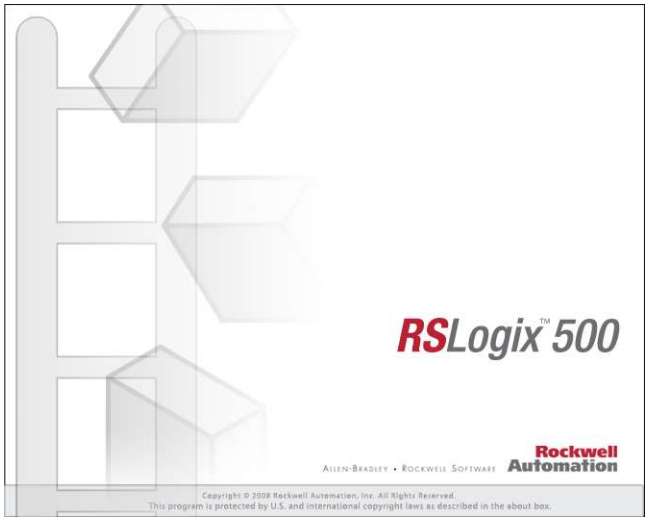
RSLogix Micro Project Report



Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 673 Instruction Words Used - 159 Data Table Words Used

Total Memory Left: 5983 Instruction Words Left

Program Files: 10

Data Files: 10

Program ID: 6e38

I/O Configuration

0	Bul.1763	MicroLogix 1100 Series B
1	1762-IQ16	16-Input 10/30 VDC
2	1762-OW16	16-Output (RLY) 240 VAC
3	1762-IF4	Analog 4 Chan. Input
4	1762-OF4	4-Channel Analog I/V Output Module

Channel Configuration

CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex
CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Edit Resource/Owner Timeout: 60
CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Passthru Link ID: 1
CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Write Protected: No
CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Comms Servicing Selection: Yes
CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex Message Servicing Selection: Yes
CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex 1st AWA Append Character: \d
CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex 2nd AWA Append Character: \a

Source ID: 1 (decimal)
Baud: 19200
Parity: NONE
Control Line : No Handshaking
Error Detection: CRC
Embedded Responses: Auto Detect
Duplicate Packet Detect: Yes
ACK Timeout(x20 ms): 50
NAK Retries: 3
ENQ Retries: 3

CHANNEL 1 (SYSTEM) - Driver: Ethernet
CHANNEL 1 (SYSTEM) - Driver: Ethernet Edit Resource/Owner Timeout: 60
CHANNEL 1 (SYSTEM) - Driver: Ethernet Passthru Link ID: 1
CHANNEL 1 (SYSTEM) - Driver: Ethernet Write Protected: No
CHANNEL 1 (SYSTEM) - Driver: Ethernet Comms Servicing Selection: Yes
CHANNEL 1 (SYSTEM) - Driver: Ethernet Message Servicing Selection: Yes

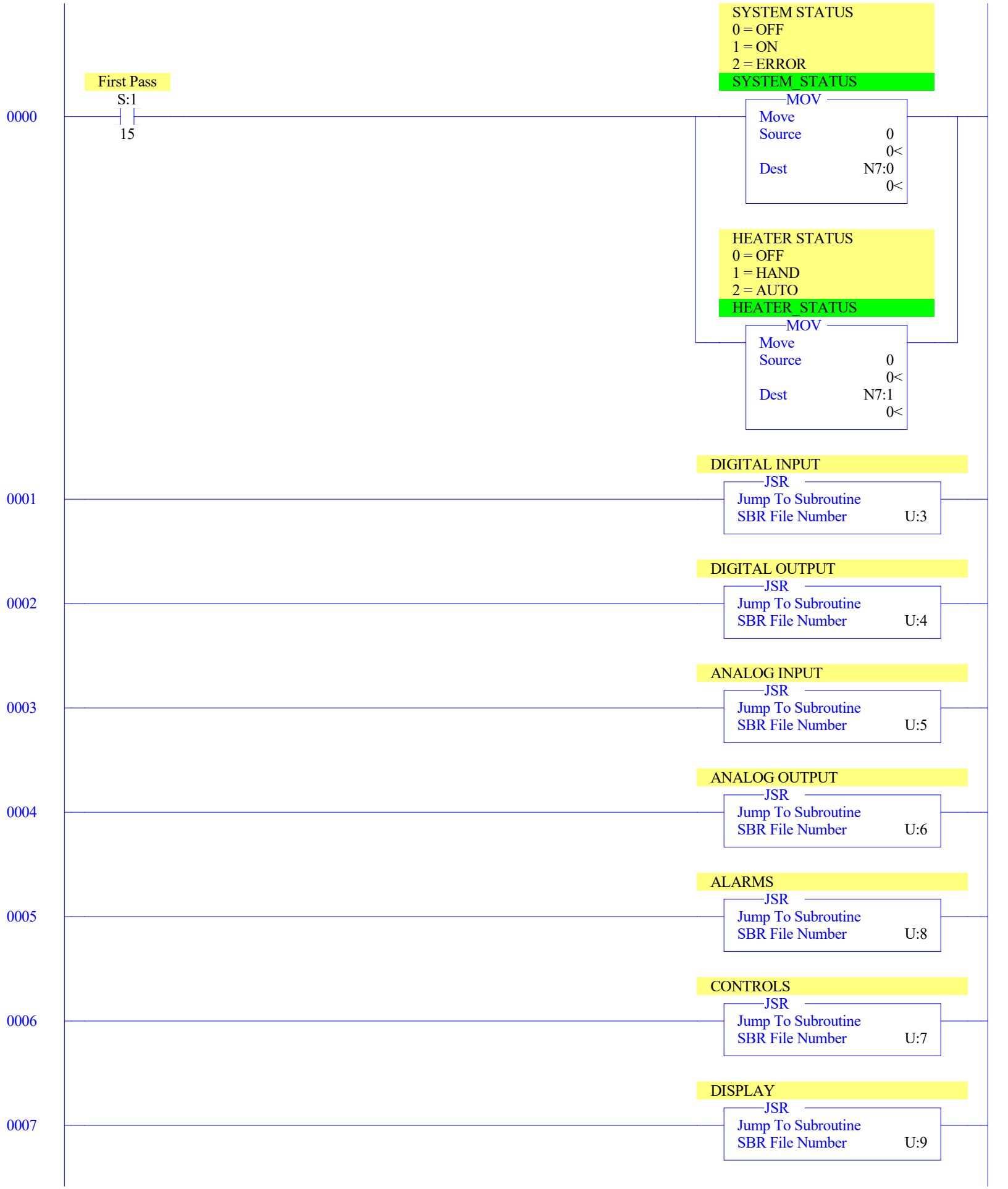
Hardware Address: 00:00:00:00:00:00
IP Address: 0.0.0.0
Subnet Mask: 0.0.0.0
Gateway Address: 0.0.0.0
Msg Connection Timeout (x 1mS): 15000
Msg Reply Timeout (x mS): 3000
Inactivity Timeout (x Min): 30
Bootp Enable: Yes
Dhcp Enable No
SNMP Enable: No
HTTP Enable: Yes
Auto Negotiate Enable: Yes
Port Speed Enable: 10/100 Mbps Full Duplex/Half Duplex
Contact:
Location:

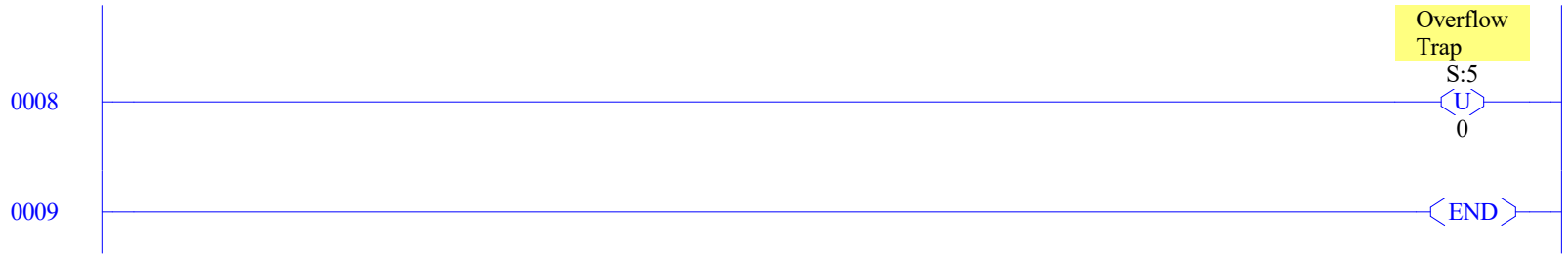
Program File List

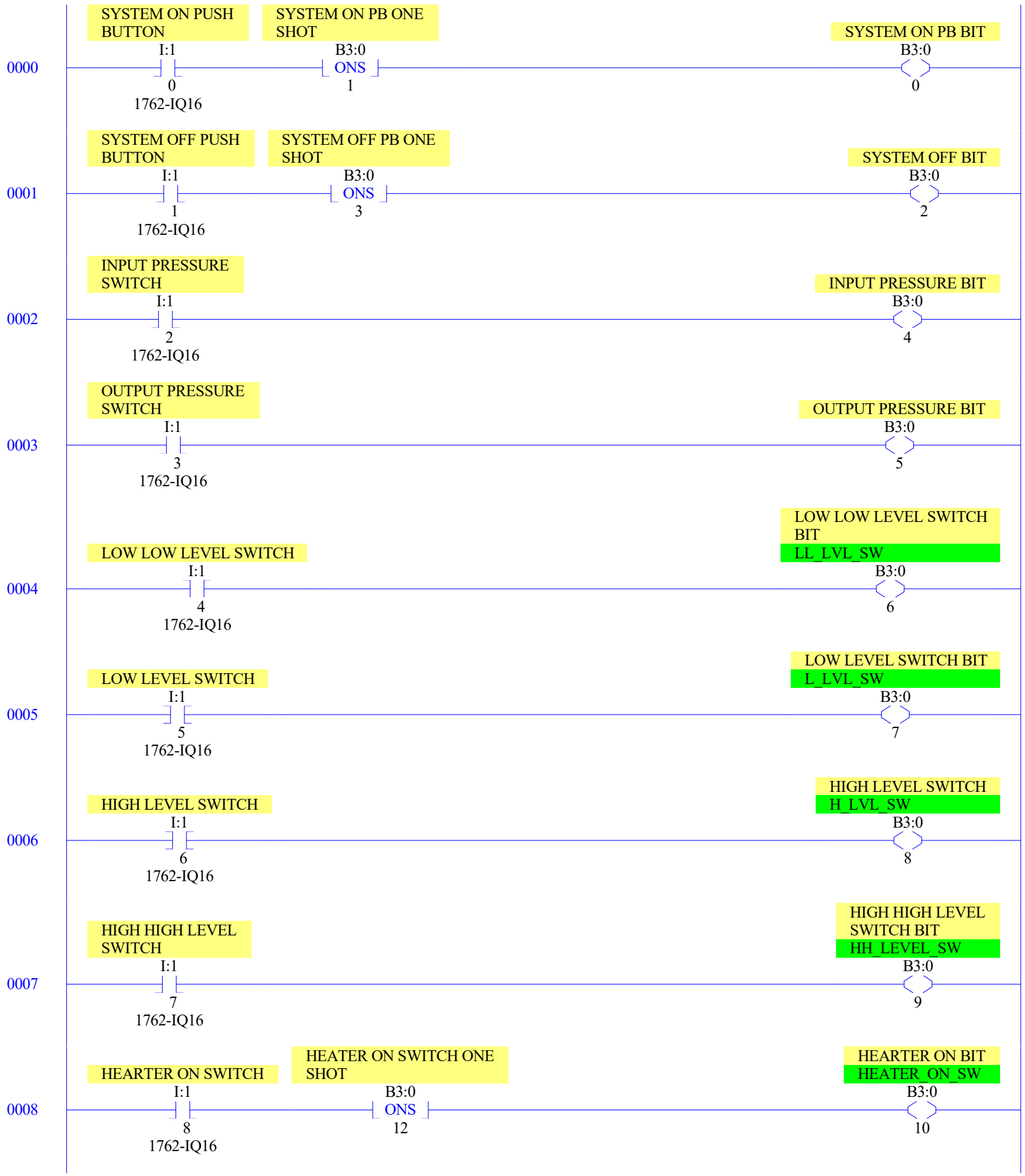
Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	10	No	116
DIGI IN	3	LADDER	11	No	191
DIGI OUT	4	LADDER	4	No	51
ANALOG IN	5	LADDER	5	No	475
ANALOG OUT	6	LADDER	2	No	121
CONTROLS	7	LADDER	15	No	861
ALARMS	8	LADDER	28	No	1337
DISPLAY	9	LADDER	2	No	42

Data File List

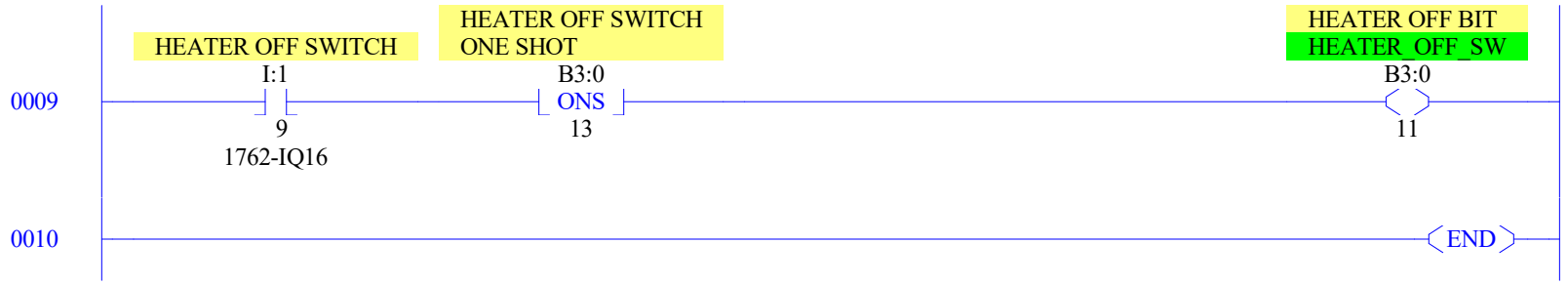
Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	27	9	O:8
INPUT	1	I	Global	No	48	16	I:15
STATUS	2	S	Global	No	0	66	S:65
BINARY	3	B	Global	No	5	5	B3:4
TIMER	4	T	Global	No	39	13	T4:12
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	9	9	N7:8
FLOAT	8	F	Global	No	2	1	F8:0
	9	PD	Global	No	23	1	PD9:0


SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
First Pass
S:1
15
0000
MOV
Move
Source 0
0<
Dest N7:0
0<
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
MOV
Move
Source 0
0<
Dest N7:1
0<
DIGITAL INPUT
0001
JSR
Jump To Subroutine
SBR File Number U:3
DIGITAL OUTPUT
0002
JSR
Jump To Subroutine
SBR File Number U:4
ANALOG INPUT
0003
JSR
Jump To Subroutine
SBR File Number U:5
ANALOG OUTPUT
0004
JSR
Jump To Subroutine
SBR File Number U:6
ALARMS
0005
JSR
Jump To Subroutine
SBR File Number U:8
CONTROLS
0006
JSR
Jump To Subroutine
SBR File Number U:7
DISPLAY
0007
JSR
Jump To Subroutine
SBR File Number U:9

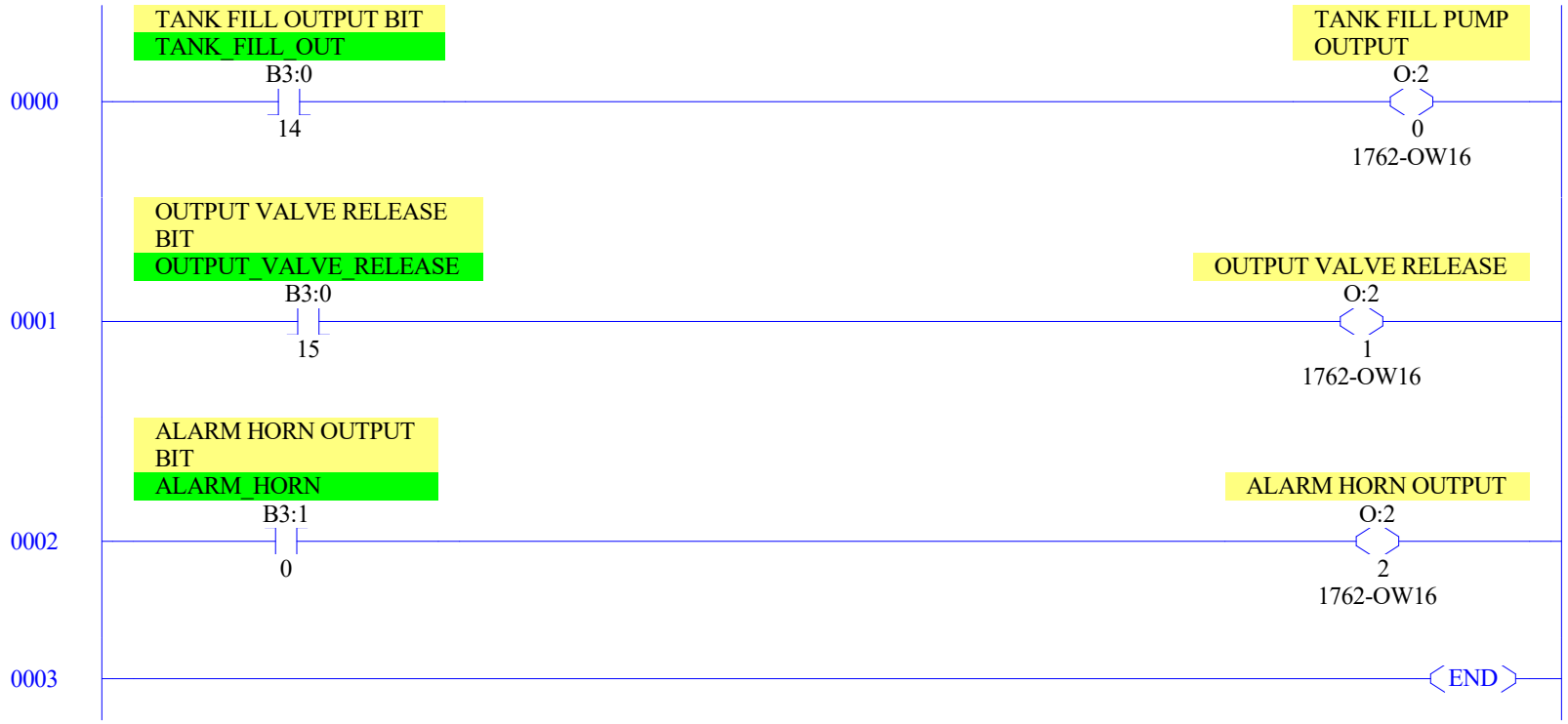

Overflow
Trap
S:5
0008
U
0
0009
END


SYSTEM ON PUSH BUTTON
I:1
0
1762-IQ16
SYSTEM ON PB ONE SHOT
B3:0
ONS
1
SYSTEM ON PB BIT
B3:0
0
0000
SYSTEM OFF PUSH BUTTON
I:1
1
1762-IQ16
SYSTEM OFF PB ONE SHOT
B3:0
ONS
3
SYSTEM OFF BIT
B3:0
2
0001
INPUT PRESSURE SWITCH
I:1
2
1762-IQ16
INPUT PRESSURE BIT
B3:0
4
0002
OUTPUT PRESSURE SWITCH
I:1
3
1762-IQ16
OUTPUT PRESSURE BIT
B3:0
5
0003
LOW LOW LEVEL SWITCH
I:1
4
1762-IQ16
LOW LOW LEVEL SWITCH BIT
LL_LVL_SW
B3:0
6
0004
LOW LEVEL SWITCH
I:1
5
1762-IQ16
LOW LEVEL SWITCH BIT
L_LVL_SW
B3:0
7
0005
HIGH LEVEL SWITCH
I:1
6
1762-IQ16
HIGH LEVEL SWITCH
H_LVL_SW
B3:0
8
0006
HIGH HIGH LEVEL SWITCH
I:1
7
1762-IQ16
HIGH HIGH LEVEL SWITCH BIT
HH_LEVEL_SW
B3:0
9
0007
HEARTER ON SWITCH
I:1
8
1762-IQ16
HEATER ON SWITCH ONE SHOT
B3:0
ONS
12
HEARTER ON BIT
HEATER_ON_SW
B3:0
10
0008

