

RSLogix Micro Project Report



Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 475 Instruction Words Used - 141 Data Table Words Used

Total Memory Left: 6181 Instruction Words Left

Program Files: 10

Data Files: 15

Program ID: dd27

I/O Configuration

0	Bul.1763	MicroLogix 1100 Series B
1		
2		
3		
4		

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

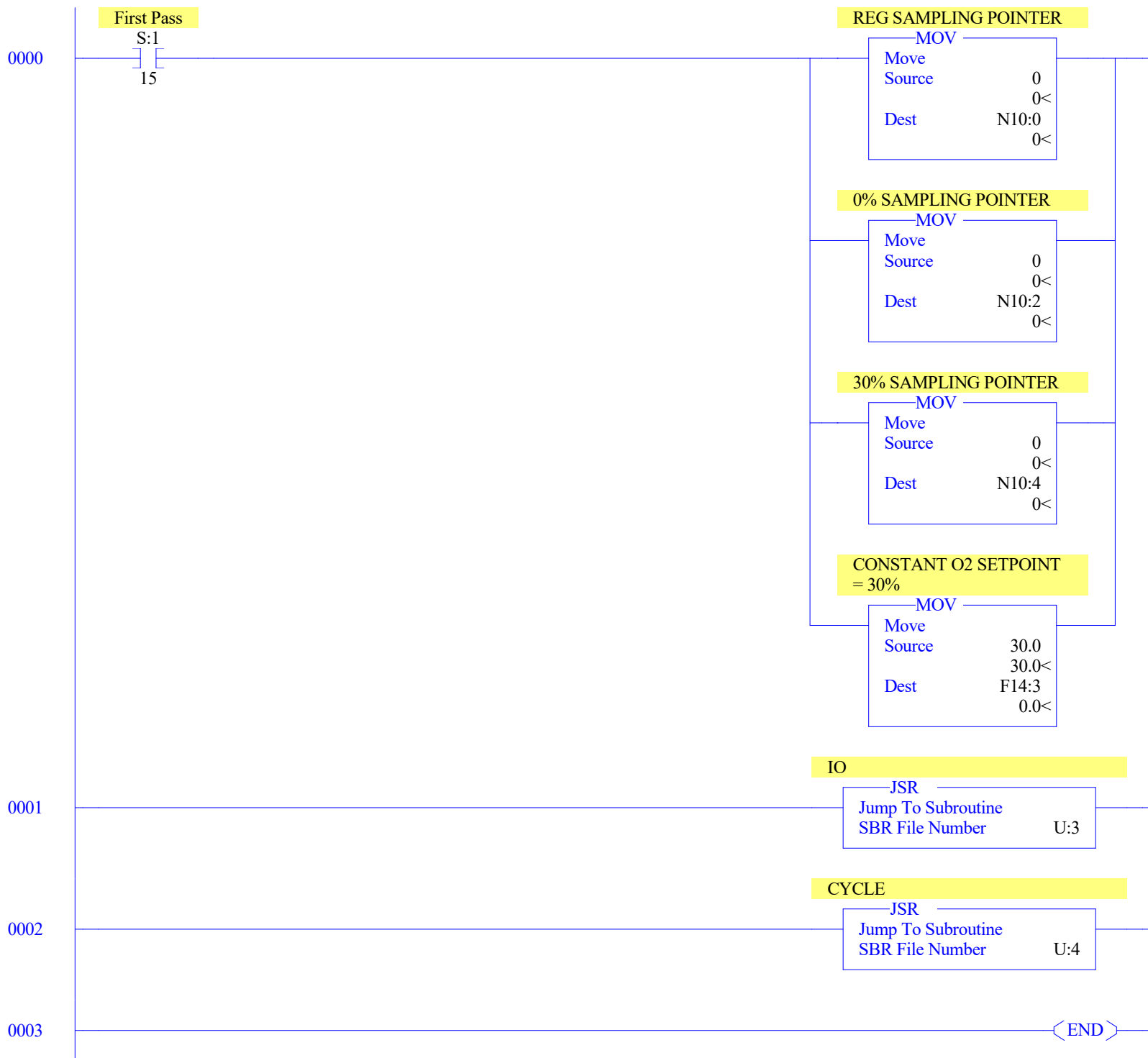
Hardware Address: 00:00:00:00:00:00
IP Address: 0.0.0.0
Subnet Mask: 0.0.0.0
Gateway Address: 0.0.0.0
Msg Connection Timeout (x 1mS): 15000
Msg Reply Timeout (x mS): 3000
Inactivity Timeout (x Min): 30
Bootp Enable: Yes
Dhcp Enable No
SNMP Enable: No
HTTP Enable: Yes
Auto Negotiate Enable: Yes
Port Speed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

