
M7000	MQTT_Con	2	MQTT connection Bit
M7001	MQTT_Pub	2	MQTT Publish Bit
M7010	MQTComOK	1	MQTT Coms to Broker OK
M8000	-	1	Start Control
M8001	-	1	1-s Clock Reset
M8002	-	1	All Outputs OFF
M8003	-	5	Carry (Cy) or Borrow (Bw)
M8004	-	1	User Program Execution Error
M8005	-	1	Communication Error
M8006	-	1	Communication Prohibited Flag (When Data Li
M8007	-	1	Initialization Flag (When Data Link Master)
M8010	-	1	Status LED Operation
M8011	-	1	Reserved
M8012	-	1	Reserved

M8013	-	1	Calendar/Clock Data Write/Adjust Error Flag
M8014	-	1	Calendar/Clock Data Read Error Flag
M8015	-	1	Reserved
M8016	-	1	Calendar Data Write Flag
M8017	-	1	Clock Data Write Flag
M8020	-	1	Calendar/Clock Data Write Flag
M8021	-	1	Clock Data Adjust Flag
M8022	-	1	User Communication Receive Instruction Cancel
M8023	-	1	User Communication Receive Instruction Cancel
M8024	-	1	BMOV/WSFT Executing Flag
M8025	-	1	Maintain Outputs While Stopped
M8026	-	1	User Communication Receive Instruction Cancel
M8027	-	1	High-speed Counter (Group 1/I0) Count Direction
M8030	-	1	High-speed Counter (Group 1/I0) Comparison
M8031	-	1	High-speed Counter (Group 1/I0) Gate Input
M8032	-	1	High-speed Counter (Group 1/I0) Reset Input
M8033	-	1	User Communication Receive Instruction Cancel
M8034	-	1	High-speed Counter (Group 3/I3) Comparison
M8035	-	1	High-speed Counter (Group 3/I3) Gate Input
M8036	-	1	High-speed Counter (Group 3/I3) Reset Input
M8037	-	1	Reserved
M8040	-	1	High-speed Counter (Group 4/I4) Comparison
M8041	-	1	High-speed Counter (Group 4/I4) Gate Input
M8042	-	1	High-speed Counter (Group 4/I4) Reset Input
M8043	-	1	High-speed Counter (Group 5/I6) Count Direction
M8044	-	1	High-speed Counter (Group 5/I6) Comparison
M8045	-	1	High-speed Counter (Group 5/I6) Gate Input
M8046	-	1	High-speed Counter (Group 5/I6) Reset Input
M8047	-	1	Reserved
M8050	-	1	Reserved
M8051	-	1	High-speed Counter (Group 2/I1) Comparison
M8052	-	1	High-speed Counter (Group 2/I1) Gate Input
M8053	-	1	High-speed Counter (Group 2/I1) Reset Input
M8054	-	1	High-speed Counter (Group 2/I1) Comparison
M8055	-	1	High-speed Counter (Group 2/I1) Overflow
M8056	-	1	Reserved
M8057	-	1	High-speed Counter (Group 6/I7) Comparison
M8060	-	1	High-speed Counter (Group 6/I7) Gate Input
M8061	-	1	High-speed Counter (Group 6/I7) Reset Input
M8062	-	1	High-speed Counter (Group 6/I7) Comparison
M8063	-	1	High-speed Counter (Group 6/I7) Overflow
M8064	-	1	Reserved
M8065	-	1	Reserved
M8066	-	1	Reserved
M8067	-	1	Reserved
M8070	-	1	SD Memory Card Mount Status
M8071	-	1	Accessing SD Memory Card
M8072	-	1	Unmount SD Memory Card
M8073	-	1	Function Switch Status
M8074	-	1	Battery Voltage Measurement Flag
M8075	-	1	Reserved
M8076	-	1	Reserved