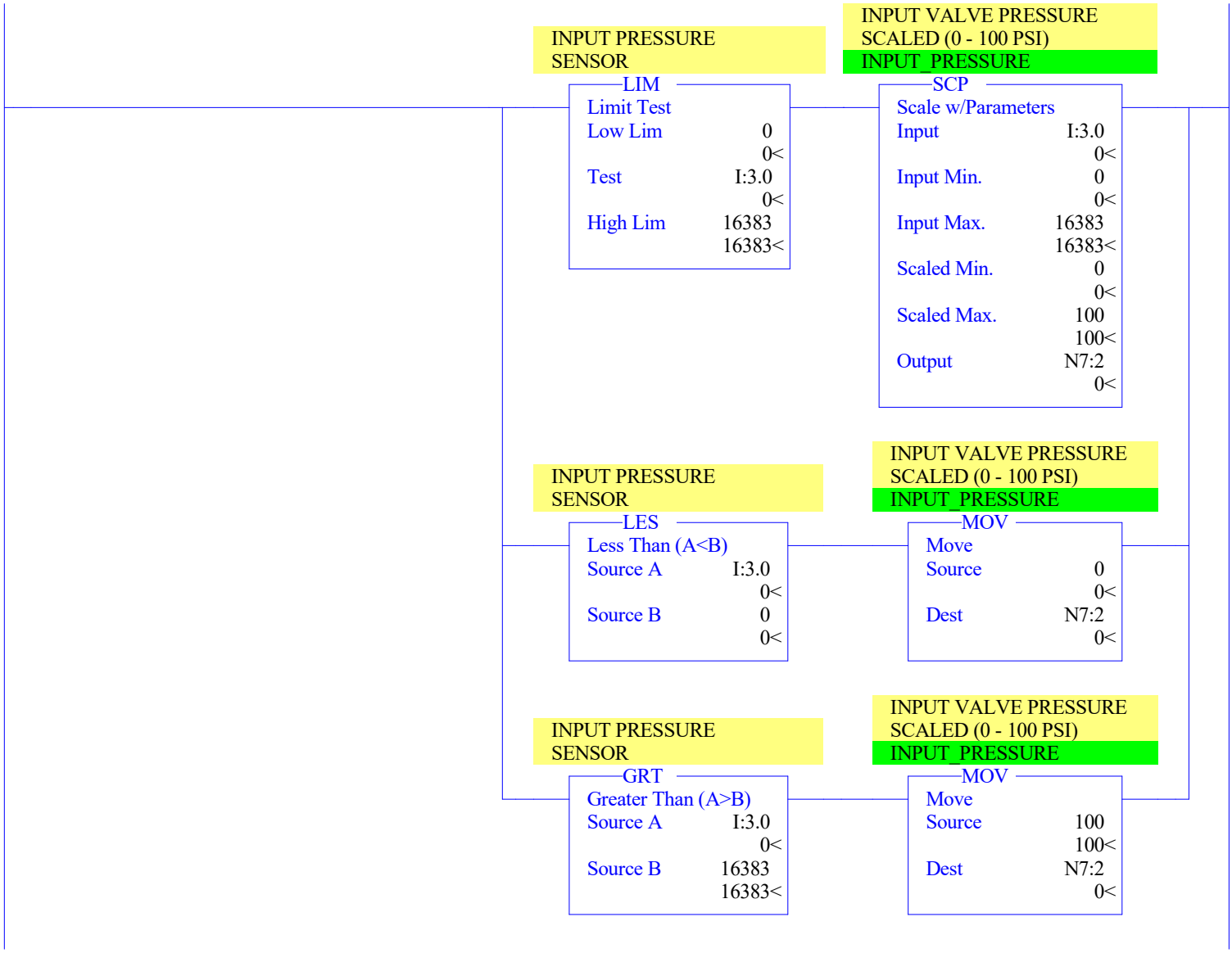
LAD 3 - DIGI IN - Digital Input Ladder Logic --- Total Rungs in File = 11



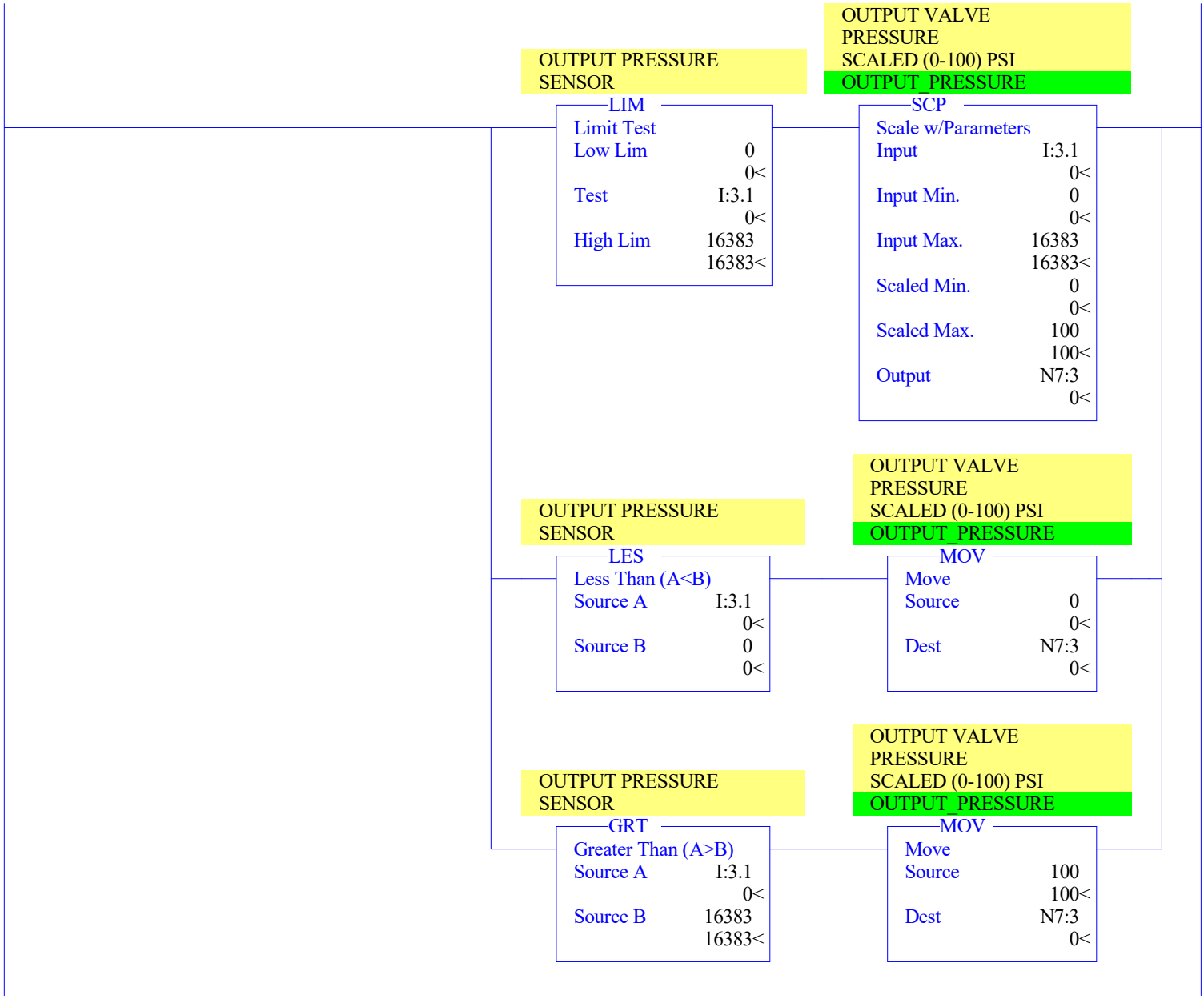
LAD 4 - DIGI OUT - Digital Output Ladder Logic --- Total Rungs in File = 4



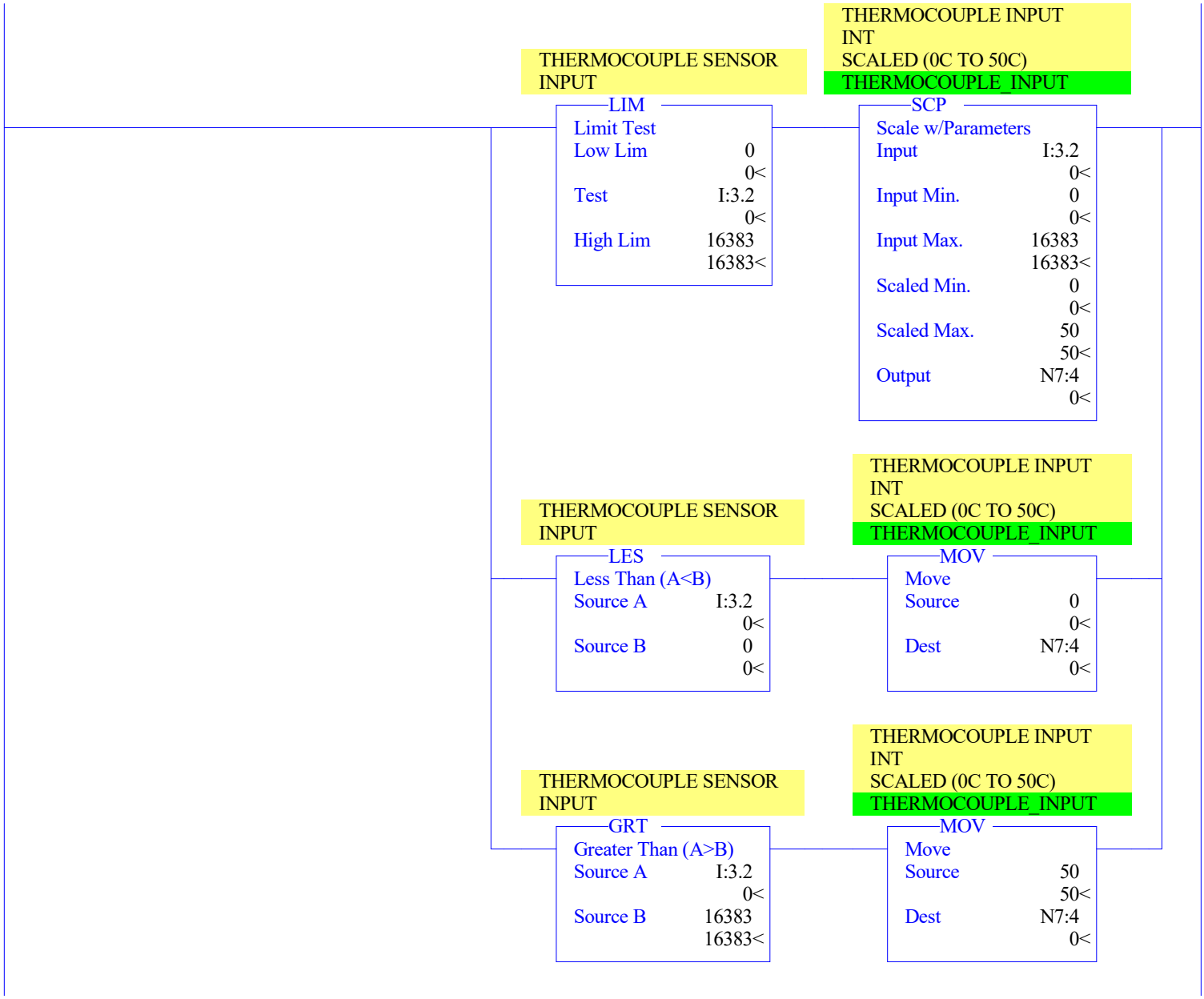
0000

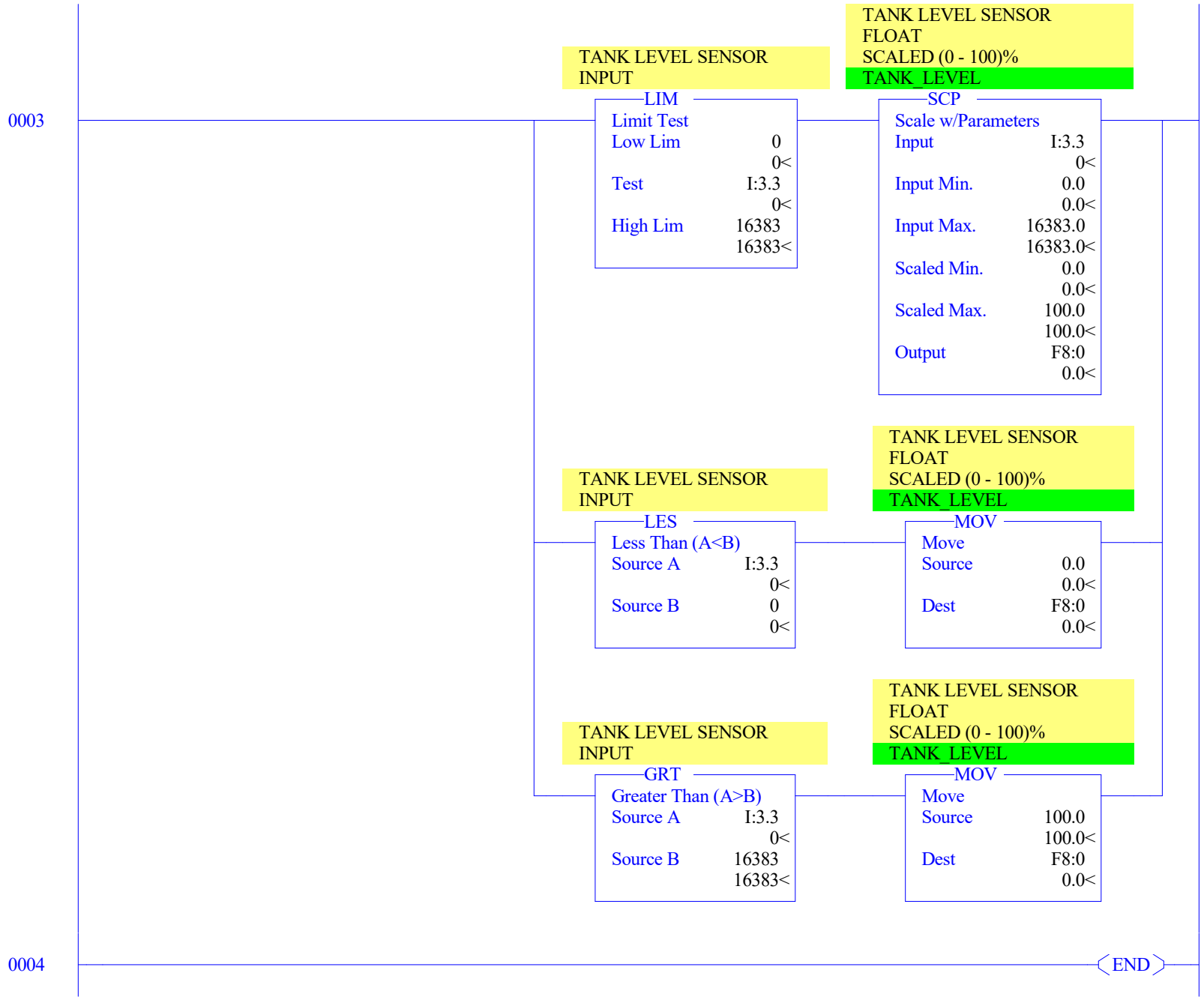

INPUT PRESSURE SENSOR
LIM
Limit Test
Low Lim 0 0<
Test I:3.0 0<
High Lim 16383 16383<
INPUT VALVE PRESSURE SCALED (0 - 100 PSI)
INPUT_PRESSURE
SCP
Scale w/Parameters
Input I:3.0 0<
Input Min. 0 0<
Input Max. 16383 16383<
Scaled Min. 0 0<
Scaled Max. 100 100<
Output N7:2 0<
INPUT PRESSURE SENSOR
LES
Less Than (A<B)
Source A I:3.0 0<
Source B 0 0<
INPUT VALVE PRESSURE SCALED (0 - 100 PSI)
INPUT_PRESSURE
MOV
Move
Source 0 0<
Dest N7:2 0<
INPUT PRESSURE SENSOR
GRT
Greater Than (A>B)
Source A I:3.0 0<
Source B 16383 16383<
INPUT VALVE PRESSURE SCALED (0 - 100 PSI)
INPUT_PRESSURE
MOV
Move
Source 100 100<
Dest N7:2 0<