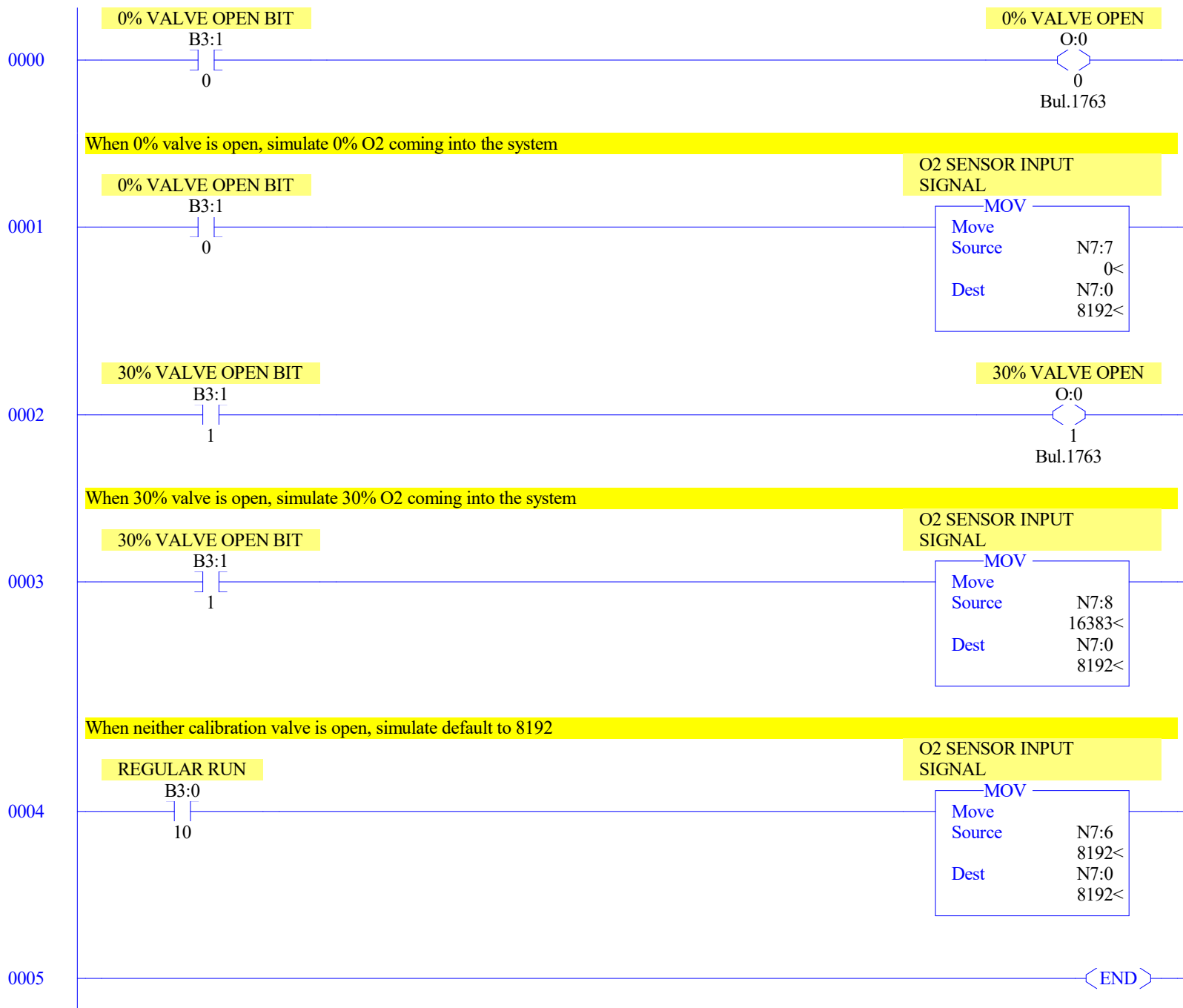
Program File List

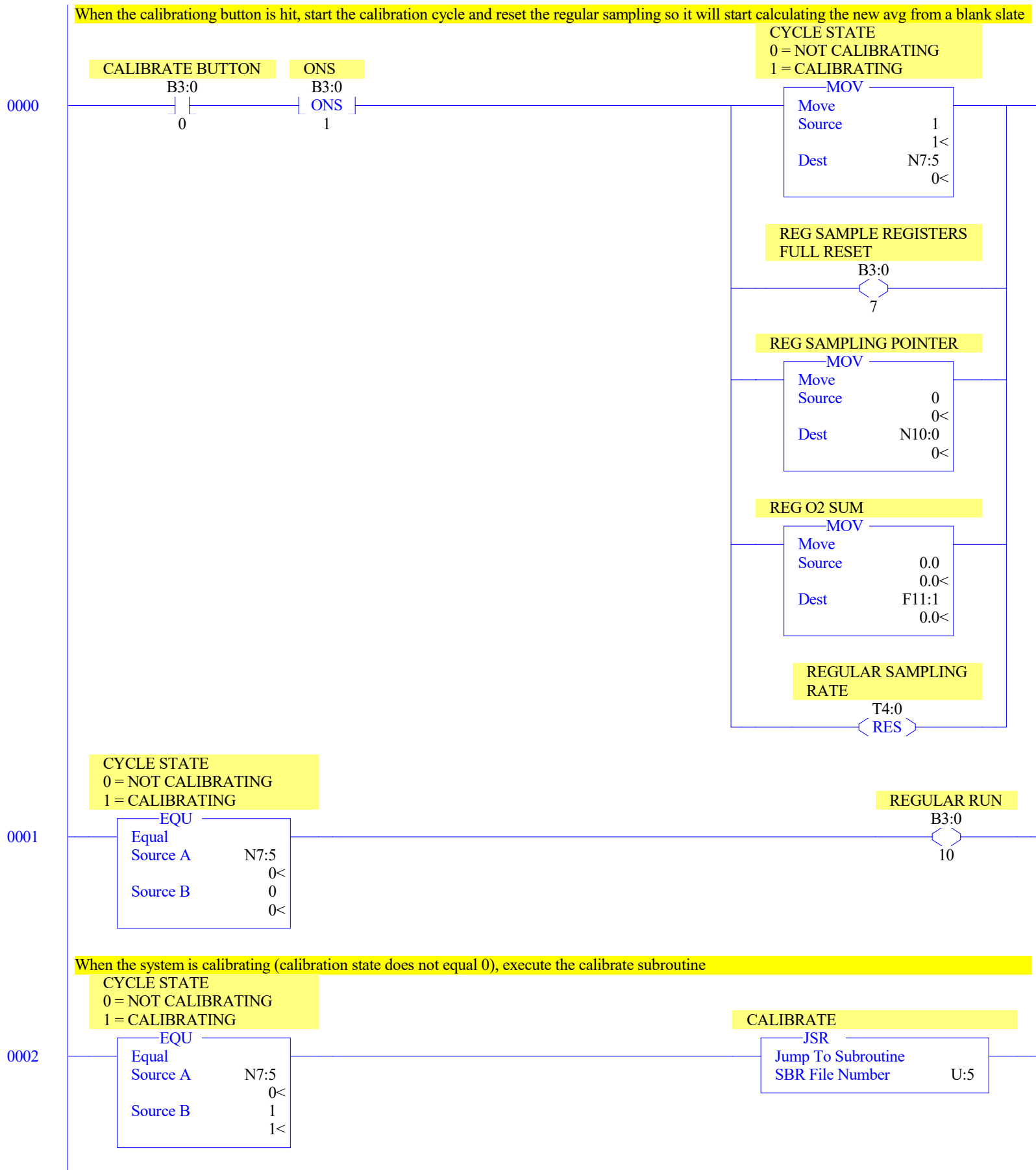
Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	4	No	92
IO	3	LADDER	6	No	101
CYCLE	4	LADDER	5	No	150
CALIBRATE	5	LADDER	15	No	450
SAMPLE	6	LADDER	7	No	458
0% SAMPLE	7	LADDER	7	No	404
30% SAMPLE	8	LADDER	7	No	404
CALIB CALC	9	LADDER	6	No	102