M8077	-	1	Reserved
M8080	-	1	Data Link Slave 1 Communication Completed R
M8081	-	1	Data Link Slave 2 Communication Completed R
M8082	-	1	Data Link Slave 3 Communication Completed R
M8083	-	1	Data Link Slave 4 Communication Completed R
M8084	-	1	Data Link Slave 5 Communication Completed R
M8085	-	1	Data Link Slave 6 Communication Completed R
M8086	-	1	Data Link Slave 7 Communication Completed R
M8087	-	1	Data Link Slave 8 Communication Completed R
M8090	-	1	Data Link Slave 9 Communication Completed R
M8091	-	1	Data Link Slave 10 Communication Completed
M8092	-	1	Data Link Slave 11 Communication Completed
M8093	-	1	Data Link Slave 12 Communication Completed
M8094	-	1	Data Link Slave 13 Communication Completed
M8095	-	1	Data Link Slave 14 Communication Completed
M8096	-	1	Data Link Slave 15 Communication Completed
M8097	-	1	Data Link Slave 16 Communication Completed
M8100	-	1	Data Link Slave 17 Communication Completed
M8101	-	1	Data Link Slave 18 Communication Completed
M8102	-	1	Data Link Slave 19 Communication Completed
M8103	-	1	Data Link Slave 20 Communication Completed
M8104	-	1	Data Link Slave 21 Communication Completed
M8105	-	1	Data Link Slave 22 Communication Completed
M8106	-	1	Data Link Slave 23 Communication Completed
M8107	-	1	Data Link Slave 24 Communication Completed
M8110	-	1	Data Link Slave 25 Communication Completed
M8111	-	1	Data Link Slave 26 Communication Completed
M8112	-	1	Data Link Slave 27 Communication Completed
M8113	-	1	Data Link Slave 28 Communication Completed
M8114	-	1	Data Link Slave 29 Communication Completed
M8115	-	1	Data Link Slave 30 Communication Completed
M8116	-	1	Data Link Slave 31 Communication Completed
M8117	-	1	Data Link All Slaves Communication Complete
M8120	-	1	Initialize Pulse
M8121	-	1	1-s Clock
M8122	-	1	100-ms Clock
M8123	-	1	10-ms Clock
M8124	-	1	Timer/Counter Preset Value Changed
M8125	-	66	In-operation Output
M8126	-	1	1 Scan ON After Run-Time Download Completes
M8127	-	1	Reserved
M8130	-	1	High-speed Counter (Group 1/I0) Reset Statu
M8131	-	1	High-speed Counter (Group 1/I0) Comparison
M8132	-	1	Reserved
M8133	-	1	High-speed Counter (Group 3/I3) Comparison
M8134	-	1	High-speed Counter (Group 4/I4) Comparison
M8135	-	1	High-speed Counter (Group 5/I6) Reset Statu
M8136	-	1	High-speed Counter (Group 5/I6) Comparison
M8137	-	1	Interrupt Input I0 Status (Group 1/I0) (ON:
M8140	-	1	Interrupt Input I1 Status (Group 2/I1) (ON:
M8141	-	1	Interrupt Input I3 Status (Group 3/I3) (ON:
M8142	-	1	Interrupt Input I4 Status (Group 4/I4) (ON:

M8143	-	1	Interrupt Input I6 Status (Group 5/I6) (ON: Rising Edge, OFF: Falling Edge)
M8144	-	1	Timer Interrupt Status
M8145	-	1	User Communication Receive Instruction Cancel Flag
M8146	-	1	User Communication Receive Instruction Cancel Flag
M8147	-	1	User Communication Receive Instruction Cancel Flag
M8150	-	8	Comparison Result 1
M8151	-	8	Comparison Result 2
M8152	-	8	Comparison Result 3
M8153	-	1	Catch Input ON/OFF Status (Group 1/I0)
M8154	-	1	Catch Input ON/OFF Status (Group 2/I1)
M8155	-	1	Catch Input ON/OFF Status (Group 3/I3)
M8156	-	1	Catch Input ON/OFF Status (Group 4/I4)
M8157	-	1	Catch Input ON/OFF Status (Group 5/I6)
M8160	-	1	Catch Input ON/OFF Status (Group 6/I7)
M8161	-	1	High-speed Counter (Group 1/I0) (Overflow)
M8162	-	1	High-speed Counter (Group 1/I0) (Underflow)
M8163	-	1	High-speed Counter (Group 5/I6) (Overflow)
M8164	-	1	High-speed Counter (Group 5/I6) (Underflow)
M8165	-	1	High-speed Counter (Group 3/I3) (Overflow)
M8166	-	1	High-speed Counter (Group 4/I4) (Overflow)
M8167	-	1	Interrupt Input I7 Status (Group 6/I7) (ON: Rising Edge, OFF: Falling Edge)
M8170	-	1	User Communication Receive Instruction Cancel Flag
M8171	-	1	Reserved
M8172	-	1	Transistor Source Output Overcurrent Detect Flag
M8173	-	1	Transistor Source Output Overcurrent Detect Flag
M8174	-	1	Transistor Source Output Overcurrent Detect Flag
M8175	-	1	Transistor Source Output Overcurrent Detect Flag
M8176	-	1	User Communication Receive Instruction Cancel Flag
M8177	-	1	Reserved
M8180	-	1	Reserved
M8181	-	1	Reserved
M8182	-	1	Reserved
M8183	-	1	Reserved
M8184	-	1	Change HMI Module Network Settings Trigger
M8185	-	1	In Daylight Saving Time Period
M8186	-	1	Ethernet Port 1 Executing Auto Ping
M8187	-	1	Ethernet Port 1 Auto Ping Stop Flag
M8190	-	1	Change CPU Module Ethernet Port 1 Network Settings
M8191	-	1	SNTP Acquisition Flag
M8192	-	1	Interrupt Input I0 Edge (On: Rising Edge, OFF: Falling Edge)
M8193	-	1	Interrupt Input I3 Edge (On: Rising Edge, OFF: Falling Edge)
M8194	-	1	Interrupt Input I4 Edge (On: Rising Edge, OFF: Falling Edge)
M8195	-	1	Interrupt Input I6 Edge (On: Rising Edge, OFF: Falling Edge)
M8196	-	1	Interrupt Input I7 Edge (On: Rising Edge, OFF: Falling Edge)
M8197	-	1	Interrupt Input I1 Edge (On: Rising Edge, OFF: Falling Edge)
M8200	-	1	User Communication Receive Instruction Cancel Flag
M8201	-	1	User Communication Receive Instruction Cancel Flag
M8202	-	1	User Communication Receive Instruction Cancel Flag
M8203	-	1	User Communication Receive Instruction Cancel Flag
M8204	-	1	User Communication Receive Instruction Cancel Flag
M8205	-	1	User Communication Receive Instruction Cancel Flag
M8206	-	1	User Communication Receive Instruction Cancel Flag

M8207	-	1	User Communication Receive Instruction Cancel
M8210	-	1	Reserved
M8211	-	1	HMI Module Send E-mail Server Settings Initial
M8212	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8213	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8214	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8215	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8216	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8217	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8220	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8221	-	1	Connection Status (ON: Connected, OFF: Not Connected)
M8222	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8223	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8224	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8225	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8226	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8227	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8230	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8231	-	1	Disconnect User Communication Connection (ON: Connected, OFF: Not Connected)
M8232	-	1	HMI Module Connection Information Reference
M8233	-	1	Reserved
M8234	-	1	Reserved
M8235	-	1	Reserved
M8236	-	1	Reserved
M8237	-	1	Reserved
M8240	-	1	Reserved
M8241	-	1	Reserved
M8242	-	1	Reserved
M8243	-	1	Reserved
M8244	-	1	Reserved
M8245	-	1	Reserved
M8246	-	1	Reserved
M8247	-	1	Reserved
M8250	-	1	Download from SD Memory Card Execution Flag
M8251	-	1	Upload to SD Memory Card Execution Flag
M8252	-	1	Executing SD Memory Card Download
M8253	-	1	Executing SD Memory Card Upload
M8254	-	1	SD Memory Card Download/Upload Execution Complete
M8255	-	1	SD Memory Card Download/Upload Execution Error
M8256	-	1	Reserved
M8257	-	1	Reserved
M8260	-	1	Write Recipe Execution Flag
M8261	-	1	Read Recipe Execution Flag
M8262	-	1	Executing Write Recipe
M8263	-	1	Executing Read Recipe
M8264	-	1	Recipe Channel Execution Completed Output
M8265	-	1	Recipe Execution Error Output
M8266	-	1	Recipe Block Execution Completed Output
M8267	-	1	Read Restriction for Recipe Internal Memory
M8270	-	1	Reserved
M8271	-	1	Download MQTT Basic Settings from SD Memory Card
M8272	-	1	Download MQTT Basic Settings from SD Memory Card