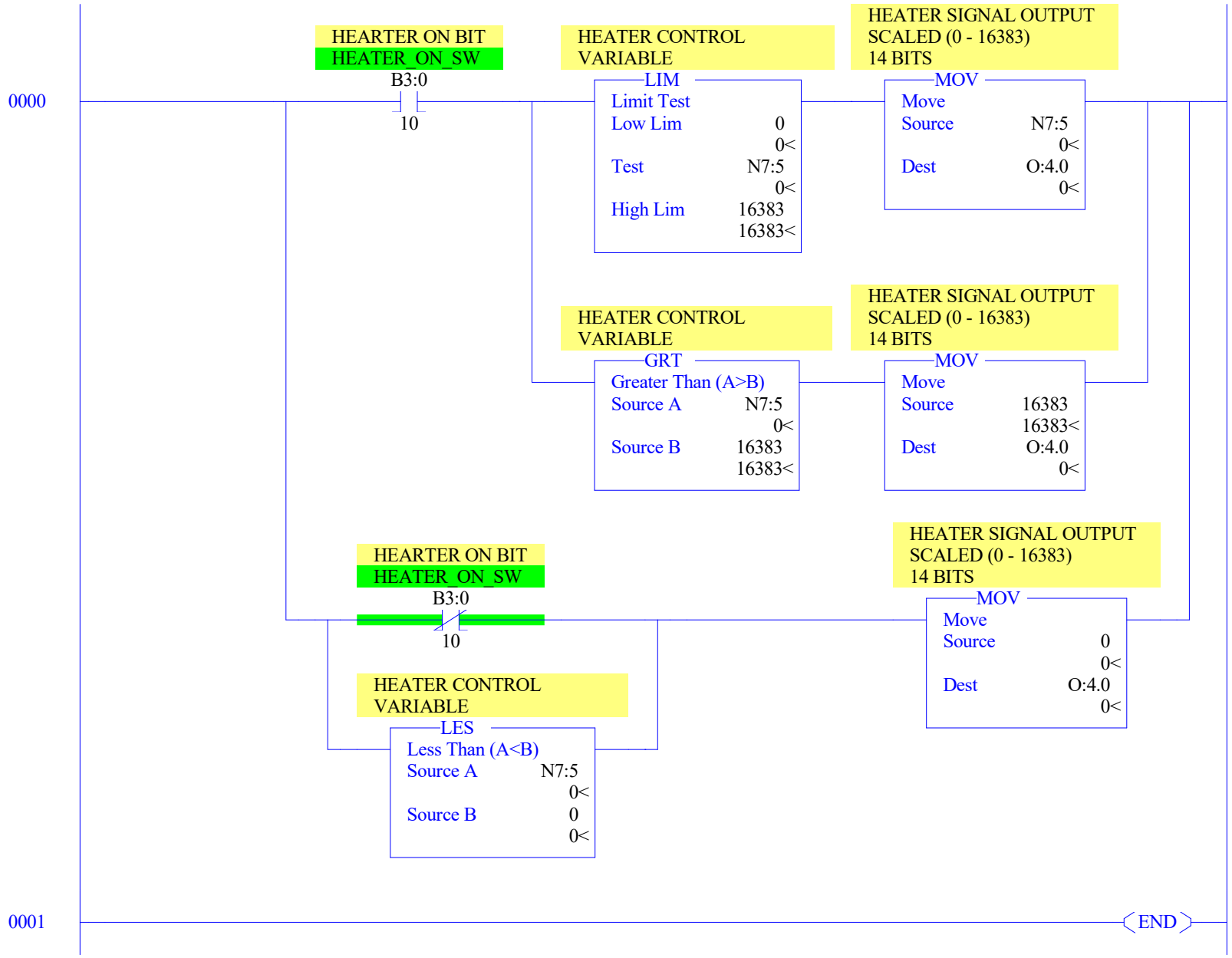
0001

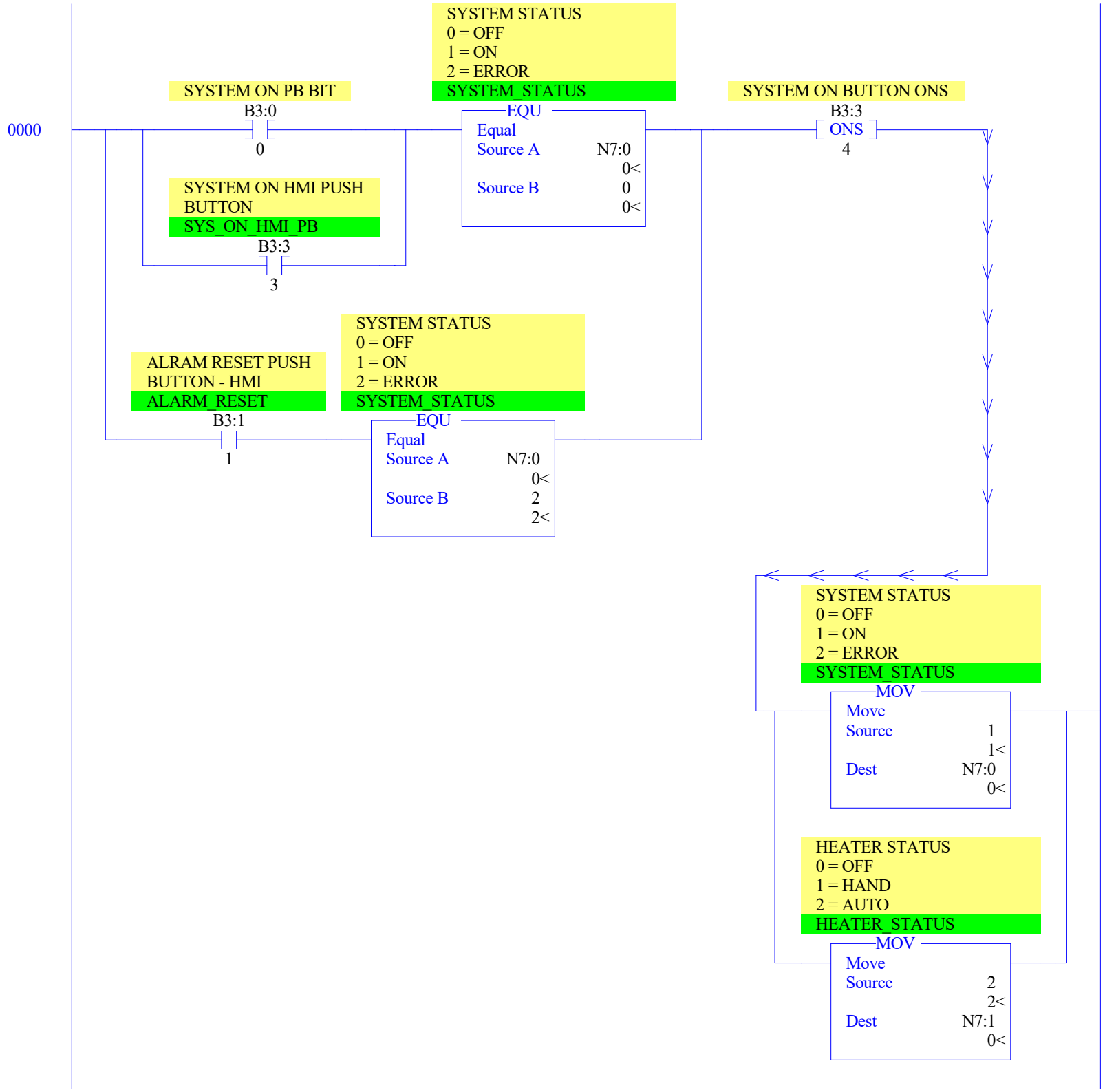

OUTPUT PRESSURE SENSOR
LIM
Limit Test
Low Lim 0 0<
Test I:3.1 0<
High Lim 16383 16383<
OUTPUT VALVE PRESSURE SCALED (0-100) PSI
OUTPUT_PRESSURE
SCP
Scale w/Parameters
Input I:3.1 0<
Input Min. 0 0<
Input Max. 16383 16383<
Scaled Min. 0 0<
Scaled Max. 100 100<
Output N7:3 0<
OUTPUT PRESSURE SENSOR
LES
Less Than (A<B)
Source A I:3.1 0<
Source B 0 0<
OUTPUT VALVE PRESSURE SCALED (0-100) PSI
OUTPUT_PRESSURE
MOV
Move
Source 0 0<
Dest N7:3 0<
OUTPUT PRESSURE SENSOR
GRT
Greater Than (A>B)
Source A I:3.1 0<
Source B 16383 16383<
OUTPUT VALVE PRESSURE SCALED (0-100) PSI
OUTPUT_PRESSURE
MOV
Move
Source 100 100<
Dest N7:3 0<

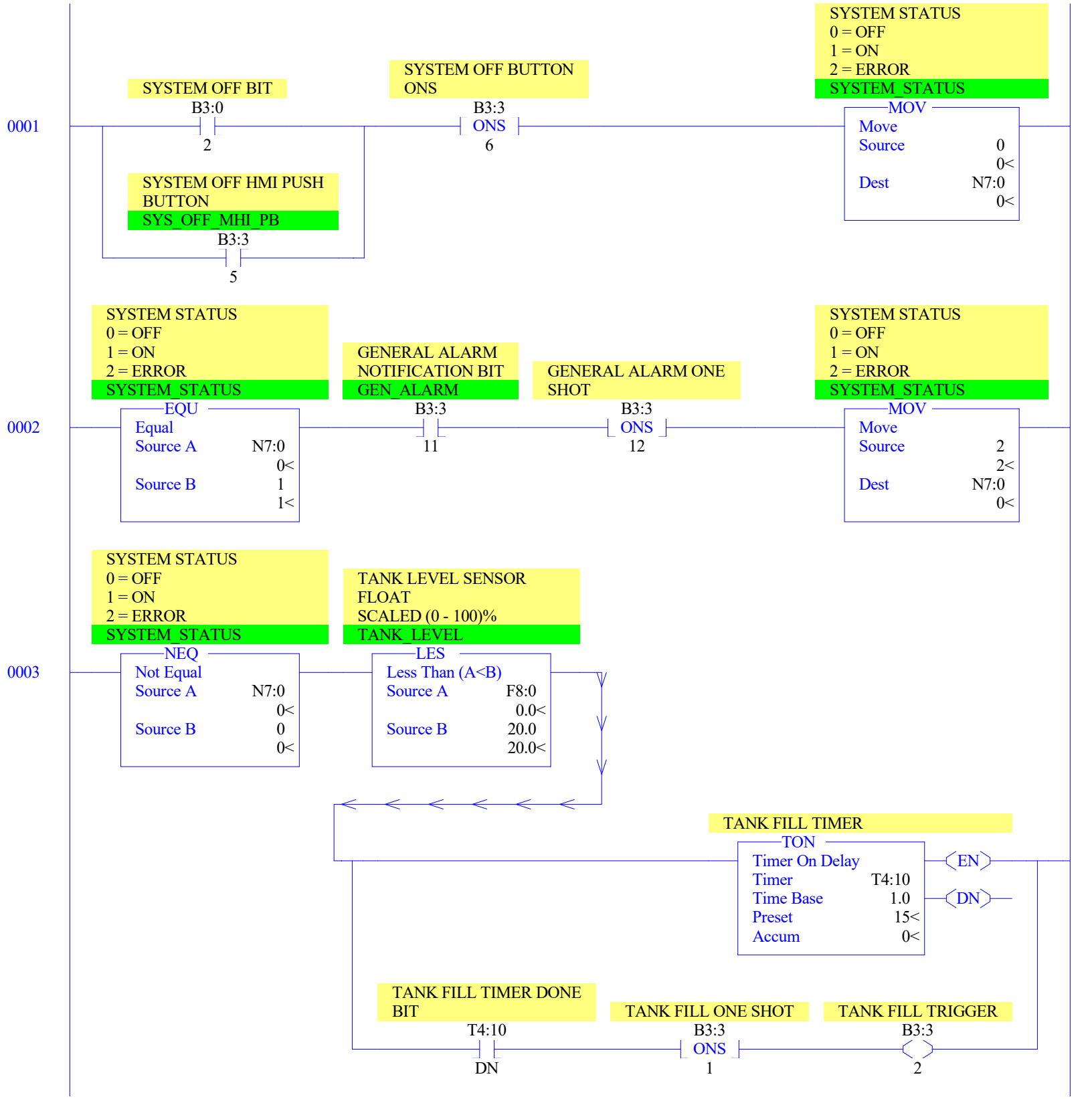
0002

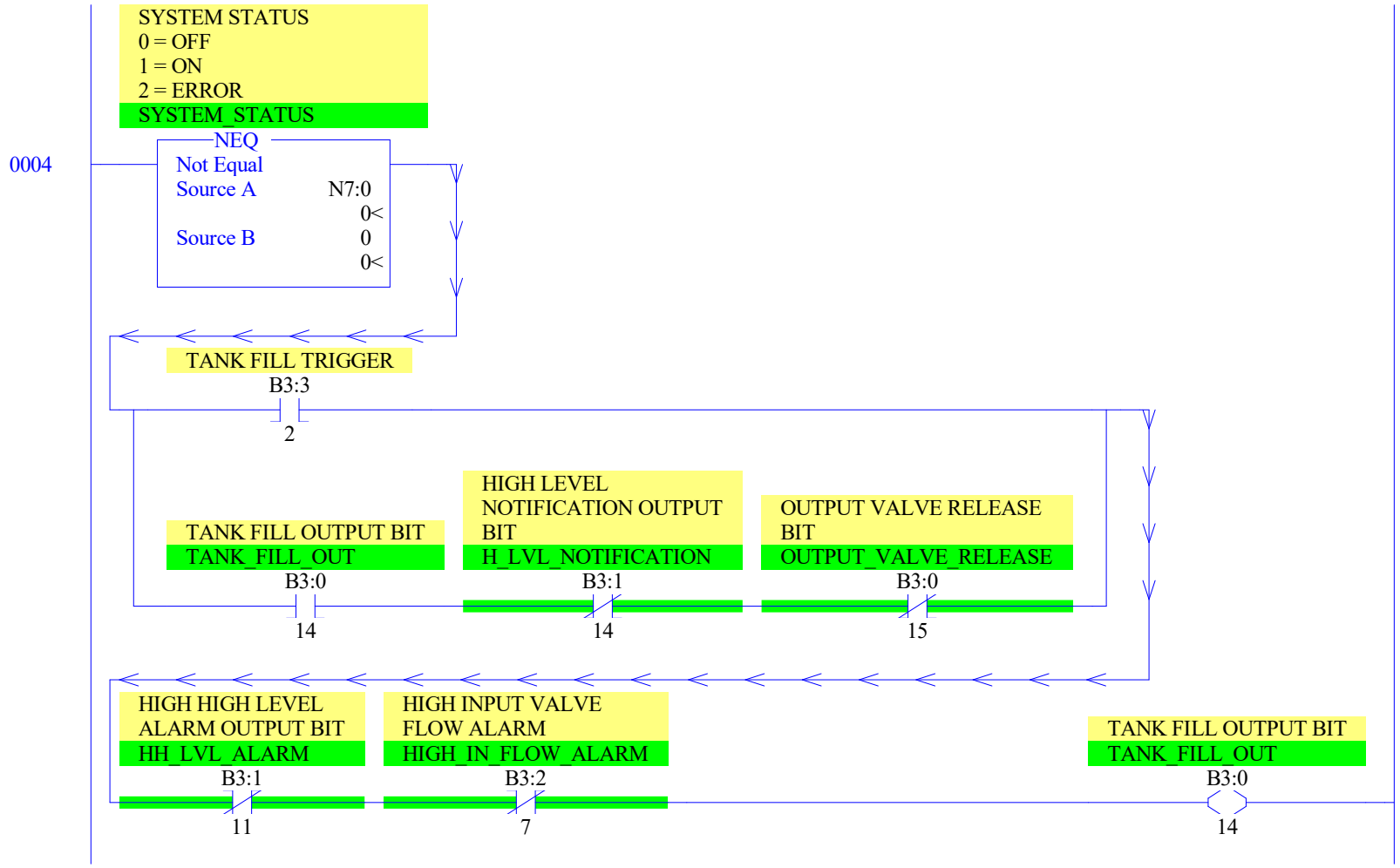

THERMOCOUPLE SENSOR INPUT
LIM
Limit Test
Low Lim 0 0<
Test I:3.2 0<
High Lim 16383 16383<
THERMOCOUPLE INPUT INT SCALED (0C TO 50C) THERMOCOUPLE_INPUT
SCP
Scale w/Parameters
Input I:3.2 0<
Input Min. 0 0<
Input Max. 16383 16383<
Scaled Min. 0 0<
Scaled Max. 50 50<
Output N7:4 0<
THERMOCOUPLE SENSOR INPUT
LES
Less Than (A<B)
Source A I:3.2 0<
Source B 0 0<
THERMOCOUPLE INPUT INT SCALED (0C TO 50C) THERMOCOUPLE_INPUT
MOV
Move
Source 0 0<
Dest N7:4 0<
THERMOCOUPLE SENSOR INPUT
GRT
Greater Than (A>B)
Source A I:3.2 0<
Source B 16383 16383<
THERMOCOUPLE INPUT INT SCALED (0C TO 50C) THERMOCOUPLE_INPUT
MOV
Move
Source 50 50<
Dest N7:4 0<

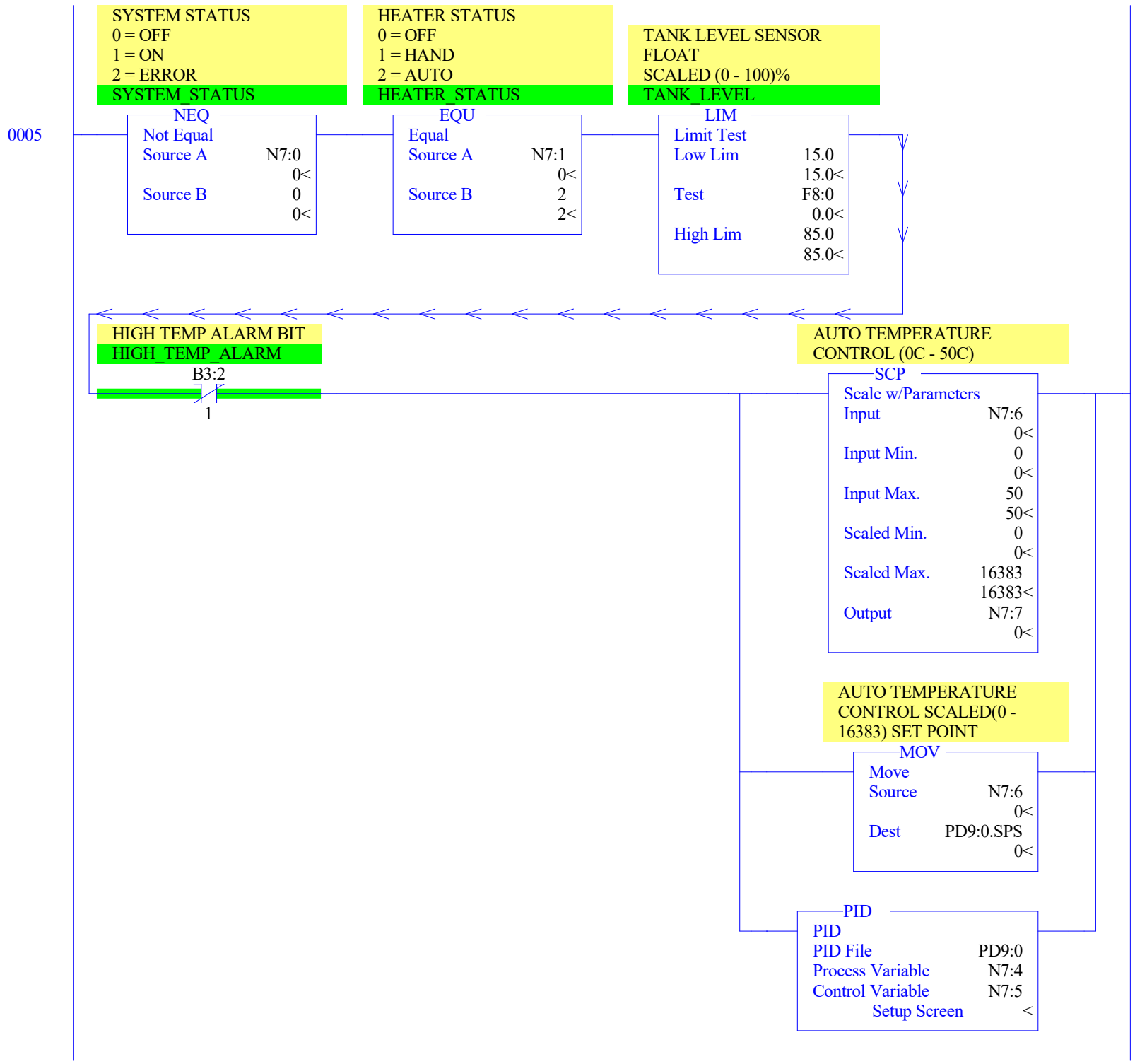

0003
TANK LEVEL SENSOR
INPUT
LIM
Limit Test
Low Lim 0
0<
Test I:3.3
0<
High Lim 16383
16383<
TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
SCP
Scale w/Parameters
Input I:3.3
0<
Input Min. 0.0
0.0<
Input Max. 16383.0
16383.0<
Scaled Min. 0.0
0.0<
Scaled Max. 100.0
100.0<
Output F8:0
0.0<
TANK LEVEL SENSOR
INPUT
LES
Less Than (A<B)
Source A I:3.3
0<
Source B 0
0<
TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
MOV
Move
Source 0.0
0.0<
Dest F8:0
0.0<
TANK LEVEL SENSOR
INPUT
GRT
Greater Than (A>B)
Source A I:3.3
0<
Source B 16383
16383<
TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
MOV
Move
Source 100.0
100.0<
Dest F8:0
0.0<
0004
END

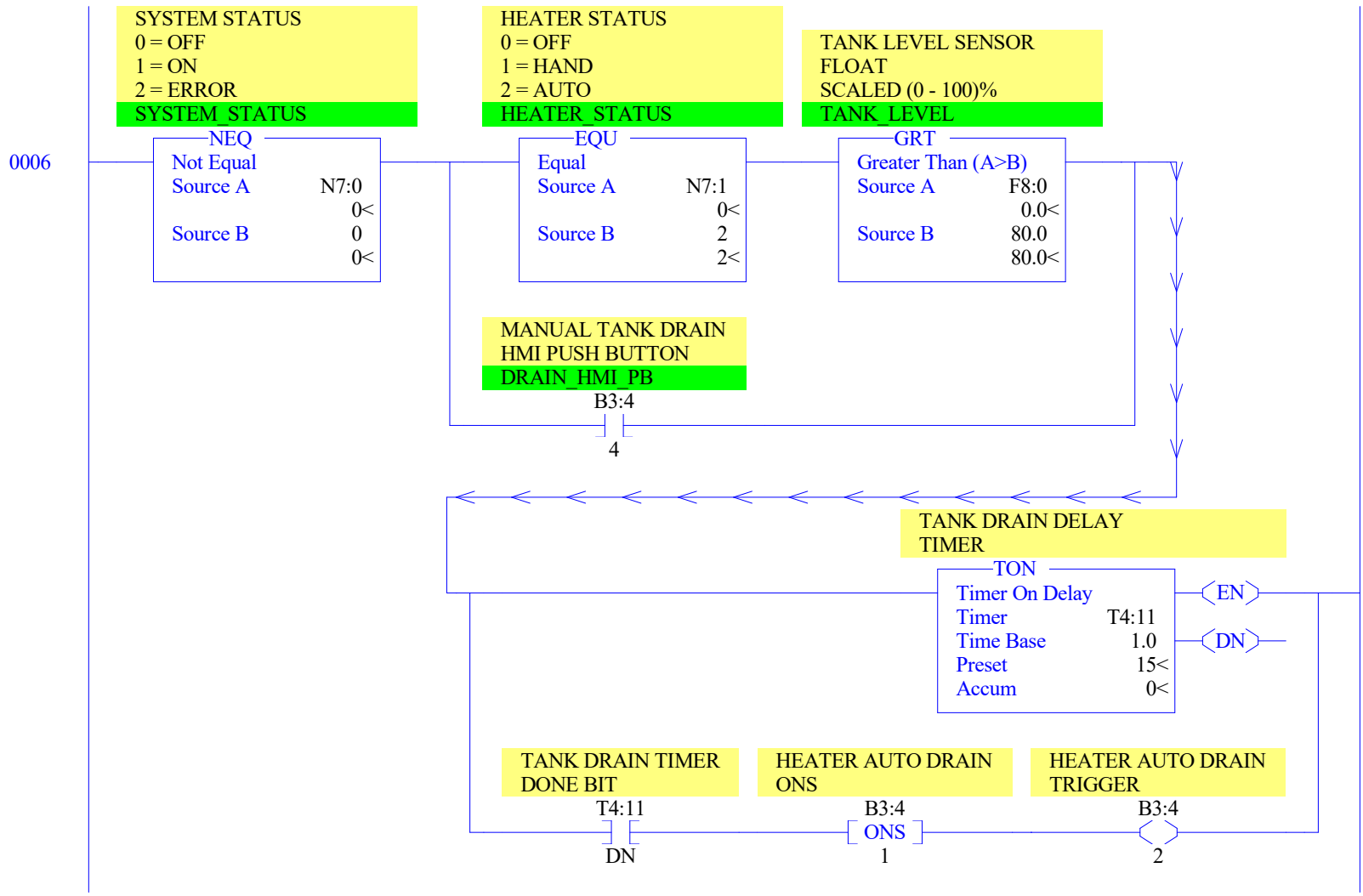

0000
HEARTER ON BIT
HEATER_ON_SW
B3:0
10
HEATER CONTROL VARIABLE
LIM
Limit Test
Low Lim 0
Test N7:5
High Lim 16383
HEATER SIGNAL OUTPUT SCALED (0 - 16383) 14 BITS
MOV
Move
Source N7:5
Dest O:4.0
HEATER CONTROL VARIABLE
GRT
Greater Than (A>B)
Source A N7:5
Source B 16383
HEATER SIGNAL OUTPUT SCALED (0 - 16383) 14 BITS
MOV
Move
Source 16383
Dest O:4.0
HEARTER ON BIT
HEATER_ON_SW
B3:0
10
HEATER SIGNAL OUTPUT SCALED (0 - 16383) 14 BITS
MOV
Move
Source 0
Dest O:4.0
HEATER CONTROL VARIABLE
LES
Less Than (A<B)
Source A N7:5
Source B 0
0001
END