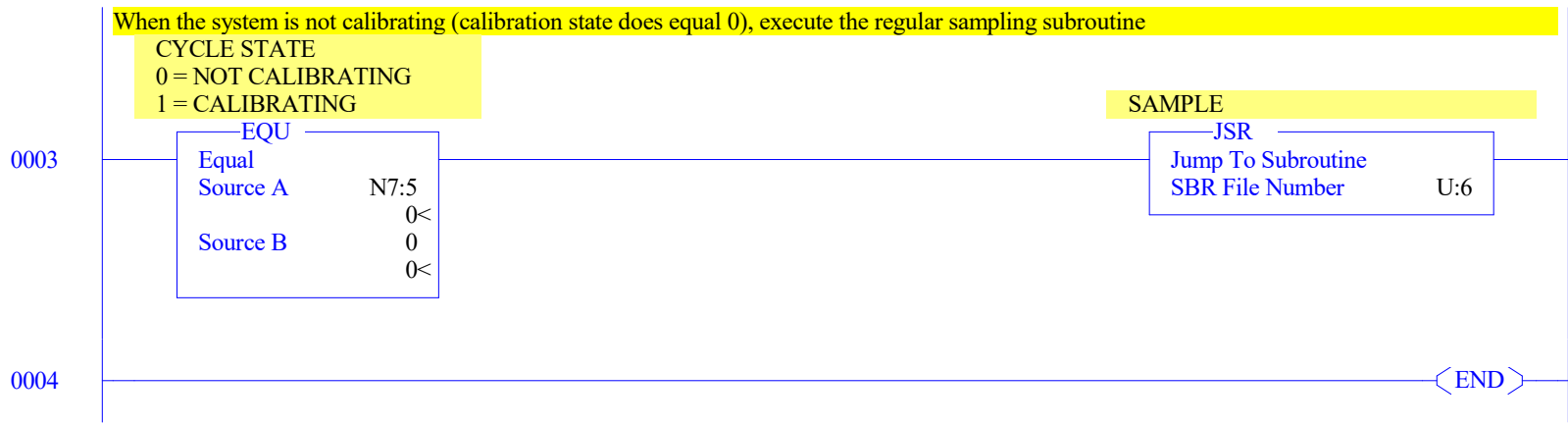
Data File List

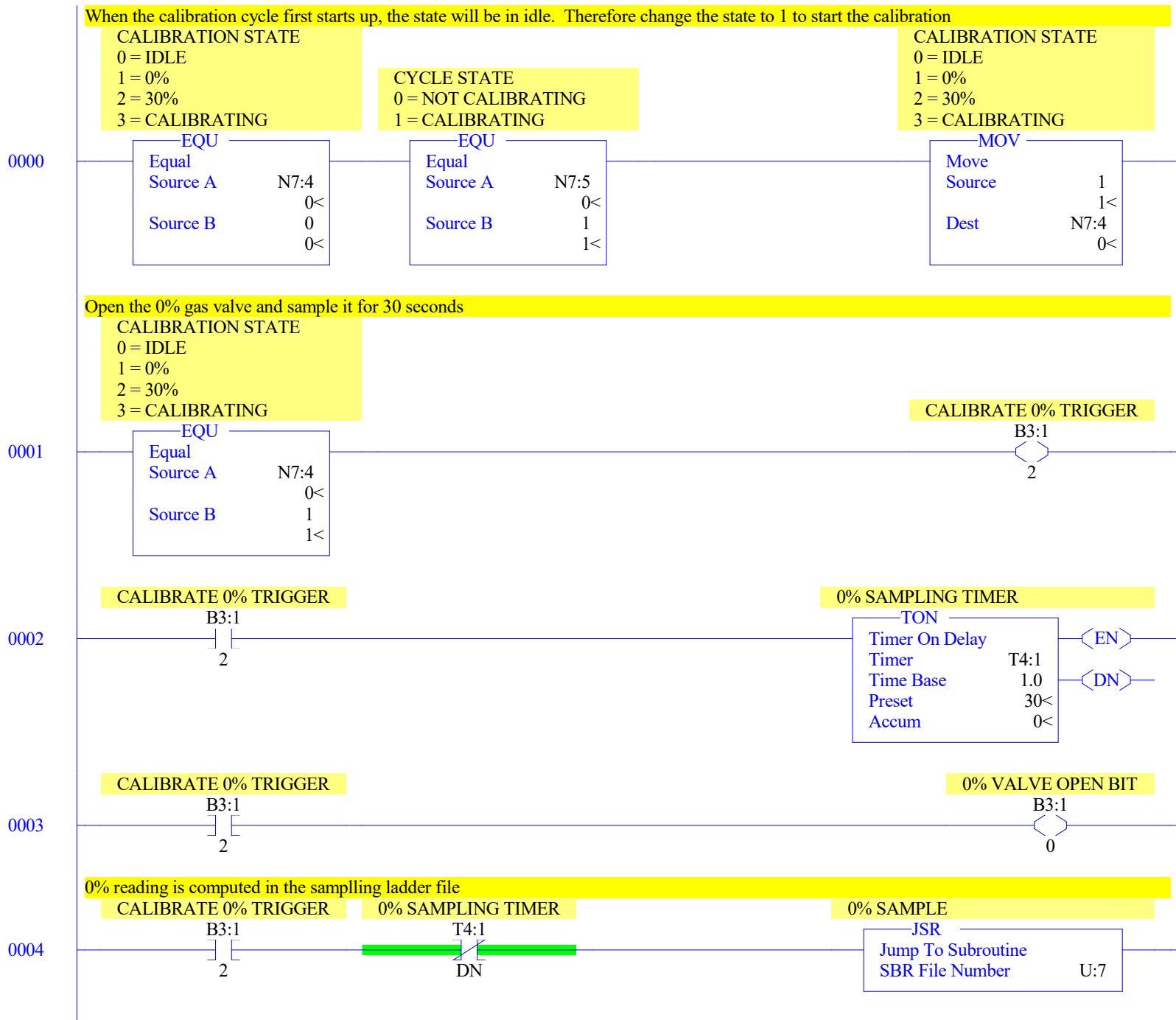
Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	12	4	O:3
INPUT	1	I	Global	No	18	6	I:5
STATUS	2	S	Global	No	0	66	S:65
BINARY	3	B	Global	No	3	3	B3:2
TIMER	4	T	Global	No	15	5	T4:4
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	9	9	N7:8
FLOAT	8	F	Global	No	6	3	F8:2
O2 SAMPLES	9	F	Global	No	20	10	F9:9
SAMP STTNG	10	N	Global	No	6	6	N10:5
AVGS	11	F	Global	No	18	9	F11:8
0% SAMPLES	12	F	Global	No	10	5	F12:4
30% SAMPLE	13	F	Global	No	10	5	F13:4
CALIB MATH	14	F	Global	No	8	4	F14:3











When the 0% sampling time ends, move on to 30% sampling, reset the 0% timer, and reset the 0% average calculation