M8273	-	1	Download MQTT Basic Settings from SD Memory
M8274	-	1	Reserved
M8275	-	1	Reserved
M8276	-	1	Reserved
M8277	-	1	Reserved
M8280	-	1	Reserved
M8281	-	1	Reserved
M8282	-	1	Reserved
M8283	-	1	Reserved
M8284	-	1	Reserved
M8285	-	1	Reserved
M8286	-	1	Reserved
M8287	-	1	Reserved
M8290	-	1	Reserved
M8291	-	1	Reserved
M8292	-	1	Reserved
M8293	-	1	Reserved
M8294	-	1	Reserved
M8295	-	1	Reserved
M8296	-	1	Reserved
M8297	-	1	Reserved
M8300	-	1	J1939 Communication Permitted Flag
M8301	-	1	J1939 Online Status
M8302	-	1	J1939 Local Station Address Confirmation St
M8303	-	1	J1939 Communication Error Output
M8304	-	1	J1939 Communication Bus Off Occurrence Outp
M8305	-	1	Reserved
M8306	-	1	Reserved
M8307	-	1	Reserved
M8310	-	1	Reserved
M8311	-	1	ESC+Key Input (Up)
M8312	-	1	ESC+Key Input (Down)
M8313	-	1	ESC+Key Input (Left)
M8314	-	1	ESC+Key Input (Right)
M8315	-	1	Reserved
M8316	-	1	Reserved
M8317	-	1	Reserved
M8320	-	1	Initialize Expansion Interface Remote Maste
M8321	-	1	Reserved
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M8331	-	1	Ethernet Port 2 Executing Auto Ping
M8332	-	1	Ethernet Port 2 Auto Ping Stop Flag
M8333	-	1	Change CPU Module Ethernet Port 2 Network S
M8334	-	1	User Communication Receive Instruction Canc
M8335	-	1	User Communication Receive Instruction Canc
M8336	-	1	User Communication Receive Instruction Canc

M8337	-	1	User Communication Receive Instruction Canc
M8340	-	1	User Communication Receive Instruction Canc
M8341	-	1	User Communication Receive Instruction Canc
M8342	-	1	User Communication Receive Instruction Canc
M8343	-	1	User Communication Receive Instruction Canc
M8344	-	1	Ethernet Port 1 Send E-mail Server Settings
M8345	-	1	Connection Status (ON: Connected, OFF: Not
M8346	-	1	Connection Status (ON: Connected, OFF: Not
M8347	-	1	Connection Status (ON: Connected, OFF: Not
M8350	-	1	Connection Status (ON: Connected, OFF: Not
M8351	-	1	Connection Status (ON: Connected, OFF: Not
M8352	-	1	Connection Status (ON: Connected, OFF: Not
M8353	-	1	Connection Status (ON: Connected, OFF: Not
M8354	-	1	Connection Status (ON: Connected, OFF: Not
M8355	-	1	Disconnect User Communication Connection (C
M8356	-	1	Disconnect User Communication Connection (C
M8357	-	1	Disconnect User Communication Connection (C
M8360	-	1	Disconnect User Communication Connection (C
M8361	-	1	Disconnect User Communication Connection (C
M8362	-	1	Disconnect User Communication Connection (C
M8363	-	1	Disconnect User Communication Connection (C
M8364	-	1	Disconnect User Communication Connection (C
M8365	-	1	User Communication Receive Instruction Canc
M8366	-	1	User Communication Receive Instruction Canc
M8367	-	1	User Communication Receive Instruction Canc
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M8401	-	1	Download Files for Server Functions from SD
M8402	-	1	Download Files for Server Functions from SD