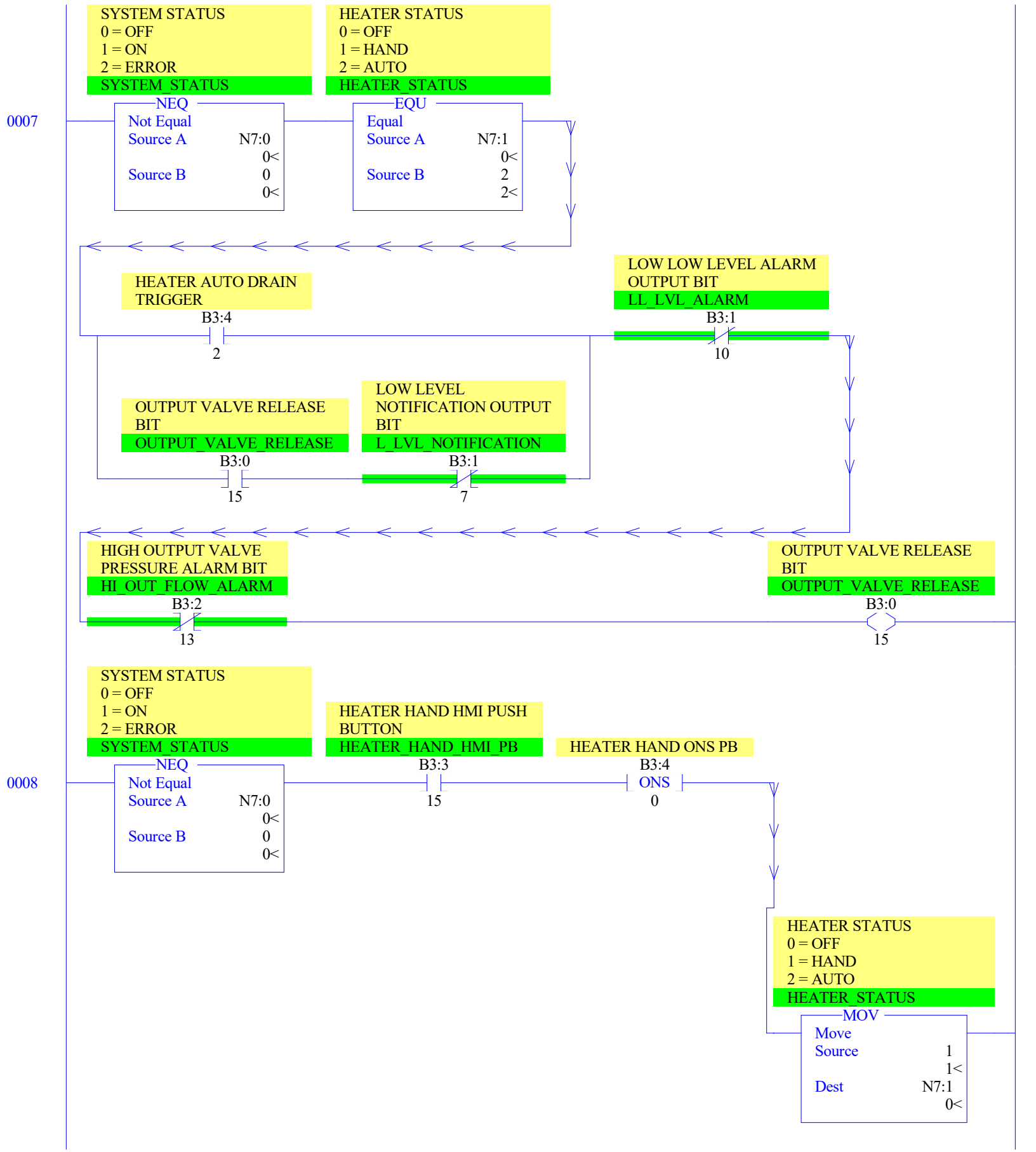

0000
SYSTEM ON PB BIT
B3:0
0
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
EQU
Equal
Source A N7:0
0<
Source B 0
0<
SYSTEM ON BUTTON ONS
B3:3
ONS
4
SYSTEM ON HMI PUSH BUTTON
SYS_ON_HMI_PB
B3:3
3
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
EQU
Equal
Source A N7:0
0<
Source B 2
2<
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
MOV
Move
Source 1
1<
Dest N7:0
0<
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
MOV
Move
Source 2
2<
Dest N7:1
0<

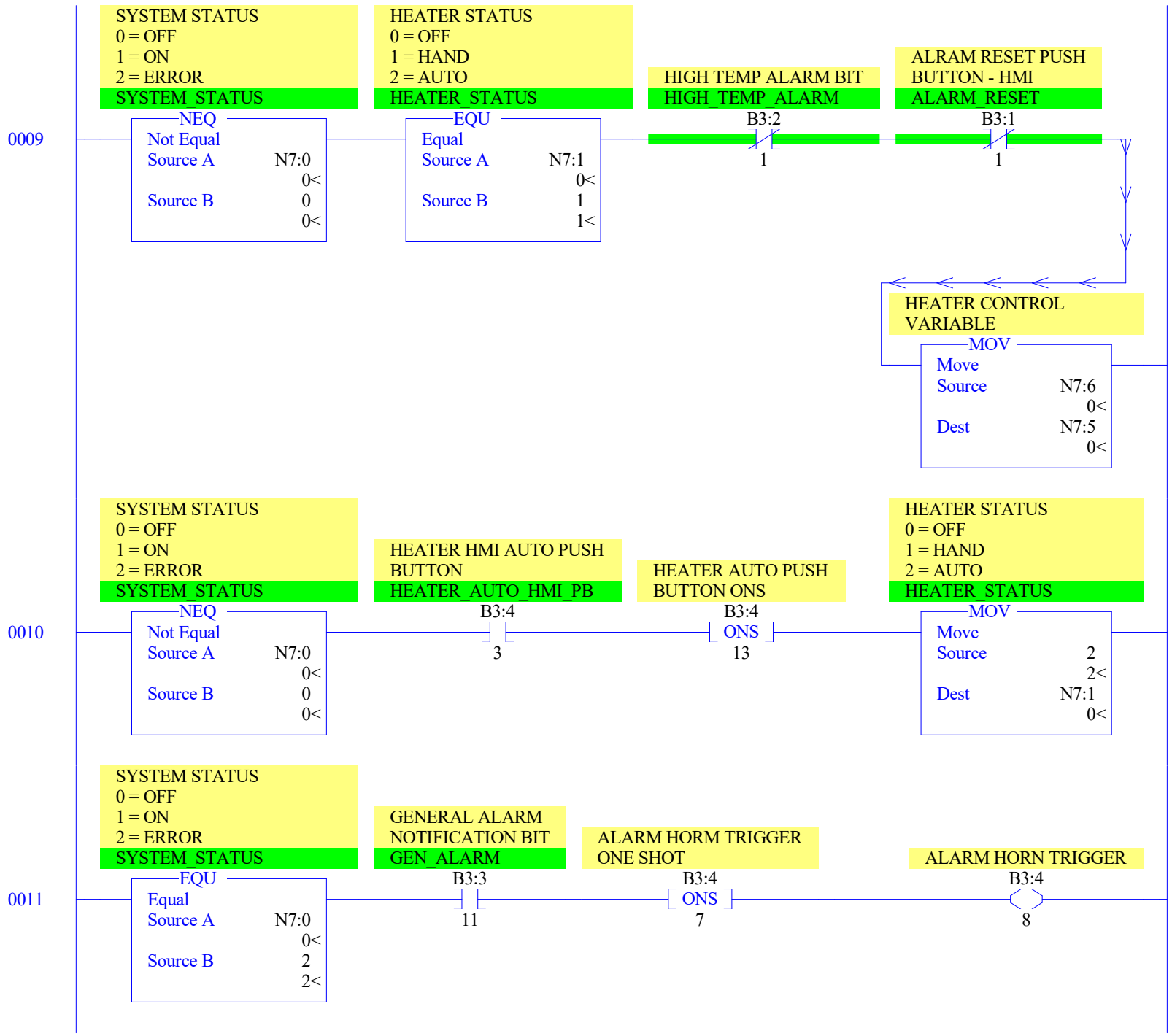

0001
SYSTEM OFF BIT
B3:0
2
SYSTEM OFF HMI PUSH BUTTON
SYS_OFF_MHI_PB
B3:3
5
SYSTEM OFF BUTTON ONS
B3:3
ONS
6
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
MOV
Move
Source 0
0<
Dest N7:0
0<
0002
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
EQU
Equal
Source A N7:0
0<
Source B 1
1<
GENERAL ALARM NOTIFICATION BIT
GEN_ALARM
B3:3
11
GENERAL ALARM ONE SHOT
B3:3
ONS
12
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
MOV
Move
Source 2
2<
Dest N7:0
0<
0003
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
NEQ
Not Equal
Source A N7:0
0<
Source B 0
0<
TANK LEVEL SENSOR FLOAT SCALED (0 - 100)%
TANK_LEVEL
LES
Less Than (A<B)
Source A F8:0
0.0<
Source B 20.0
20.0<
TANK FILL TIMER
TON
Timer On Delay
Timer T4:10
Time Base 1.0
Preset 15<
Accum 0<
EN
DN
TANK FILL TIMER DONE BIT
T4:10
DN
TANK FILL ONE SHOT
B3:3
ONS
1
TANK FILL TRIGGER
B3:3
2

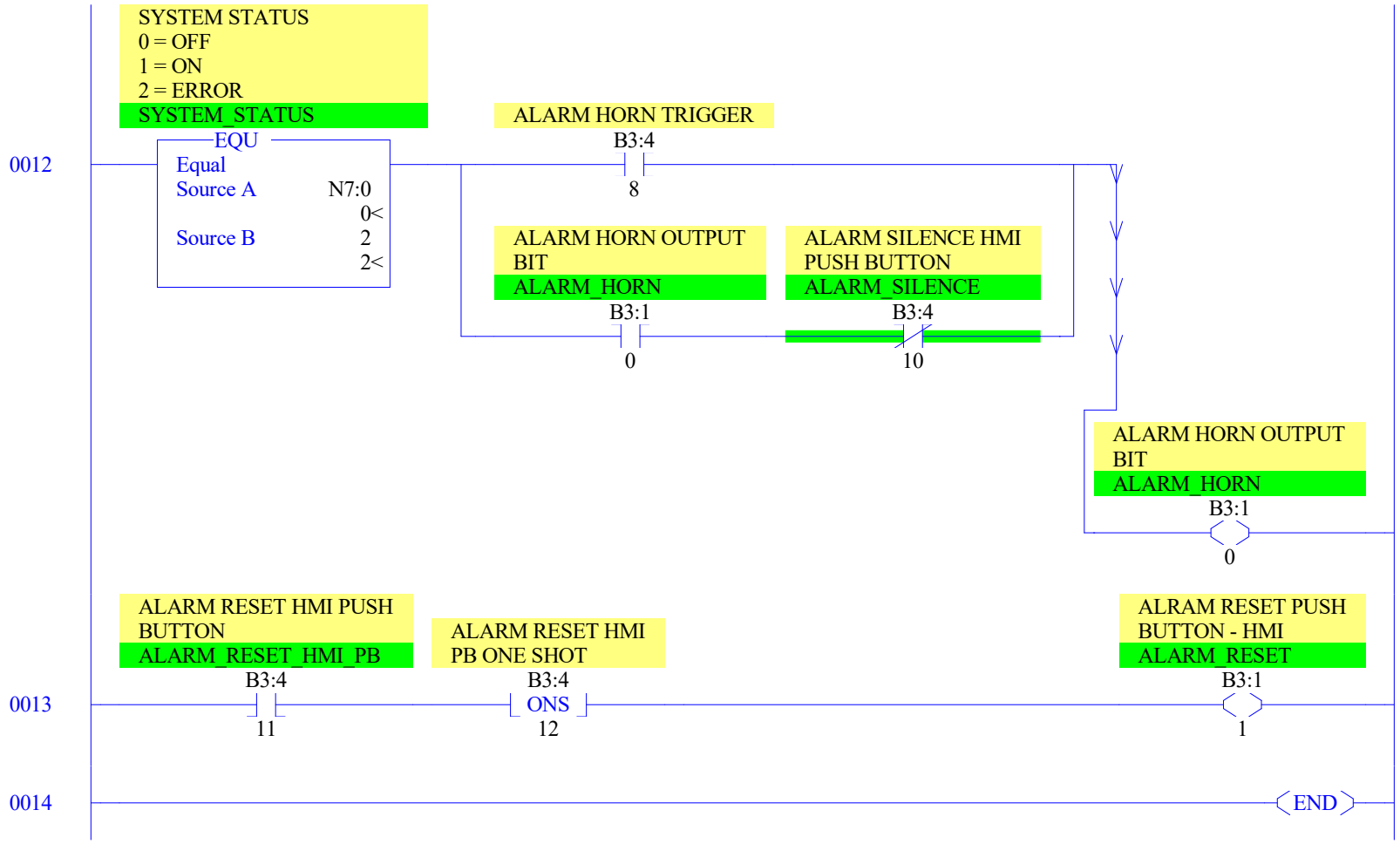

SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
0004
NEQ
Not Equal
Source A
N7:0
0<
Source B
0
0<
TANK FILL TRIGGER
B3:3
2
TANK FILL OUTPUT BIT
TANK_FILL_OUT
B3:0
14
HIGH LEVEL NOTIFICATION OUTPUT BIT
H_LVL_NOTIFICATION
B3:1
14
OUTPUT VALVE RELEASE BIT
OUTPUT_VALVE_RELEASE
B3:0
15
HIGH HIGH LEVEL ALARM OUTPUT BIT
HH_LVL_ALARM
B3:1
11
HIGH INPUT VALVE FLOW ALARM
HIGH_IN_FLOW_ALARM
B3:2
7
TANK FILL OUTPUT BIT
TANK_FILL_OUT
B3:0
14

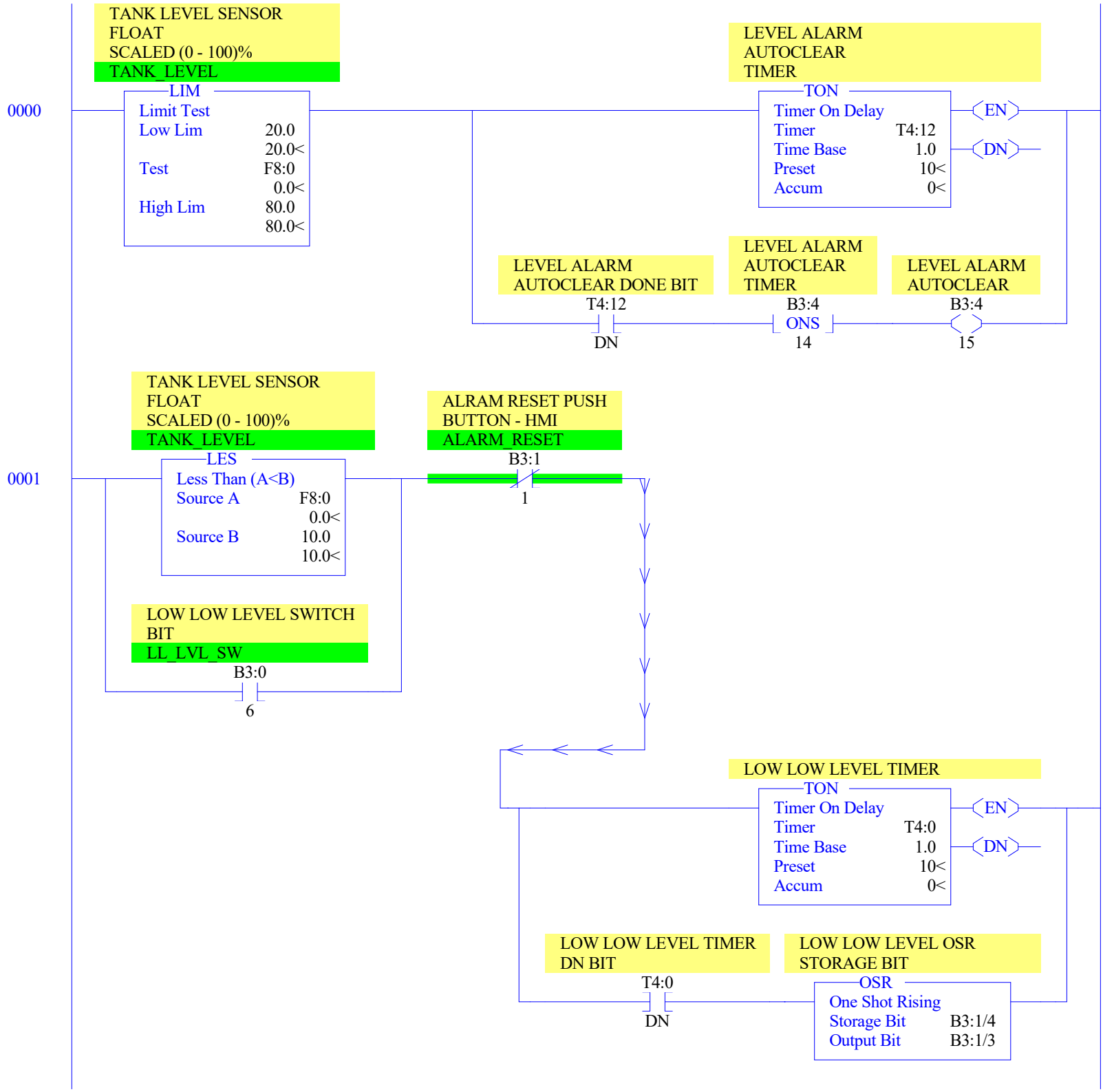

SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
0005
NEQ
Not Equal
Source A N7:0
0
Source B 0
0
EQU
Equal
Source A N7:1
0
Source B 2
2
LIM
Limit Test
Low Lim 15.0
15.0
Test F8:0
0.0
High Lim 85.0
85.0
HIGH TEMP ALARM BIT
HIGH_TEMP_ALARM
B3:2
1
AUTO TEMPERATURE
CONTROL (0C - 50C)
SCP
Scale w/Parameters
Input N7:6
0
Input Min. 0
0
Input Max. 50
50
Scaled Min. 0
0
Scaled Max. 16383
16383
Output N7:7
0
AUTO TEMPERATURE
CONTROL SCALED(0 -
16383) SET POINT
MOV
Move
Source N7:6
0
Dest PD9:0.SPS
0
PID
PID
PID File PD9:0
Process Variable N7:4
Control Variable N7:5
Setup Screen