CALIBRATION STATE
 0 = IDLE
 1 = 0%
 2 = 30%
 3 = CALIBRATING

0% SAMPLING TIMER

T4:1
 DN

MOV
 Move
 Source 2
 2<
 Dest N7:4
 0<

0% SAMPLING TIMER

T4:1
 RES

0% SAMPLING RATE

T4:3
 RES

0% SAMPLE REGISTERS
 FULL RESET

B3:0
 8

0% SAMPLING POINTER

MOV
 Move
 Source 0
 0<
 Dest N10:2
 0<

0% O2 SUM

MOV
 Move
 Source 0.0
 0.0<
 Dest F11:4
 0.0<

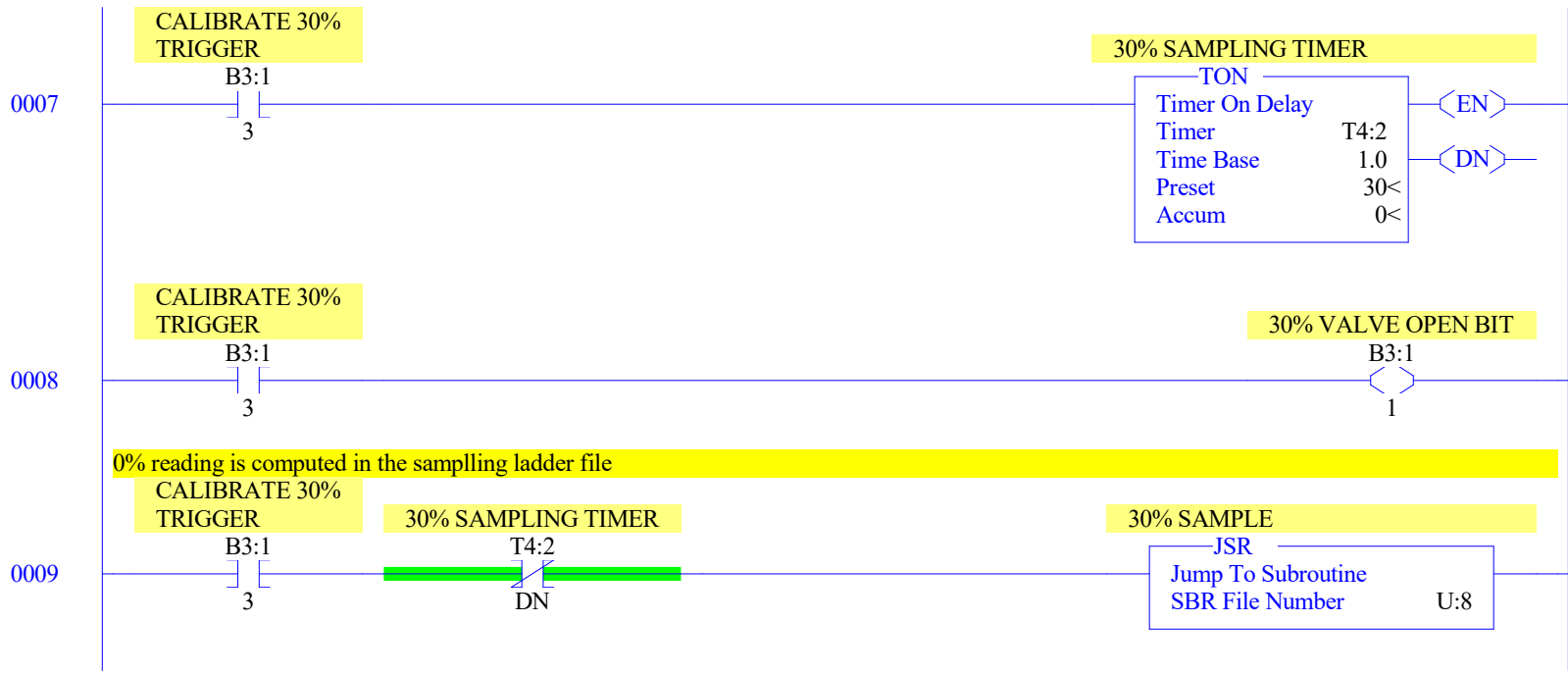
Open the 30% gas valve and sample it for 30 seconds

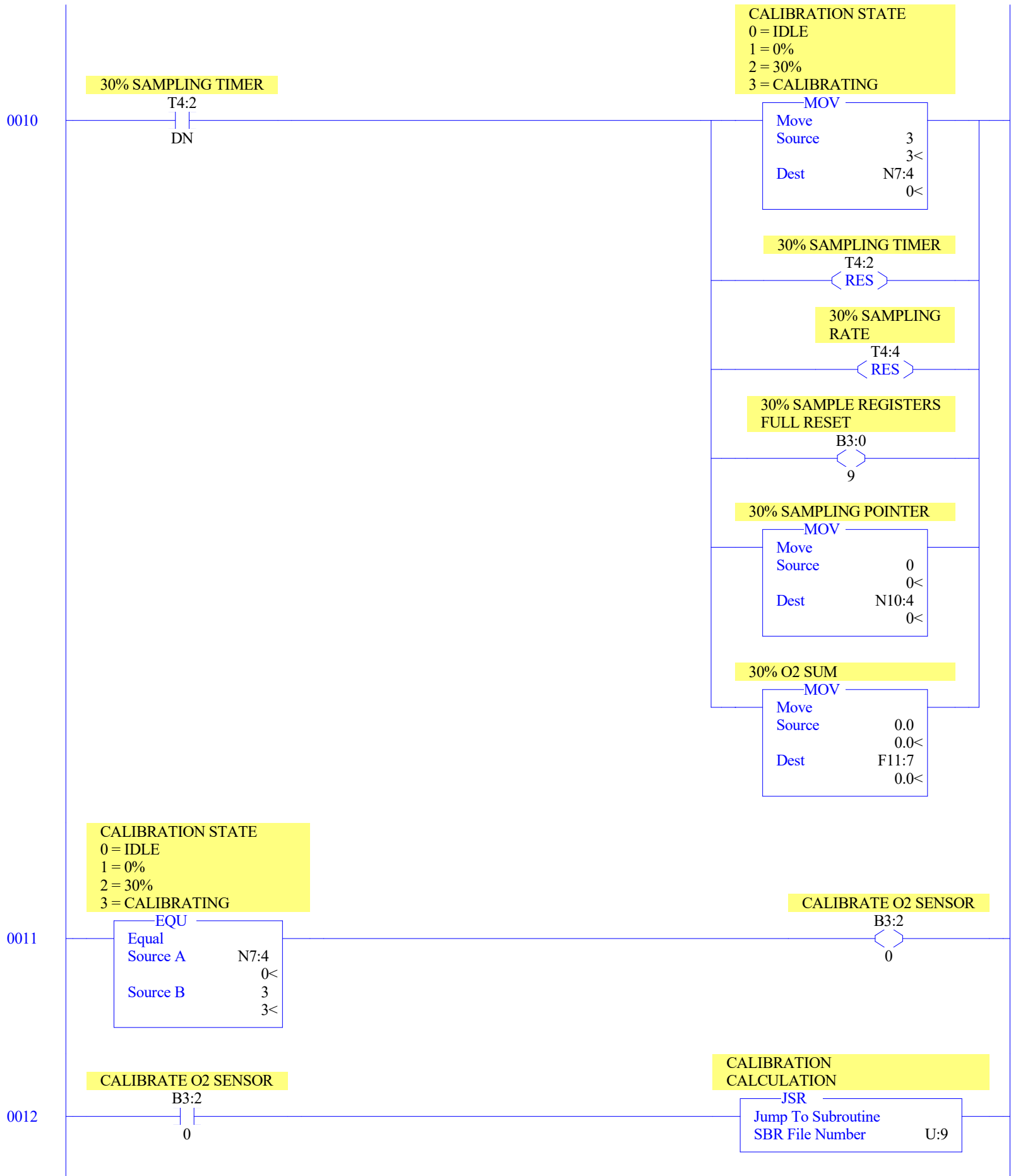
CALIBRATION STATE
 0 = IDLE
 1 = 0%
 2 = 30%
 3 = CALIBRATING