M8403	-	1	Download Files for Server Functions from SD
M8404	-	1	Plus CPU Module Web Server Operation Status
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M8600	-	1	High-speed Counter (Group 3/I3) Reset Statu
M8601	-	1	High-speed Counter (Group 3/I3) Underflow
M8602	-	1	High-speed Counter (Group 3/I3) Count Direco
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M9981	-	1	Reserved
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M9983	-	1	Reserved
M9984	-	1	Reserved
M9985	-	1	Reserved
M9986	-	1	Reserved
M9987	-	1	Reserved
M9990	-	1	Reserved
M9991	-	1	Reserved
M9992	-	1	Reserved
M9993	-	1	Reserved
M9994	-	1	Reserved
M9995	-	1	Reserved
M9996	-	1	Reserved
M9997	-	1	Reserved
Q0000	HeatFanOutput	4	Heater Fans Contactor Call
Q0001	EvapFansOutput	2	Evap Fans HW output
Q0002	EvapDefrostOutput	2	Evap Defrost HW Output
Q0003	SolOutput	2	
Q0004	HumOutput	2	
Q0005	FloorHeatOutput	2	Floor Heat HW output
Q0006	GasHeatEnable	1	Gas Heat Enable Contacts
Q0007	UnitSafteyOutput	2	
Q0030	HumEnable	2	
Q0031	SSR_Heat_S1	3	SSR 1 Heat HW Output
Q0032	SSR_Heat_S2	2	SSR 2 Heat HW Output
Q0033	SSR_Heat_S3	2	SSR 3 Heat HW Output
Q0034	SSR_Heat_S4	2	SSR \$ Heat HW Output
T0000	-	1	PID Init Timer
T0001	-	1	HMI Heat on indicator
T0003	HtrFnOfDly	1	Heater Fan Off Delay
T0019	-	1	Hum Off Delay
T0021	-	1	Estop Dbounce
T0200	MQTPubTmr	2	MQTT Publish Timer

<<Module Configuration>>



<<Figure>>

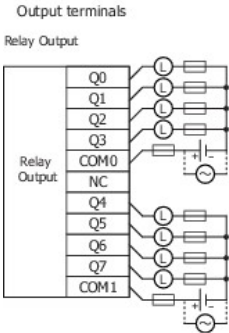
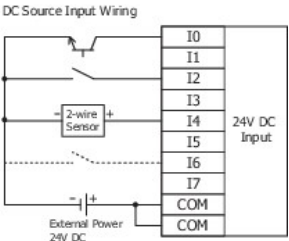
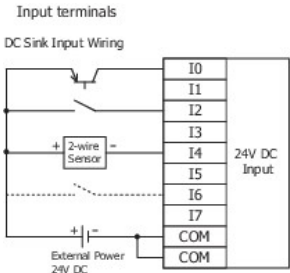


Type No.	FC6A-D16R1CEE		
Rated Power Voltage	24V DC		
I/O Expansion	7		
I/O Points	Expansion Interface	Input	8
		Output	8
	Basic Expansion	Input	224
		Output	256

<<Parameters>>

Device Address	Tag Name	Comment	Used
I0000	E Stop	Normally Closed	5
I0001			0
I0002			0
I0003			0
I0004			0
I0005			0
I0006			0
I0007			0
Q0000	HeatFanOutput	Heater Fans Contactor Call	3
Q0001	EvapFansOutput	Evap Fans HW output	1
Q0002	EvapDefrostOutput	Evap Defrost HW Output	1
Q0003	SolOutput		1
Q0004	HumOutput		1
Q0005	FloorHeatOutput	Floor Heat HW output	1
Q0006	GasHeatEnable	Gas Heat Enable Contacts	1
Q0007	UnitSafetyOutput		1