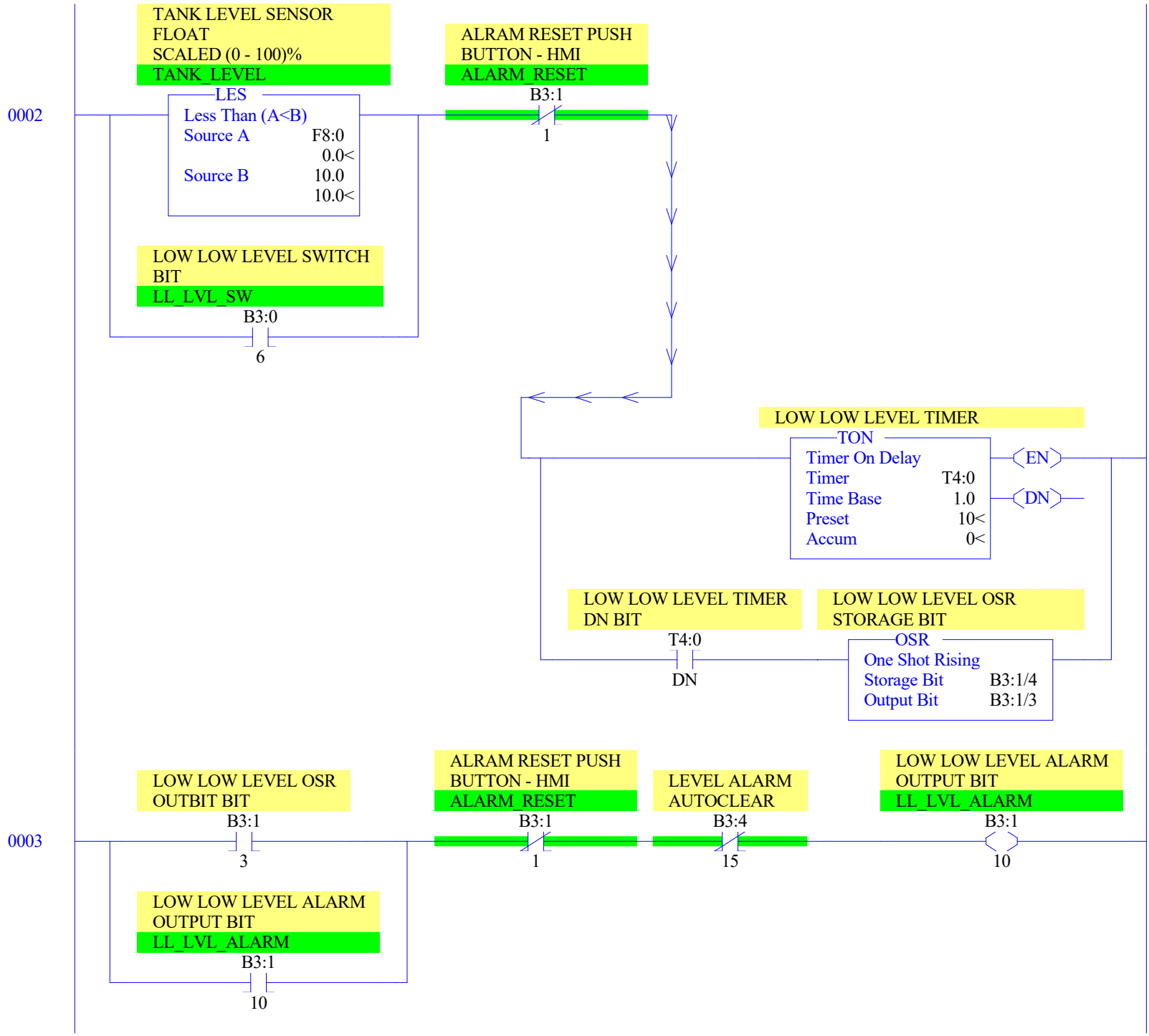

SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
0006
NEQ
Not Equal
Source A N7:0
0<
Source B 0
0<
EQU
Equal
Source A N7:1
0<
Source B 2
2<
GRT
Greater Than (A>B)
Source A F8:0
0.0<
Source B 80.0
80.0<
MANUAL TANK DRAIN
HMI PUSH BUTTON
DRAIN_HMI_PB
B3:4
4
TANK DRAIN DELAY
TIMER
TON
Timer On Delay
Timer T4:11
Time Base 1.0
Preset 15<
Accum 0<
EN
DN
TANK DRAIN TIMER
DONE BIT
T4:11
DN
HEATER AUTO DRAIN
ONS
B3:4
ONS
1
HEATER AUTO DRAIN
TRIGGER
B3:4
2

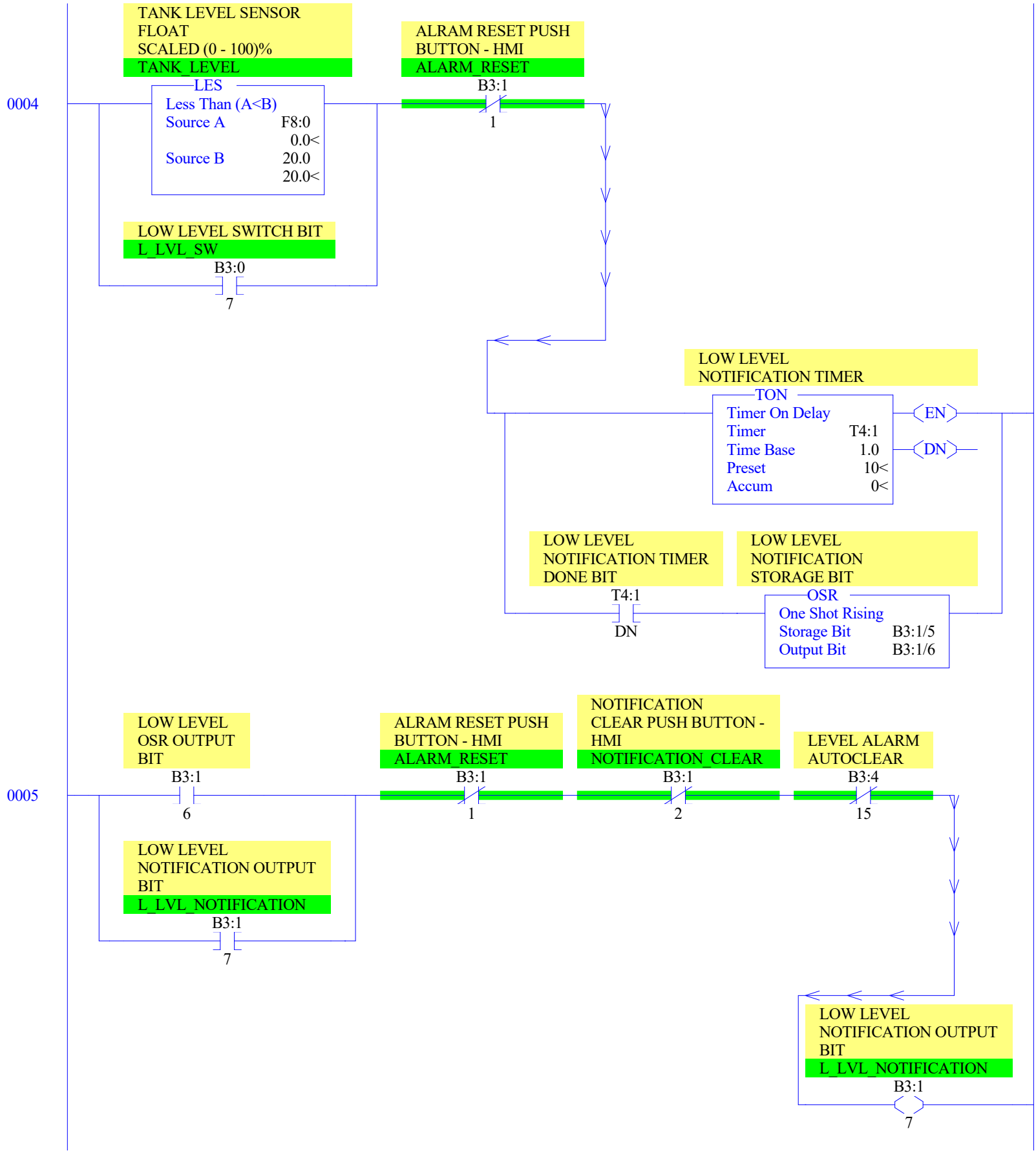

SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
0007
NEQ
Not Equal
Source A N7:0
0<
Source B 0
0<
EQU
Equal
Source A N7:1
0<
Source B 2
2<
HEATER AUTO DRAIN TRIGGER
B3:4
2
LOW LOW LEVEL ALARM OUTPUT BIT
LL_LVL_ALARM
B3:1
10
OUTPUT VALVE RELEASE BIT
OUTPUT_VALVE_RELEASE
B3:0
15
LOW LEVEL NOTIFICATION OUTPUT BIT
L_LVL_NOTIFICATION
B3:1
7
HIGH OUTPUT VALVE PRESSURE ALARM BIT
HI_OUT_FLOW_ALARM
B3:2
13
OUTPUT VALVE RELEASE BIT
OUTPUT_VALVE_RELEASE
B3:0
15
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
HEATER HAND HMI PUSH BUTTON
HEATER_HAND_HMI_PB
B3:3
15
HEATER HAND ONS PB
B3:4
ONS
0
0008
NEQ
Not Equal
Source A N7:0
0<
Source B 0
0<
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
MOV
Move
Source 1
1<
Dest N7:1
0<

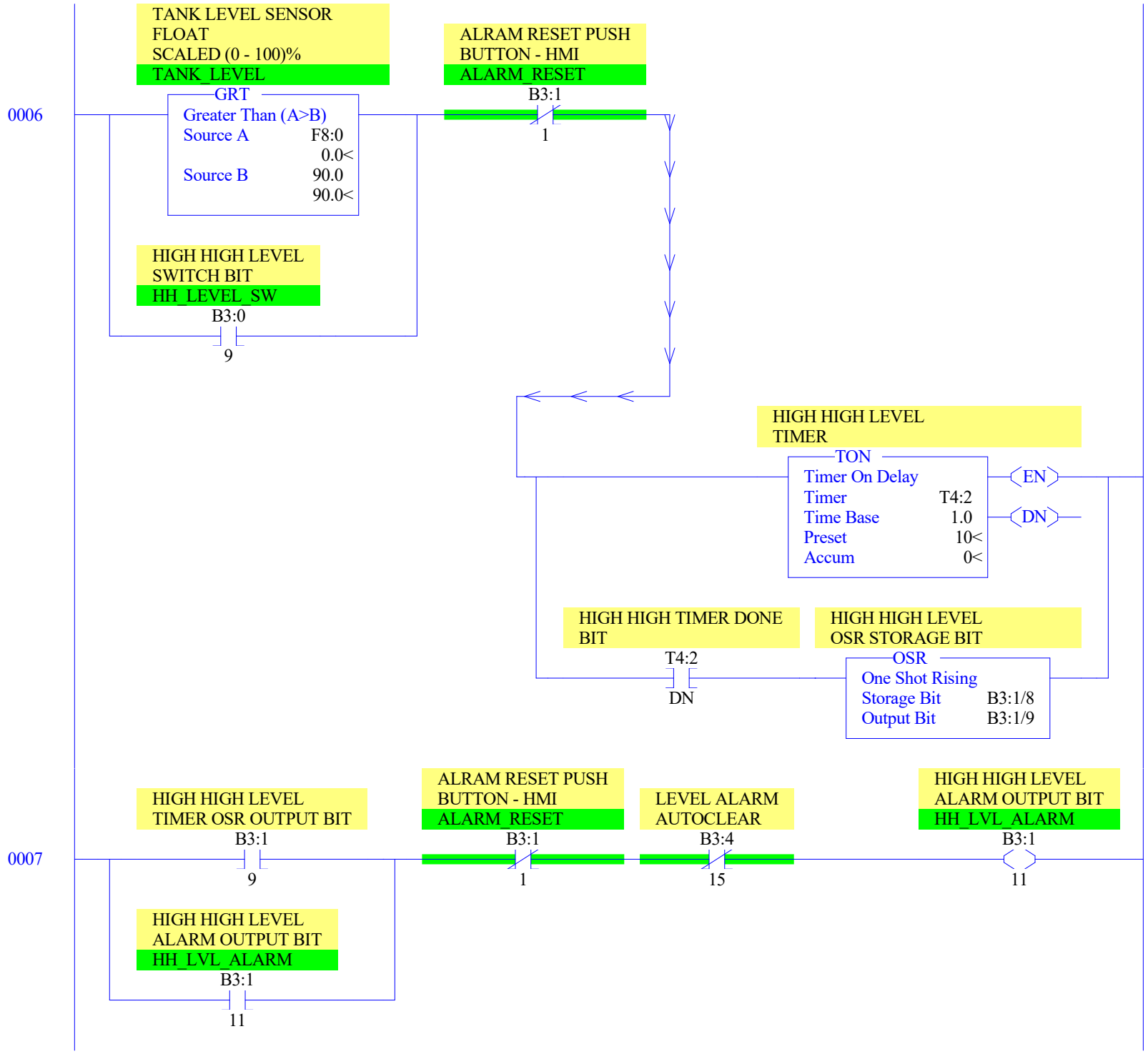

0009
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
NEQ
Not Equal
Source A N7:0 0<
Source B 0 0<
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
EQU
Equal
Source A N7:1 0<
Source B 1 1<
HIGH TEMP ALARM BIT
HIGH_TEMP_ALARM
B3:2
1
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
HEATER CONTROL VARIABLE
MOV
Move
Source N7:6 0<
Dest N7:5 0<
0010
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
NEQ
Not Equal
Source A N7:0 0<
Source B 0 0<
HEATER HMI AUTO PUSH BUTTON
HEATER_AUTO_HMI_PB
B3:4
3
HEATER AUTO PUSH BUTTON ONS
B3:4
ONS
13
HEATER STATUS
0 = OFF
1 = HAND
2 = AUTO
HEATER_STATUS
MOV
Move
Source 2 2<
Dest N7:1 0<
0011
SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
EQU
Equal
Source A N7:0 0<
Source B 2 2<
GENERAL ALARM NOTIFICATION BIT
GEN_ALARM
B3:3
11
ALARM HORM TRIGGER ONE SHOT
B3:4
ONS
7
ALARM HORN TRIGGER
B3:4
8

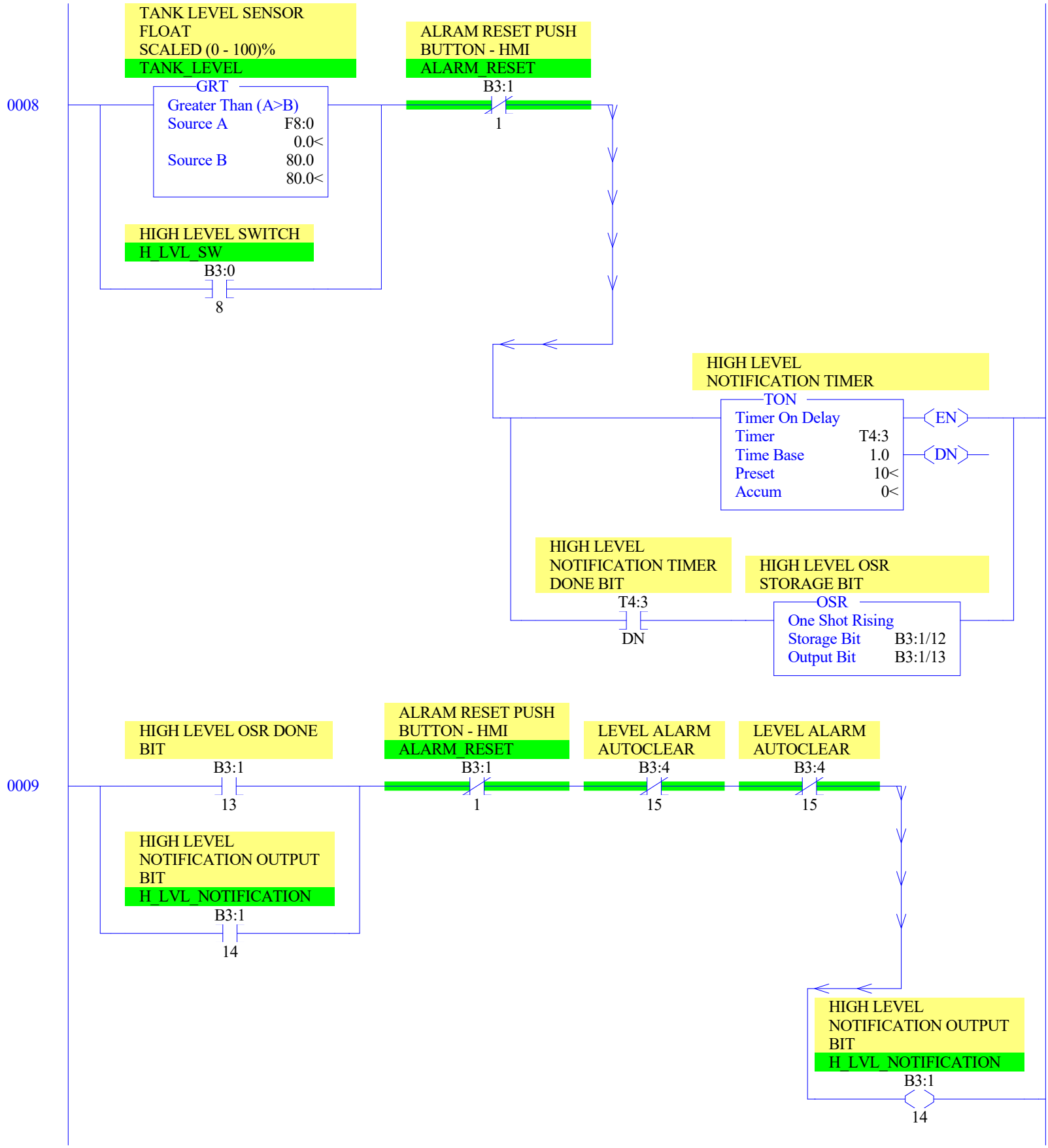

SYSTEM STATUS
0 = OFF
1 = ON
2 = ERROR
SYSTEM_STATUS
0012
EQU
Equal
Source A
N7:0
0<
Source B
2
2<
ALARM HORN TRIGGER
B3:4
8
ALARM HORN OUTPUT BIT
ALARM_HORN
B3:1
0
ALARM SILENCE HMI PUSH BUTTON
ALARM_SILENCE
B3:4
10
ALARM HORN OUTPUT BIT
ALARM_HORN
B3:1
0
ALARM RESET HMI PUSH BUTTON
ALARM_RESET_HMI_PB
B3:4
11
0013
ALARM RESET HMI PB ONE SHOT
B3:4
ONS
12
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
0014
END