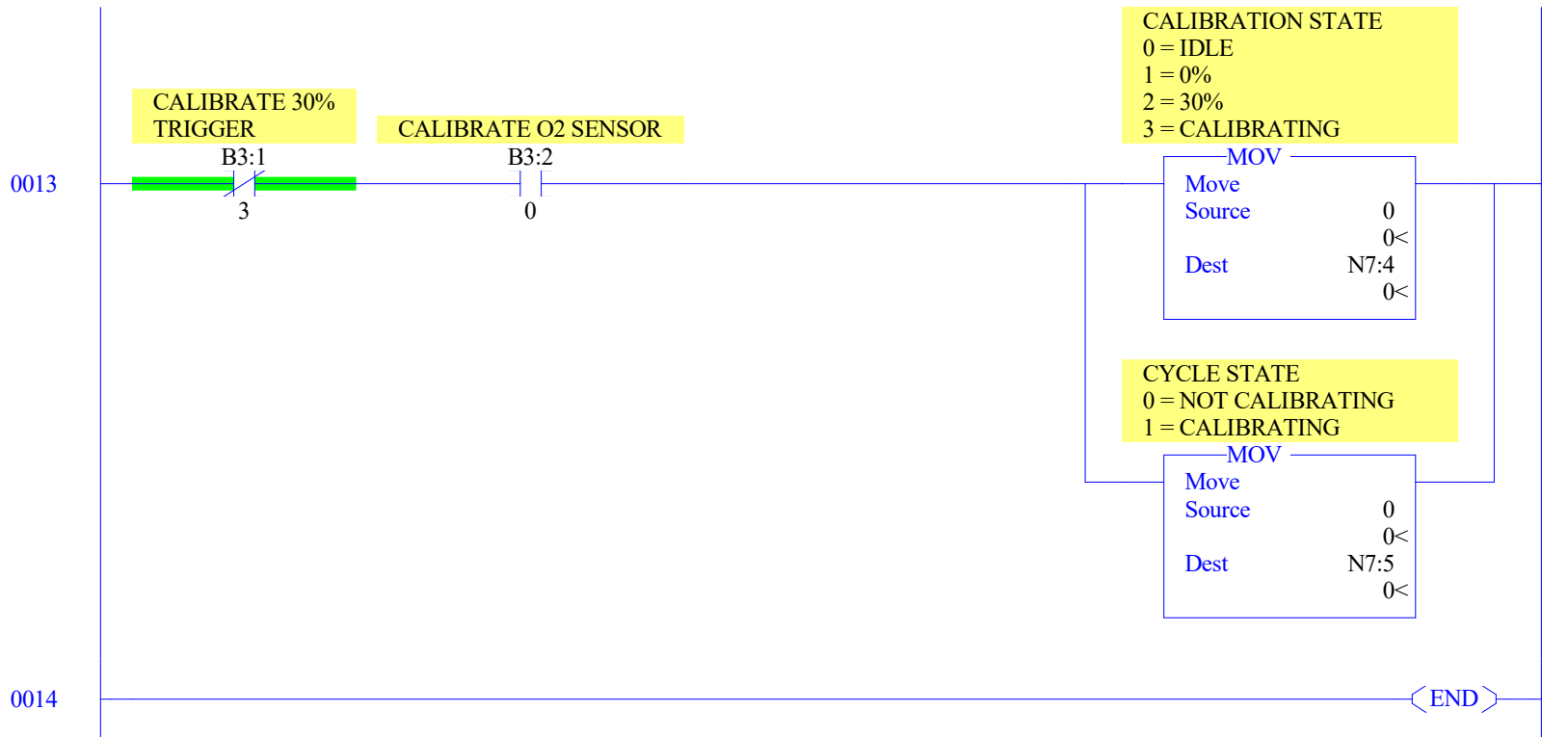
CALIBRATE 30%
 TRIGGER

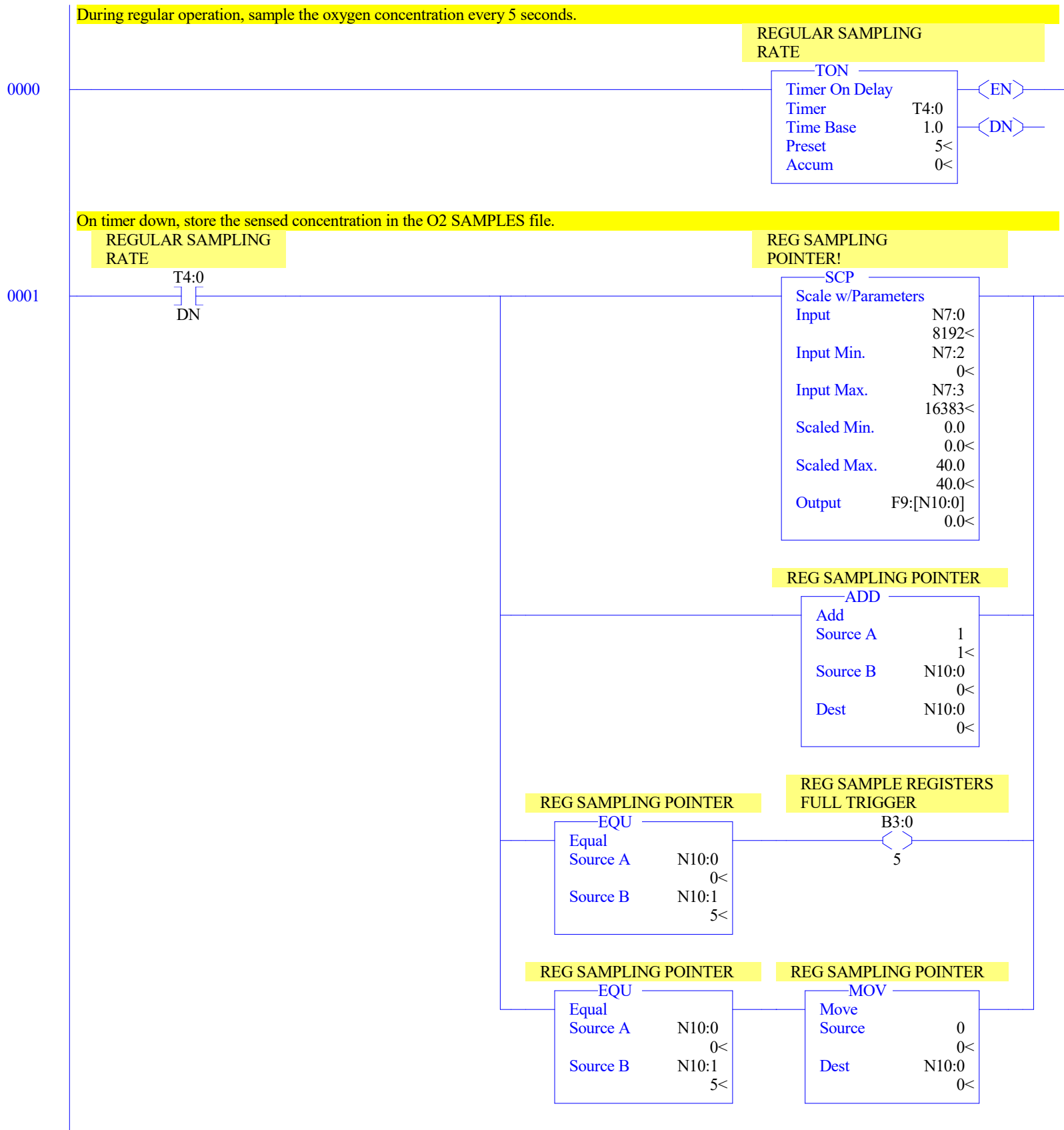
EQU
 Equal
 Source A N7:4
 0<
 Source B 2
 2<