<<Connection Diagram>>



<<Module Configuration>>



<<Figure>>

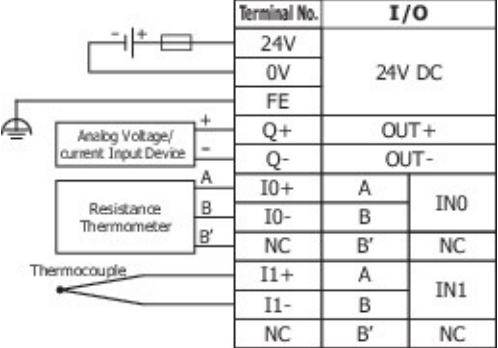


Type No.	FC6A-L03CN1
Type	Analog mixed I/O module
Terminal	Removable screw terminal
Number of inputs	2
Input range (Voltage/Current)	+/-10V, 0-10V, 0-20mA, 4-20mA
Input range (RTD)	NI100, NI1000, PT100, PT1000
Input range (Thermocouple)	J, K, R, S, B, T, N, E, C
Number of outputs	1
Output range	+/-10V, 0-10V, 0-20mA, 4-20mA
Internal Current Draw	60mA (5V), 0mA (24V)
Lateral dimension	23.6mm

<<Parameters>>

Channel	Filter	Signal Type	Data Format	Min.	Max.
AI0	0	Pt 100	Fahrenheit (°F)	-3280	15620
AI1		Unused			
AQ0	0	0 to 10V DC	Optional range	0	100

<<Connection Diagram>>





<<Module Configuration>>



<<Figure>>

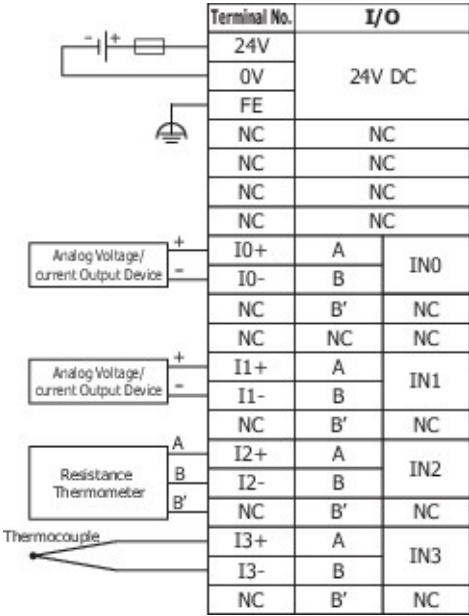


Type No.	FC6A-J4CN1
Type	Analog input module
Terminal	Removable screw terminal
Number of inputs	4
Input range (Voltage/Current)	+/-10V, 0-10V, 0-20mA, 4-20mA
Input range (RTD)	NI100, NI1000, PT100, PT1000
Input range (Thermocouple)	J, K, R, S, B, T, N, E, C
Number of outputs	-
Output range	-
Internal Current Draw	50mA (5V), 0mA (24V)
External dimension	23.6mm

<<Parameters>>

Channel	Filter	Signal Type	Data Format	Min.	Max.
AI0	0	Type T	Fahrenheit (°F)	-3280	7520
AI1	0	Pt 100	Fahrenheit (°F)	-3280	15620
AI2	0	4 to 20mA DC	Optional range	0	79
AI3	0	4 to 20mA DC	Optional range	0	79

<<Connection Diagram>>



<<Module Configuration>>



<<Figure>>



Type No.	FC6A-SIF52
Terminal	Removable screw terminal
Communication mode	RS232C/RS485 selectable
Internal Current Draw	35mA (5V) , 35mA (24V)
Lateral dimension	23.6mm

<<Parameters>>

Port	Communication Mode	Comm. Param.	Slave No.	Interface
4	Modbus RTU Master	9600-8-Even-1	(not necessary)	RS485
5	Modbus RTU Master	19200-8-Even-1	(not necessary)	RS485