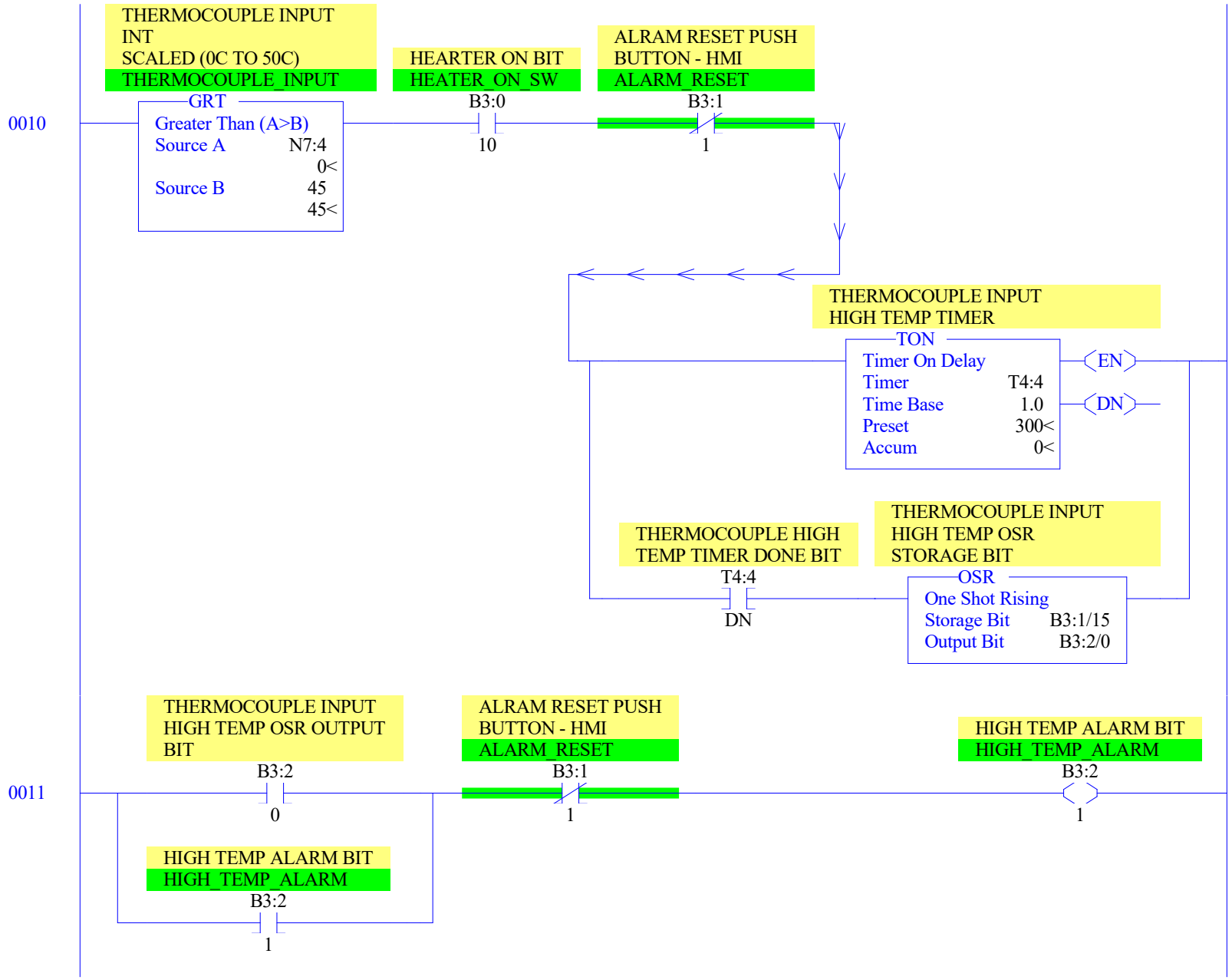

TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
LIM
Limit Test
Low Lim 20.0
20.0<
Test F8:0
0.0<
High Lim 80.0
80.0<
LEVEL ALARM
AUTOCLEAR
TIMER
TON
Timer On Delay
Timer T4:12
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
0000
LEVEL ALARM
AUTOCLEAR DONE BIT
T4:12
DN
LEVEL ALARM
AUTOCLEAR
TIMER
B3:4
ONS
14
LEVEL ALARM
AUTOCLEAR
B3:4
15
TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
LES
Less Than (A<B)
Source A F8:0
0.0<
Source B 10.0
10.0<
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
0001
LOW LOW LEVEL SWITCH
BIT
LL_LVL_SW
B3:0
6
LOW LOW LEVEL TIMER
TON
Timer On Delay
Timer T4:0
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
LOW LOW LEVEL TIMER
DN BIT
T4:0
DN
LOW LOW LEVEL OSR
STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:1/4
Output Bit B3:1/3

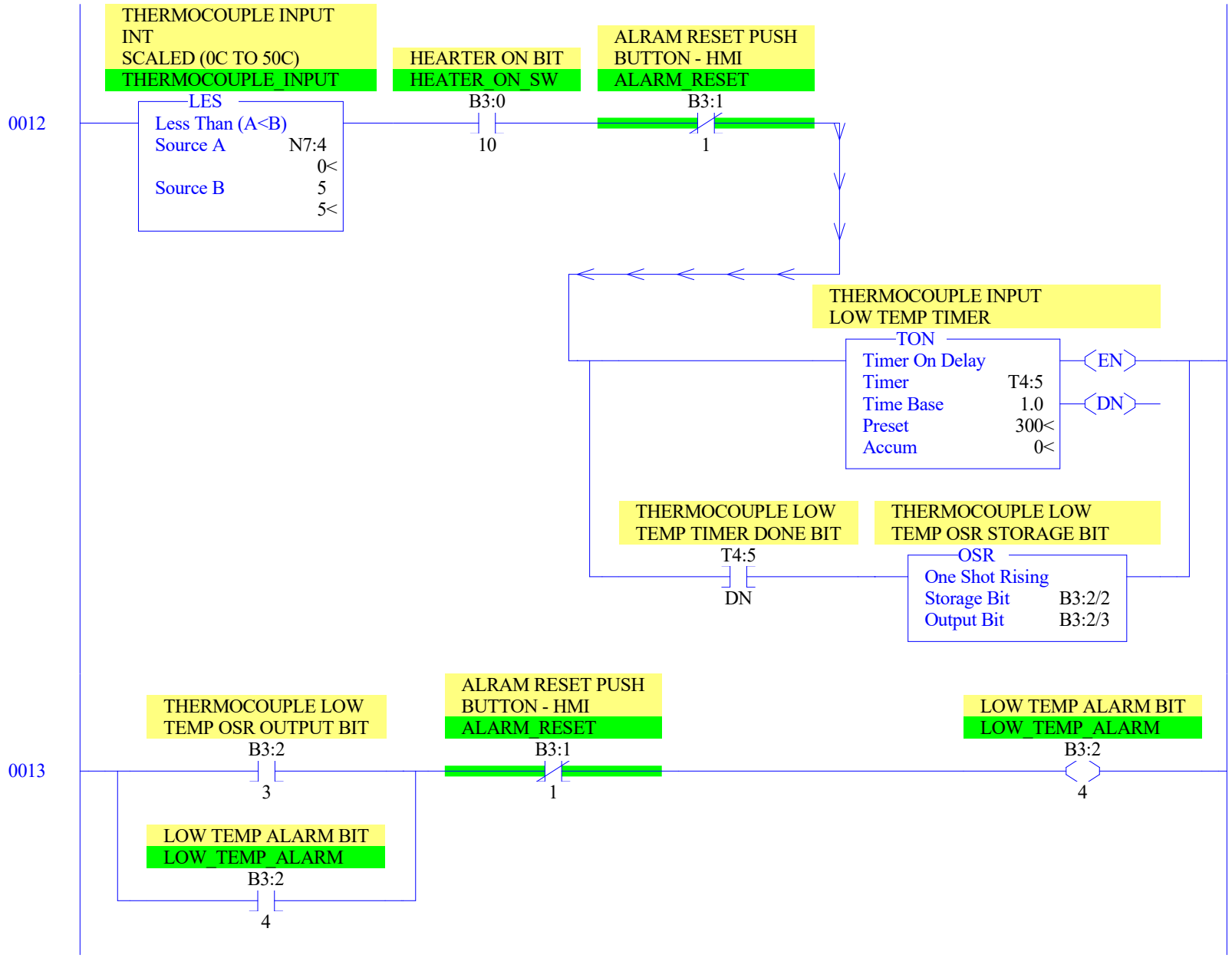

TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
LES
Less Than (A<B)
Source A F8:0 0.0<
Source B 10.0 10.0<
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
0002
LOW LOW LEVEL SWITCH
BIT
LL_LVL_SW
B3:0
6
LOW LOW LEVEL TIMER
TON
Timer On Delay
Timer T4:0
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
LOW LOW LEVEL TIMER
DN BIT
T4:0
DN
LOW LOW LEVEL OSR
STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:1/4
Output Bit B3:1/3
LOW LOW LEVEL OSR
OUTBIT BIT
B3:1
3
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
LEVEL ALARM
AUTOCLEAR
B3:4
15
LOW LOW LEVEL ALARM
OUTPUT BIT
LL_LVL_ALARM
B3:1
10
0003
LOW LOW LEVEL ALARM
OUTPUT BIT
LL_LVL_ALARM
B3:1
10

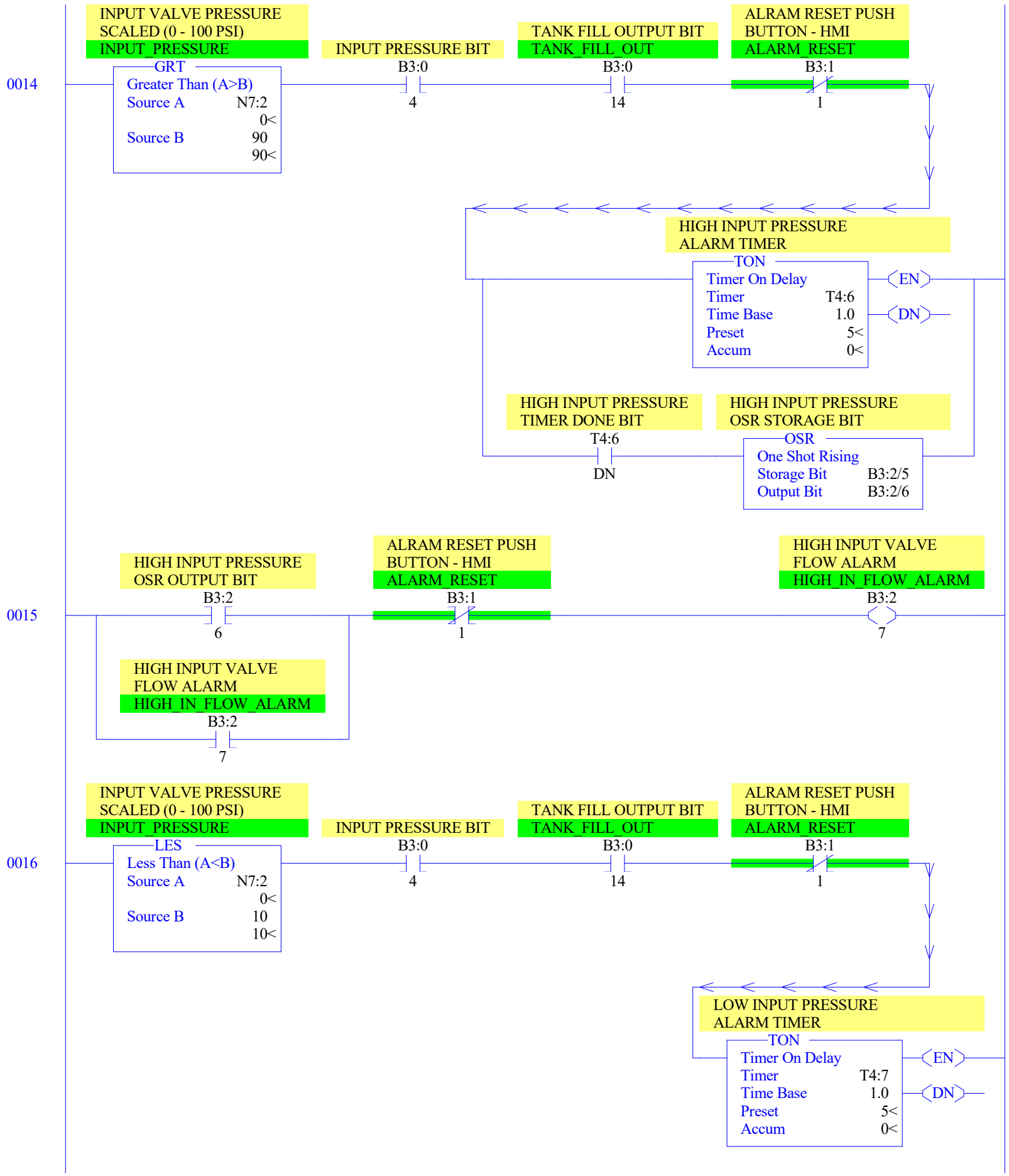

TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
LES
Less Than (A<B)
Source A F8:0 0.0<
Source B 20.0 20.0<
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
0004
LOW LEVEL SWITCH BIT
L_LVL_SW
B3:0
7
LOW LEVEL NOTIFICATION TIMER
TON
Timer On Delay
Timer T4:1
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
LOW LEVEL NOTIFICATION TIMER DONE BIT
T4:1
DN
LOW LEVEL NOTIFICATION STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:1/5
Output Bit B3:1/6
LOW LEVEL OSR OUTPUT BIT
B3:1
6
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
NOTIFICATION CLEAR PUSH BUTTON - HMI
NOTIFICATION_CLEAR
B3:1
2
LEVEL ALARM AUTOCLEAR
B3:4
15
0005
LOW LEVEL NOTIFICATION OUTPUT BIT
L_LVL_NOTIFICATION
B3:1
7
LOW LEVEL NOTIFICATION OUTPUT BIT
L_LVL_NOTIFICATION
B3:1
7

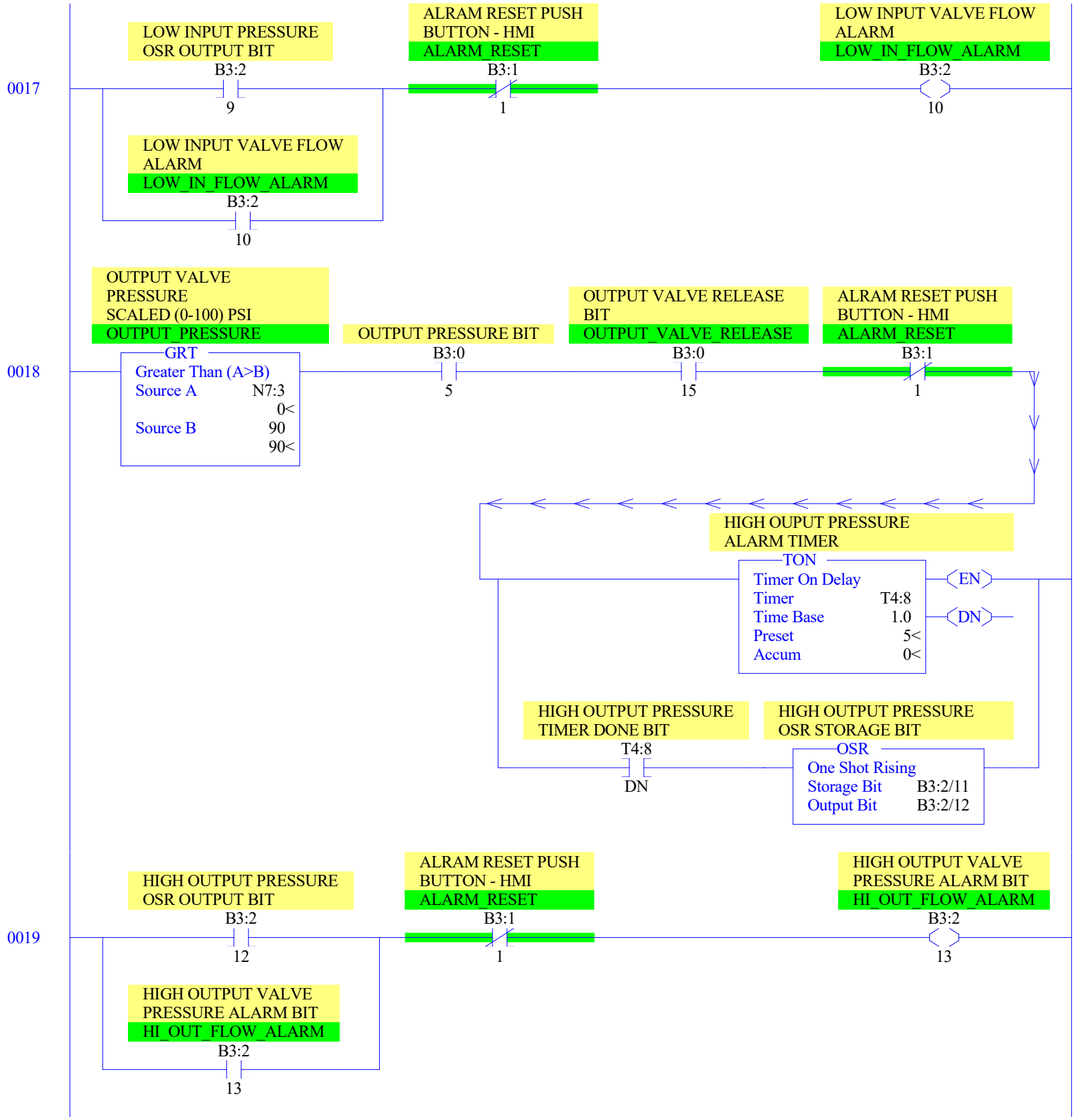

TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
GRT
Greater Than (A>B)
Source A F8:0
0.0<
Source B 90.0
90.0<
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
0006
HIGH HIGH LEVEL
SWITCH BIT
HH_LEVEL_SW
B3:0
9
HIGH HIGH LEVEL
TIMER
TON
Timer On Delay
Timer T4:2
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
HIGH HIGH TIMER DONE
BIT
T4:2
DN
HIGH HIGH LEVEL
OSR STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:1/8
Output Bit B3:1/9
HIGH HIGH LEVEL
TIMER OSR OUTPUT BIT
B3:1
9
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
LEVEL ALARM
AUTOCLEAR
B3:4
15
HIGH HIGH LEVEL
ALARM OUTPUT BIT
HH_LVL_ALARM
B3:1
11
0007
HIGH HIGH LEVEL
ALARM OUTPUT BIT
HH_LVL_ALARM
B3:1
11

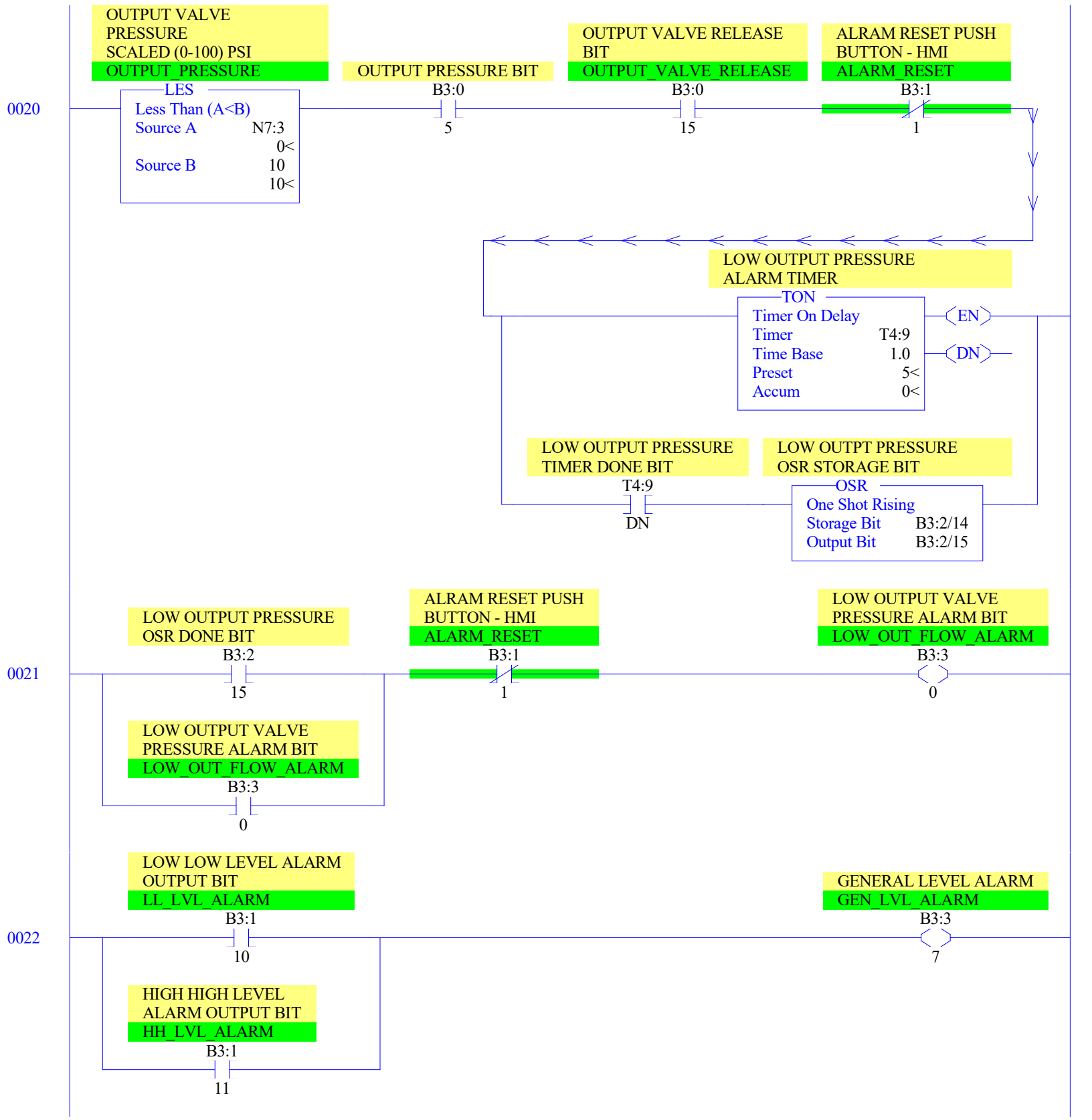

TANK LEVEL SENSOR
FLOAT
SCALED (0 - 100)%
TANK_LEVEL
GRT
Greater Than (A>B)
Source A F8:0
0.0<
Source B 80.0
80.0<
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
0008
HIGH LEVEL SWITCH
H_LVL_SW
B3:0
8
HIGH LEVEL
NOTIFICATION TIMER
TON
Timer On Delay
Timer T4:3
Time Base 1.0
Preset 10<
Accum 0<
EN
DN
HIGH LEVEL
NOTIFICATION TIMER
DONE BIT
T4:3
DN
HIGH LEVEL OSR
STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:1/12
Output Bit B3:1/13
HIGH LEVEL OSR DONE
BIT
B3:1
13
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
LEVEL ALARM
AUTOCLEAR
B3:4
15
LEVEL ALARM
AUTOCLEAR
B3:4
15
0009
HIGH LEVEL
NOTIFICATION OUTPUT
BIT
H_LVL_NOTIFICATION
B3:1
14
HIGH LEVEL
NOTIFICATION OUTPUT
BIT
H_LVL_NOTIFICATION
B3:1
14

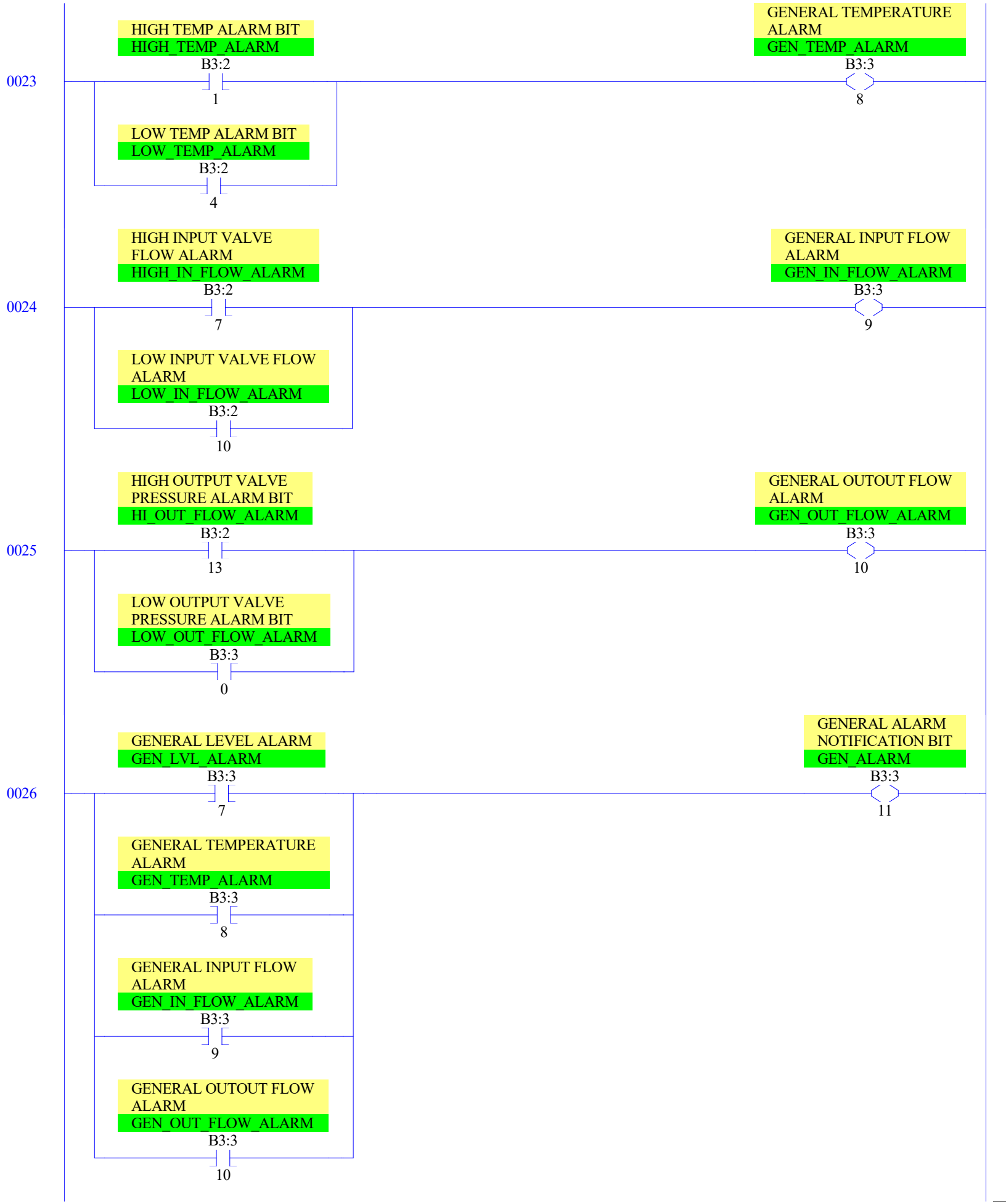

THERMOCOUPLE INPUT
INT
SCALED (0C TO 50C)
THERMOCOUPLE_INPUT
HEARTER ON BIT
HEATER_ON_SW
B3:0
10
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
0010
GRT
Greater Than (A>B)
Source A N7:4
0<
Source B 45
45<
THERMOCOUPLE INPUT
HIGH TEMP TIMER
TON
Timer On Delay
Timer T4:4
Time Base 1.0
Preset 300<
Accum 0<
EN
DN
THERMOCOUPLE HIGH
TEMP TIMER DONE BIT
T4:4
DN
THERMOCOUPLE INPUT
HIGH TEMP OSR
STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:1/15
Output Bit B3:2/0
THERMOCOUPLE INPUT
HIGH TEMP OSR OUTPUT
BIT
B3:2
0
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
HIGH TEMP ALARM BIT
HIGH_TEMP_ALARM
B3:2
1
0011
HIGH TEMP ALARM BIT
HIGH_TEMP_ALARM
B3:2
1

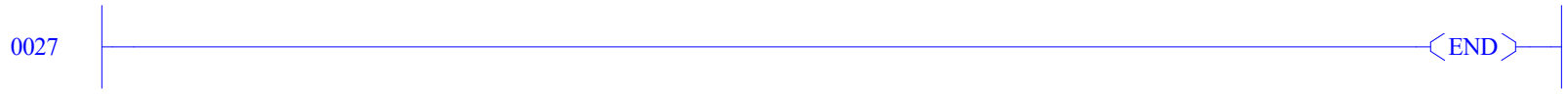

THERMOCOUPLE INPUT
INT
SCALED (0C TO 50C)
THERMOCOUPLE_INPUT
HEARTER ON BIT
HEATER_ON_SW
B3:0
10
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
0012
LES
Less Than (A<B)
Source A N7:4
0<
Source B 5
5<
THERMOCOUPLE INPUT
LOW TEMP TIMER
TON
Timer On Delay
Timer T4:5
Time Base 1.0
Preset 300<
Accum 0<
EN
DN
THERMOCOUPLE LOW
TEMP TIMER DONE BIT
T4:5
DN
THERMOCOUPLE LOW
TEMP OSR STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:2/2
Output Bit B3:2/3
THERMOCOUPLE LOW
TEMP OSR OUTPUT BIT
B3:2
3
ALRAM RESET PUSH
BUTTON - HMI
ALARM_RESET
B3:1
1
LOW TEMP ALARM BIT
LOW_TEMP_ALARM
B3:2
4
0013
LOW TEMP ALARM BIT
LOW_TEMP_ALARM
B3:2
4

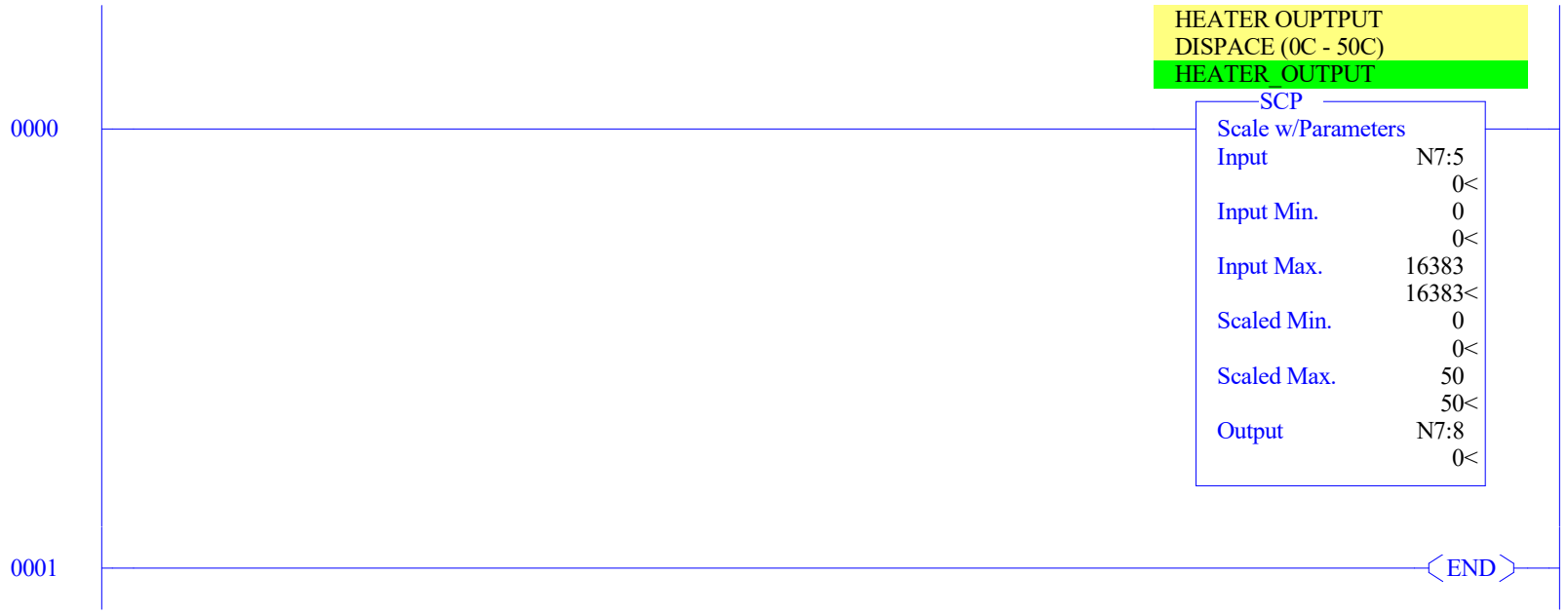

0014
INPUT VALVE PRESSURE SCALED (0 - 100 PSI)
INPUT_PRESSURE
GRT
Greater Than (A>B)
Source A N7:2
0<
Source B 90
90<
INPUT PRESSURE BIT
B3:0
4
TANK FILL OUTPUT BIT
TANK_FILL_OUT
B3:0
14
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
HIGH INPUT PRESSURE ALARM TIMER
TON
Timer On Delay
Timer T4:6
Time Base 1.0
Preset 5<
Accum 0<
EN
DN
HIGH INPUT PRESSURE TIMER DONE BIT
T4:6
DN
HIGH INPUT PRESSURE OSR STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:2/5
Output Bit B3:2/6
0015
HIGH INPUT PRESSURE OSR OUTPUT BIT
B3:2
6
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
HIGH INPUT VALVE FLOW ALARM
HIGH_IN_FLOW_ALARM
B3:2
7
HIGH INPUT VALVE FLOW ALARM
HIGH_IN_FLOW_ALARM
B3:2
7
0016
INPUT VALVE PRESSURE SCALED (0 - 100 PSI)
INPUT_PRESSURE
LES
Less Than (A<B)
Source A N7:2
0<
Source B 10
10<
INPUT PRESSURE BIT
B3:0
4
TANK FILL OUTPUT BIT
TANK_FILL_OUT
B3:0
14
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
LOW INPUT PRESSURE ALARM TIMER
TON
Timer On Delay
Timer T4:7
Time Base 1.0
Preset 5<
Accum 0<
EN
DN


0017
LOW INPUT PRESSURE OSR OUTPUT BIT
B3:2
9
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
LOW INPUT VALVE FLOW ALARM
LOW_IN_FLOW_ALARM
B3:2
10
LOW INPUT VALVE FLOW ALARM
LOW_IN_FLOW_ALARM
B3:2
10
0018
OUTPUT VALVE PRESSURE SCALED (0-100) PSI
OUTPUT_PRESSURE
GRT
Greater Than (A>B)
Source A N7:3
0<
Source B 90
90<
OUTPUT PRESSURE BIT
B3:0
5
OUTPUT VALVE RELEASE BIT
OUTPUT_VALVE_RELEASE
B3:0
15
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
HIGH OUPUT PRESSURE ALARM TIMER
TON
Timer On Delay
Timer T4:8
Time Base 1.0
Preset 5<
Accum 0<
EN
DN
HIGH OUTPUT PRESSURE TIMER DONE BIT
T4:8
DN
HIGH OUTPUT PRESSURE OSR STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:2/11
Output Bit B3:2/12
0019
HIGH OUTPUT PRESSURE OSR OUTPUT BIT
B3:2
12
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
HIGH OUTPUT VALVE PRESSURE ALARM BIT
HI_OUT_FLOW_ALARM
B3:2
13
HIGH OUTPUT VALVE PRESSURE ALARM BIT
HI_OUT_FLOW_ALARM
B3:2
13


OUTPUT VALVE PRESSURE SCALED (0-100) PSI
OUTPUT_PRESSURE
OUTPUT PRESSURE BIT
B3:0
5
OUTPUT VALVE RELEASE BIT
OUTPUT_VALVE_RELEASE
B3:0
15
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
0020
LES
Less Than (A<B)
Source A N7:3
0<
Source B 10
10<
LOW OUTPUT PRESSURE ALARM TIMER
TON
Timer On Delay
Timer T4:9
Time Base 1.0
Preset 5<
Accum 0<
EN
DN
LOW OUTPUT PRESSURE TIMER DONE BIT
T4:9
DN
LOW OUTPT PRESSURE OSR STORAGE BIT
OSR
One Shot Rising
Storage Bit B3:2/14
Output Bit B3:2/15
LOW OUTPUT PRESSURE OSR DONE BIT
B3:2
15
ALRAM RESET PUSH BUTTON - HMI
ALARM_RESET
B3:1
1
LOW OUTPUT VALVE PRESSURE ALARM BIT
LOW_OUT_FLOW_ALARM
B3:3
0
0021
LOW OUTPUT VALVE PRESSURE ALARM BIT
LOW_OUT_FLOW_ALARM
B3:3
0
LOW LOW LEVEL ALARM OUTPUT BIT
LL_LVL_ALARM
B3:1
10
GENERAL LEVEL ALARM
GEN_LVL_ALARM
B3:3
7
0022
HIGH HIGH LEVEL ALARM OUTPUT BIT
HH_LVL_ALARM
B3:1
11


0023
HIGH TEMP ALARM BIT
HIGH_TEMP_ALARM
B3:2
1
LOW TEMP ALARM BIT
LOW_TEMP_ALARM
B3:2
4
GENERAL TEMPERATURE ALARM
GEN_TEMP_ALARM
B3:3
8
0024
HIGH INPUT VALVE FLOW ALARM
HIGH_IN_FLOW_ALARM
B3:2
7
LOW INPUT VALVE FLOW ALARM
LOW_IN_FLOW_ALARM
B3:2
10
GENERAL INPUT FLOW ALARM
GEN_IN_FLOW_ALARM
B3:3
9
0025
HIGH OUTPUT VALVE PRESSURE ALARM BIT
HI_OUT_FLOW_ALARM
B3:2
13
LOW OUTPUT VALVE PRESSURE ALARM BIT
LOW_OUT_FLOW_ALARM
B3:3
0
GENERAL OUTOUT FLOW ALARM
GEN_OUT_FLOW_ALARM
B3:3
10
0026
GENERAL LEVEL ALARM
GEN_LVL_ALARM
B3:3
7
GENERAL TEMPERATURE ALARM
GEN_TEMP_ALARM
B3:3
8
GENERAL INPUT FLOW ALARM
GEN_IN_FLOW_ALARM
B3:3
9
GENERAL OUTOUT FLOW ALARM
GEN_OUT_FLOW_ALARM
B3:3
10
GENERAL ALARM NOTIFICATION BIT
GEN_ALARM
B3:3
11


0027
END


HEATER OUPTPUT
DISPACE (0C - 50C)
HEATER_OUTPUT
0000
SCP
Scale w/Parameters
Input N7:5
0<
Input Min. 0
0<
Input Max. 16383
16383<
Scaled Min. 0
0<
Scaled Max. 50
50<
Output N7:8
0<
0001
END

Data File O0 (bin) -- OUTPUT

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
O:0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
O:0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
O:0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
O:0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
O:2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-OW16 - 16-Output (RLY) 240 VAC
O:4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-OF4 - 4-Channel Analog I/V Output Module
O:4.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-OF4 - 4-Channel Analog I/V Output Module
O:4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-OF4 - 4-Channel Analog I/V Output Module
O:4.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-OF4 - 4-Channel Analog I/V Output Module

Data File I1 (bin) -- INPUT

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
I:0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
I:0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
I:0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
I:0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B
I:0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B-Analog
I:0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763 MicroLogix 1100 Series B-Analog
I:1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IQ16 - 16-Input 10/30 VDC
I:3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IF4 - Analog 4 Chan. Input
I:3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IF4 - Analog 4 Chan. Input
I:3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IF4 - Analog 4 Chan. Input
I:3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IF4 - Analog 4 Chan. Input
I:3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IF4 - Analog 4 Chan. Input
I:3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IF4 - Analog 4 Chan. Input
I:3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-IF4 - Analog 4 Chan. Input
I:4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-OF4 - 4-Channel Analog I/V Output Module
I:4.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1762-OF4 - 4-Channel Analog I/V Output Module

Main

Processor Mode S:1/0 - S:1/4 = Remote Program Mode
On Power up Go To Run (Mode Behavior) S:1/12 = 0
First Pass S:1/15 = No
Free Running Clock S:4 = 0000-0000-0000-0000

Proc

OS Catalog Number S:57 = 1100
OS Series S:58 = A
OS FRS S:59 =
Processor Catalog Number S:60 =
Processor Series S:61 = A
Processor FRN S:62 =
User Program Type S:63 = 8001h
Compiler Revision Number S:64 =

Scan Times

Maximum (x10 ms) S:22 = 0
Watchdog (x10 ms) S:3 (high byte) = 10
Last 100 uSec Scan Time S:35 = 0
Scan Toggle Bit S:33/9 = 0

Math

Math Overflow Selected S:2/14 = 0
Overflow Trap S:5/0 = 0
Carry S:0/0 = 0
Overflow S:0/1 = 0
Zero Bit S:0/2 = 0
Sign Bit S:0/3 = 0
Math Register (lo word) S:13 = 0
Math Register (high word) S:14-S:13 = 0
Math Register (32 Bit) S:14-S:13 = 0

Chan 0

Processor Mode S:1/0- S:1/4 = Remote Program Mode
Node Address S:15 (low byte) = 0
Baud Rate S:15 (high byte) = ?
Channel Mode S:33/3 = 0
Comms Active S:33/4 = 0
Incoming Cmd Pending S:33/0 = 0
Msg Reply Pending S:33/1 = 0
Outgoing Msg Cmd Pending S:33/2 = 0

Debug

Suspend Code S:7 = 0
Suspend File S:8 = 0

Errors

Fault Override At Power Up S:1/8 = 0
Startup Protection Fault S:1/9 = 0
Major Error Halt S:1/13 = 0
Overflow Trap S:5/0 = 0
Control Register Error S:5/2 = 0
Major Error Executing User Fault Rtn. S:5/3 = 0
Battery Low S:5/11 = 0
Input Filter Selection Modified S:5/13 = 0
ASCII String Manipulation error S:5/15 = 0
Fault Routine S:29 = 0
Major Error S:6 = 0h
Error Description:

Protection

Deny Future Access S:1/14 = No
Data File Overwrite Protection Lost S:36/10 = False

Mem Module

Memory Module Loaded On Boot S:5/8 = 0
Password Mismatch S:5/9 = 0
Load Memory Module On Memory Error S:1/10 = 0
Load Memory Module Always S:1/11 = 0
On Power up Go To Run (Mode Behavior) S:1/12 = 0
Program Compare S:2/9 = 0
Data File Overwrite Protection Lost S:36/10 = 0