<<Connection Diagram>>

Top Ports		RS232C	Terminal No.	I/O	Signal Name
			RS1(RTS)	Output	Request to send
			ER1(DTR)	Output	Data terminal ready
			SD1(TxD)	Output	Transmitted data
			RD1(RxD)	Input	Received data
			DR1(DSR)	Input	Data set ready
		RS485	SG1	—	Signal ground
			NC	—	—
			A1	Input/output	Data A
			B1	Input/output	Data B
Bottom Ports		RS232C	Terminal No.	I/O	Signal Name
			RS2(RTS)	Output	Request to send
			ER2(DTR)	Output	Data terminal ready
			SD2(TxD)	Output	Transmitted data
			RD2(RxD)	Input	Received data
			DR2(DSR)	Input	Data set ready
		RS485	SG2	—	Signal ground
			NC	—	—
			A2	Input/output	Data A
			B2	Input/output	Data B
			SG2	—	Signal ground

<<Module Configuration>>



<<Figure>>

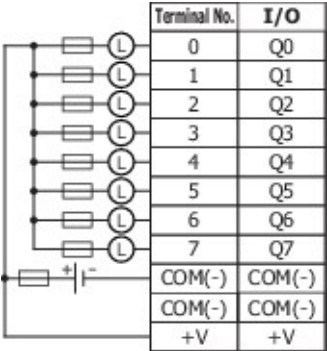


Type No.	FC6A-T08K1
Type	Transistor sink output module
Terminal	Removable screw terminal
Number of inputs	-
Number of outputs	8
Rated I/O	12/24VDC
Internal Current Draw	25mA (5V), 15mA (24V)
Lateral dimension	23.6mm

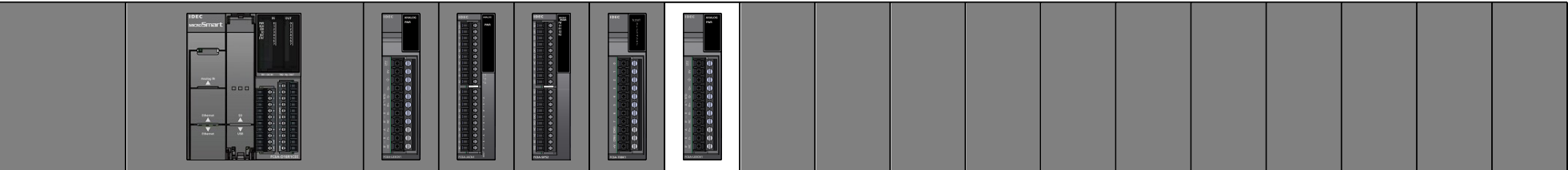
<<Parameters>>

Device Address	Tag Name	Comment	Used
Q0030	HumEnable		1
Q0031	SSR Heat S1	SSR 1 Heat HW Output	2
Q0032	SSR Heat S2	SSR 2 Heat HW Output	2
Q0033	SSR Heat S3	SSR 3 Heat HW Output	2
Q0034	SSR Heat S4	SSR 4 Heat HW Output	2
Q0035			0
Q0036			0
Q0037			0

<<Connection Diagram>>



<<Module Configuration>>



<<Figure>>



Type No.	FC6A-L03CN1
Type	Analog mixed I/O module
Terminal	Removable screw terminal
Number of inputs	2
Input range (Voltage/Current)	+/-10V, 0-10V, 0-20mA, 4-20mA
Input range (RTD)	NI100, NI1000, PT100, PT1000
Input range (Thermocouple)	J, K, R, S, B, T, N, E, C
Number of outputs	1
Output range	+/-10V, 0-10V, 0-20mA, 4-20mA
Internal Current Draw	60mA (5V), 0mA (24V)
External dimension	23.6mm

<<Parameters>>

Channel	Filter	Signal Type	Data Format	Min.	Max.
AI0	0	Pt 100	Fahrenheit (°F)	-3280	15620
AI1		Unused			
AQ0	0	0 to 10V DC	Optional range	0	100

<<Connection Diagram>>