Forces

Forces Enabled S:1/5 = Yes
Forces Installed S:1/6 = No

Data File B3 (bin) -- BINARY

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	(Symbol) Description
B3:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B3:1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B3:2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B3:3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
B3:4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Data File T4 -- TIMER

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol) Description
T4:0	0	0	0	1.0 sec	10	0	LOW LOW LEVEL TIMER
T4:1	0	0	0	1.0 sec	10	0	LOW LEVEL NOTIFICATION TIMER
T4:2	0	0	0	1.0 sec	10	0	HIGH HIGH LEVEL TIMER
T4:3	0	0	0	1.0 sec	10	0	HIGH LEVEL NOTIFICATION TIMER
T4:4	0	0	0	1.0 sec	300	0	THERMOCOUPLE INPUT HIGH TEMP TIMER
T4:5	0	0	0	1.0 sec	300	0	THERMOCOUPLE INPUT LOW TEMP TIMER
T4:6	0	0	0	1.0 sec	5	0	HIGH INPUT PRESSURE ALARM TIMER
T4:7	0	0	0	1.0 sec	5	0	LOW INPUT PRESSURE ALARM TIMER
T4:8	0	0	0	1.0 sec	5	0	HIGH OUPUT PRESSURE ALARM TIMER
T4:9	0	0	0	1.0 sec	5	0	LOW OUTPUT PRESSURE ALARM TIMER
T4:10	0	0	0	1.0 sec	15	0	TANK FILL TIMER
T4:11	0	0	0	1.0 sec	15	0	TANK DRAIN DELAY TIMER
T4:12	0	0	0	1.0 sec	10	0	LEVEL ALARM AUTOCLEAR TIMER

Data File C5 -- COUNTER

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C5:0	0	0	0	0	0	0	0	0		

Data File R6 -- CONTROL

Offset	EN	EU	DN	EM	ER	UL	IN	FD	LEN	POS	(Symbol)	Description
R6:0	0	0	0	0	0	0	0	0	0	0		

Data File N7 (dec) -- INTEGER

Offset	0	1	2	3	4	5	6	7	8	9
N7:0	0	0	0	0	0	0	0	0	0	

Data File F8 -- FLOAT

Offset	0	1	2	3	4
F8:0	0				

Data File PD9

Offset	TM	AM	CM	OL	RG	SC	TF	DA	DB	UL	LL	SP	PV	DN	EN	SPS	KC	Ti	TD	MAXS	MINS	ZCD
PD9:0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	50	0	0

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
B3:0/0			SYSTEM ON PB BIT		
B3:0/1			SYSTEM ON PB ONE SHOT		
B3:0/2			SYSTEM OFF BIT		
B3:0/3			SYSTEM OFF PB ONE SHOT		
B3:0/4			INPUT PRESSURE BIT		
B3:0/5			OUTPUT PRESSURE BIT		
B3:0/6	LL_LVL_SW	Global	LOW LOW LEVEL SWITCH BIT		
B3:0/7	L_LVL_SW	Global	LOW LEVEL SWITCH BIT		
B3:0/8	H_LVL_SW	Global	HIGH LEVEL SWITCH		
B3:0/9	HH_LEVEL_SW	Global	HIGH HIGH LEVEL SWITCH BIT		
B3:0/10	HEATER_ON_SW	Global	HEARTER ON BIT		
B3:0/11	HEATER_OFF_SW	Global	HEATER OFF BIT		
B3:0/12			HEATER ON SWITCH ONE SHOT		
B3:0/13			HEATER OFF SWITCH ONE SHOT		
B3:0/14	TANK_FILL_OUT	Global	TANK FILL OUTPUT BIT		
B3:0/15	OUTPUT_VALVE_RELEASE	Global	OUTPUT VALVE RELEASE BIT		
B3:1/0	ALARM_HORN	Global	ALARM HORN OUTPUT BIT		
B3:1/1	ALARM_RESET	Global	ALRAM RESET PUSH BUTTON - HMI		
B3:1/2	NOTIFICATION_CLEAR	Global	NOTIFICATION CLEAR PUSH BUTTON - HMI		
B3:1/3			LOW LOW LEVEL OSR OUTBIT BIT		
B3:1/4			LOW LOW LEVEL OSR STORAGE BIT		
B3:1/5			LOW LEVEL NOTIFICATION STORAGE BIT		
B3:1/6			LOW LEVEL OSR OUTPUT BIT		
B3:1/7	L_LVL_NOTIFICATION	Global	LOW LEVEL NOTIFICATION OUTPUT BIT		
B3:1/8			HIGH HIGH LEVEL OSR STORAGE BIT		
B3:1/9			HIGH HIGH LEVEL TIMER OSR OUTPUT BIT		
B3:1/10	LL_LVL_ALARM	Global	LOW LOW LEVEL ALARM OUTPUT BIT		
B3:1/11	HH_LVL_ALARM	Global	HIGH HIGH LEVEL ALARM OUTPUT BIT		
B3:1/12			HIGH LEVEL OSR STORAGE BIT		
B3:1/13			HIGH LEVEL OSR DONE BIT		
B3:1/14	H_LVL_NOTIFICATION	Global	HIGH LEVEL NOTIFICATION OUTPUT BIT		
B3:1/15			THERMOCOUPLE INPUT HIGH TEMP OSR STORAGE BIT		
B3:2/0			THERMOCOUPLE INPUT HIGH TEMP OSR OUTPUT BIT		
B3:2/1	HIGH_TEMP_ALARM	Global	HIGH TEMP ALARM BIT		
B3:2/2			THERMOCOUPLE LOW TEMP OSR STORAGE BIT		
B3:2/3			THERMOCOUPLE LOW TEMP OSR OUTPUT BIT		
B3:2/4	LOW_TEMP_ALARM	Global	LOW TEMP ALARM BIT		
B3:2/5			HIGH INPUT PRESSURE OSR STORAGE BIT		
B3:2/6			HIGH INPUT PRESSURE OSR OUTPUT BIT		
B3:2/7	HIGH_IN_FLOW_ALARM	Global	HIGH INPUT VALVE FLOW ALARM		
B3:2/8			LOW INPUT PRESSURE OSR STORAGE BIT		
B3:2/9			LOW INPUT PRESSURE OSR OUTPUT BIT		
B3:2/10	LOW_IN_FLOW_ALARM	Global	LOW INPUT VALVE FLOW ALARM		
B3:2/11			HIGH OUTPUT PRESSURE OSR STORAGE BIT		
B3:2/12			HIGH OUTPUT PRESSURE OSR OUTPUT BIT		
B3:2/13	HI_OUT_FLOW_ALARM	Global	HIGH OUTPUT VALVE PRESSURE ALARM BIT		
B3:2/14			LOW OUTPT PRESSURE OSR STORAGE BIT		
B3:2/15			LOW OUTPUT PRESSURE OSR DONE BIT		
B3:3/0	LOW_OUT_FLOW_ALARM	Global	LOW OUTPUT VALVE PRESSURE ALARM BIT		
B3:3/1			TANK FILL ONE SHOT		
B3:3/2			TANK FILL TRIGGER		
B3:3/3	SYS_ON_HMI_PB	Global	SYSTEM ON HMI PUSH BUTTON		
B3:3/4			SYSTEM ON BUTTON ONS		
B3:3/5	SYS_OFF_MHI_PB	Global	SYSTEM OFF HMI PUSH BUTTON		
B3:3/6			SYSTEM OFF BUTTON ONS		
B3:3/7	GEN_LVL_ALARM	Global	GENERAL LEVEL ALARM		
B3:3/8	GEN_TEMP_ALARM	Global	GENERAL TEMPERATURE ALARM		
B3:3/9	GEN_IN_FLOW_ALARM	Global	GENERAL INPUT FLOW ALARM		
B3:3/10	GEN_OUT_FLOW_ALARM	Global	GENERAL OUTOUT FLOW ALARM		
B3:3/11	GEN_ALARM	Global	GENERAL ALARM NOTIFICATION BIT		
B3:3/12			GENERAL ALARM ONE SHOT		
B3:3/13			TANK DRAIN ONE SHOT		
B3:3/14			TANK DRAIN ONE SHOT		
B3:3/15	HEATER_HAND_HMI_PB	Global	HEATER HAND HMI PUSH BUTTON		
B3:4/0			HEATER HAND ONS PB		
B3:4/1			HEATER AUTO DRAIN ONS		
B3:4/2			HEATER AUTO DRAIN TRIGGER		
B3:4/3	HEATER_AUTO_HMI_PB	Global	HEATER HMI AUTO PUSH BUTTON		
B3:4/4	DRAIN_HMI_PB	Global	MANUAL TANK DRAIN HMI PUSH BUTTON		
B3:4/5			MAUNAL TANK DRAIN ONS		
B3:4/6			MANUAL TANK DRAIN TRIGGER		
B3:4/7			ALARM HORM TRIGGER ONE SHOT		
B3:4/8			ALARM HORN TRIGGER		
B3:4/9			SYSTEM ERROR ONE SHOT		
B3:4/10	ALARM_SILENCE	Global	ALARM SILENCE HMI PUSH BUTTON		
B3:4/11	ALARM_RESET_HMI_PB	Global	ALARM RESET HMI PUSH BUTTON		
B3:4/12			ALARM RESET HMI PB ONE SHOT		
B3:4/13			HEATER AUTO PUSH BUTTON ONS		
B3:4/14			LEVEL ALARM AUTOCLEAR TIMER		
B3:4/15			LEVEL ALARM AUTOCLEAR		
F8:0	TANK_LEVEL	Global	TANK LEVEL SENSOR FLOAT SCALED (0 - 100)%		
F8:0/0			TANK LEVEL SENSOR FLOAT SCALED (0 - 100)%		
I:1/0			SYSTEM ON PUSH BUTTON		
I:1/1			SYSTEM OFF PUSH BUTTON		

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
I:1/2			INPUT PRESSURE SWITCH		
I:1/3			OUTPUT PRESSURE SWITCH		
I:1/4			LOW LOW LEVEL SWITCH		
I:1/5			LOW LEVEL SWITCH		
I:1/6			HIGH LEVEL SWITCH		
I:1/7			HIGH HIGH LEVEL SWITCH		
I:1/8			HEARTER ON SWITCH		
I:1/9			HEATER OFF SWITCH		
I:3.0			INPUT PRESSURE SENSOR		
I:3.1			OUTPUT PRESSURE SENSOR		
I:3.2			THERMOCOUPLE SENSOR INPUT		
I:3.3			TANK LEVEL SENSOR INPUT		
N7:0	SYSTEM_STATUS	Global	SYSTEM STATUS 0 = OFF 1 = ON 2 = ERROR		
N7:0/0			SYSTEM STATUS 0 = OFF 1 = ON 2 = ERROR		
N7:0/1			HEATER STATUS 0 = OFF 1 = HAND 2 = AUTO		
N7:0/2			INPUT VALVE PRESSURE SCALED (0 - 100 PSI)		
N7:0/3			OUTPUT VALVE PRESSURE SCALED (0-100) PSI		
N7:0/4			THERMOCOUPLE INPUT INT SCALED (0C TO 50C)		
N7:0/5			HEATER CONTROL VARIABLE		
N7:0/6	HMI_AUTO_TEMP_IN	Global	AUTO TEMPERATURE HMI INPUT		
N7:1	HEATER_STATUS	Global	HEATER STATUS 0 = OFF 1 = HAND 2 = AUTO		
N7:2	INPUT_PRESSURE	Global	INPUT VALVE PRESSURE SCALED (0 - 100 PSI)		
N7:3	OUTPUT_PRESSURE	Global	OUTPUT VALVE PRESSURE SCALED (0-100) PSI		
N7:4	THERMOCOUPLE_INPUT	Global	THERMOCOUPLE INPUT INT SCALED (0C TO 50C)		
N7:5			HEATER CONTROL VARIABLE		
N7:6			AUTO TEMPERATURE CONTROL SCALED(0 - 16383)		
N7:7			AUTO TEMPERATURE CONTROL (0C - 50C)		
N7:8	HEATER_OUTPUT	Global	HEATER OUPTPUT DISPACE (0C - 50C)		
O:2/0			TANK FILL PUMP OUTPUT		
O:2/1			OUTPUT VALVE RELEASE		
O:2/2			ALARM HORN OUTPUT		
O:4.0			HEATER SIGNAL OUTPUT SCALED (0 - 16383) 14 BITS		
PD9:0					
PD9:0.SPS			AUTO TEMPERATURE CONTROL SCALED(0 - 16383) SET POINT		
S:0			Arithmetic Flags		
S:0/0			Processor Arithmetic Carry Flag		
S:0/1			Processor Arithmetic Underflow/ Overflow Flag		
S:0/2			Processor Arithmetic Zero Flag		
S:0/3			Processor Arithmetic Sign Flag		
S:1			Processor Mode Status/ Control		
S:1/0			Processor Mode Bit 0		
S:1/1			Processor Mode Bit 1		
S:1/2			Processor Mode Bit 2		
S:1/3			Processor Mode Bit 3		
S:1/4			Processor Mode Bit 4		
S:1/5			Forces Enabled		
S:1/6			Forces Present		
S:1/7			Comms Active		
S:1/8			Fault Override at Powerup		
S:1/9			Startup Protection Fault		
S:1/10			Load Memory Module on Memory Error		
S:1/11			Load Memory Module Always		
S:1/12			Load Memory Module and RUN		
S:1/13			Major Error Halted		
S:1/14			Access Denied		
S:1/15			First Pass		
S:2/0			STI Pending		
S:2/1			STI Enabled		
S:2/2			STI Executing		
S:2/3			Index Addressing File Range		
S:2/4			Saved with Debug Single Step		
S:2/5			DH-485 Incoming Command Pending		
S:2/6			DH-485 Message Reply Pending		
S:2/7			DH-485 Outgoing Message Command Pending		
S:2/15			Comms Servicing Selection		
S:3			Current Scan Time/ Watchdog Scan Time		
S:4			Time Base		
S:5/0			Overflow Trap		
S:5/2			Control Register Error		
S:5/3			Major Err Detected Executing UserFault Routine		
S:5/4			M0-M1 Referenced on Disabled Slot		
S:5/8			Memory Module Boot		
S:5/9			Memory Module Password Mismatch		
S:5/10			STI Overflow		
S:5/11			Battery Low		
S:6			Major Error Fault Code		
S:7			Suspend Code		
S:8			Suspend File		
S:9			Active Nodes		
S:10			Active Nodes		
S:11			I/O Slot Enables		
S:12			I/O Slot Enables		
S:13			Math Register		
S:14			Math Register		

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
S:15			Node Address/ Baud Rate		
S:16			Debug Single Step Rung		
S:17			Debug Single Step File		
S:18			Debug Single Step Breakpoint Rung		
S:19			Debug Single Step Breakpoint File		
S:20			Debug Fault/ Powerdown Rung		
S:21			Debug Fault/ Powerdown File		
S:22			Maximum Observed Scan Time		
S:23			Average Scan Time		
S:24			Index Register		
S:25			I/O Interrupt Pending		
S:26			I/O Interrupt Pending		
S:27			I/O Interrupt Enabled		
S:28			I/O Interrupt Enabled		
S:29			User Fault Routine File Number		
S:30			STI Setpoint		
S:31			STI File Number		
S:32			I/O Interrupt Executing		
S:33			Extended Proc Status Control Word		
S:33/0			Incoming Command Pending		
S:33/1			Message Reply Pending		
S:33/2			Outgoing Message Command Pending		
S:33/3			Selection Status User/DF1		
S:33/4			Communicat Active		
S:33/5			Communicat Servicing Selection		
S:33/6			Message Servicing Selection Channel 0		
S:33/7			Message Servicing Selection Channel 1		
S:33/8			Interrupt Latency Control Flag		
S:33/9			Scan Toggle Flag		
S:33/10			Discrete Input Interrupt Reconfigur Flag		
S:33/11			Online Edit Status		
S:33/12			Online Edit Status		
S:33/13			Scan Time Timebase Selection		
S:33/14			DTR Control Bit		
S:33/15			DTR Force Bit		
S:34			Pass-thru Disabled		
S:34/0			Pass-Thru Disabled Flag		
S:34/1			DH+ Active Node Table Enable Flag		
S:34/2			Floating Point Math Flag Disable,Fl		
S:35			Last 1 ms Scan Time		
S:36			Extended Minor Error Bits		
S:36/8			DII Lost		
S:36/9			STI Lost		
S:36/10			Memory Module Data File Overwrite Protection		
S:37			Clock Calendar Year		
S:38			Clock Calendar Month		
S:39			Clock Calendar Day		
S:40			Clock Calendar Hours		
S:41			Clock Calendar Minutes		
S:42			Clock Calendar Seconds		
S:43			STI Interrupt Time		
S:44			I/O Event Interrupt Time		
S:45			DII Interrupt Time		
S:46			Discrete Input Interrupt- File Number		
S:47			Discrete Input Interrupt- Slot Number		
S:48			Discrete Input Interrupt- Bit Mask		
S:49			Discrete Input Interrupt- Compare Value		
S:50			Processor Catalog Number		
S:51			Discrete Input Interrupt- Return Number		
S:52			Discrete Input Interrupt- Accumulat		
S:53			Reserved/ Clock Calendar Day of the Week		
S:55			Last DII Scan Time		
S:56			Maximum Observed DII Scan Time		
S:57			Operating System Catalog Number		
S:58			Operating System Series		
S:59			Operating System FRN		
S:61			Processor Series		
S:62			Processor Revision		
S:63			User Program Type		
S:64			User Program Functional Index		
S:65			User RAM Size		
S:66			Flash EEPROM Size		
S:67			Channel 0 Active Nodes		
S:68			Channel 0 Active Nodes		
S:69			Channel 0 Active Nodes		
S:70			Channel 0 Active Nodes		
S:71			Channel 0 Active Nodes		
S:72			Channel 0 Active Nodes		
S:73			Channel 0 Active Nodes		
S:74			Channel 0 Active Nodes		
S:75			Channel 0 Active Nodes		
S:76			Channel 0 Active Nodes		
S:77			Channel 0 Active Nodes		
S:78			Channel 0 Active Nodes		

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
S:79			Channel 0 Active Nodes		
S:80			Channel 0 Active Nodes		
S:81			Channel 0 Active Nodes		
S:82			Channel 0 Active Nodes		
S:83			DH+ Active Nodes		
S:84			DH+ Active Nodes		
S:85			DH+ Active Nodes		
S:86			DH+ Active Nodes		
T4:0			LOW LOW LEVEL TIMER		
T4:0/DN			LOW LOW LEVEL TIMER DN BIT		
T4:1			LOW LEVEL NOTIFICATION TIMER		
T4:1/DN			LOW LEVEL NOTIFICATION TIMER DONE BIT		
T4:2			HIGH HIGH LEVEL TIMER		
T4:2/DN			HIGH HIGH TIMER DONE BIT		
T4:3			HIGH LEVEL NOTIFICATION TIMER		
T4:3/DN			HIGH LEVEL NOTIFICATION TIMER DONE BIT		
T4:4			THERMOCOUPLE INPUT HIGH TEMP TIMER		
T4:4/DN			THERMOCOUPLE HIGH TEMP TIMER DONE BIT		
T4:5			THERMOCOUPLE INPUT LOW TEMP TIMER		
T4:5/DN			THERMOCOUPLE LOW TEMP TIMER DONE BIT		
T4:6			HIGH INPUT PRESSURE ALARM TIMER		
T4:6/DN			HIGH INPUT PRESSURE TIMER DONE BIT		
T4:7			LOW INPUT PRESSURE ALARM TIMER		
T4:7/DN			LOW INPUT PRESSURE TIMER DONE BIT		
T4:8			HIGH OUPUT PRESSURE ALARM TIMER		
T4:8/DN			HIGH OUTPUT PRESSURE TIMER DONE BIT		
T4:9			LOW OUTPUT PRESSURE ALARM TIMER		
T4:9/DN			LOW OUTPUT PRESSURE TIMER DONE BIT		
T4:10			TANK FILL TIMER		
T4:10/DN			TANK FILL TIMER DONE BIT		
T4:11			TANK DRAIN DELAY TIMER		
T4:11/DN			TANK DRAIN TIMER DONE BIT		
T4:12			LEVEL ALARM AUTOCLEAR TIMER		
T4:12/DN			LEVEL ALARM AUTOCLEAR DONE BIT		
U:3			DIGITAL INPUT		
U:4			DIGITAL OUTPUT		
U:5			ANALOG INPUT		
U:6			ANALOG OUTPUT		
U:7			CONTROLS		
U:8			ALARMS		
U:9			DISPLAY		

Instruction Comment Database

Address	Instruction	Description

Symbol Group Database

Group_Name	Description