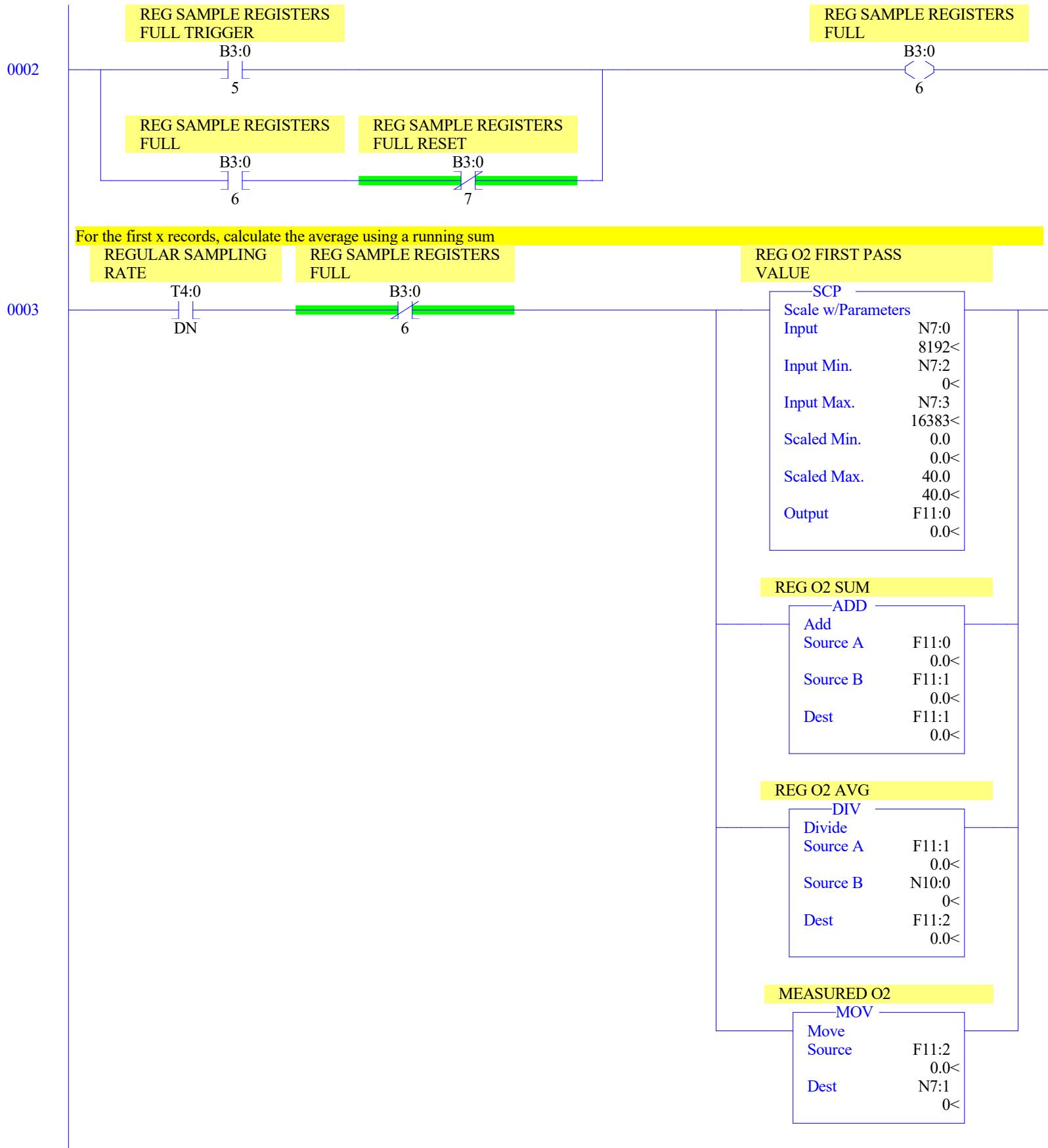
B3:1
 3

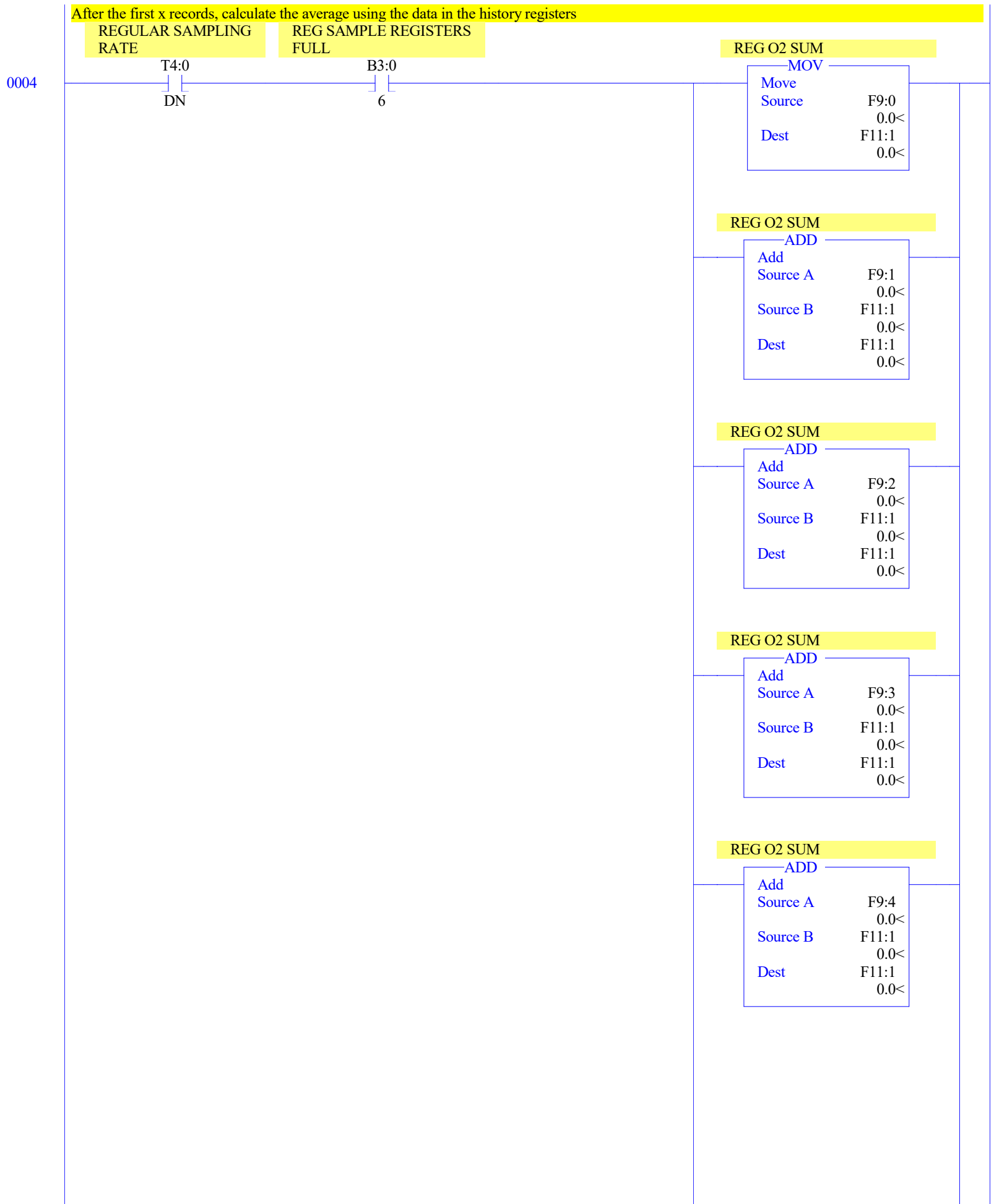


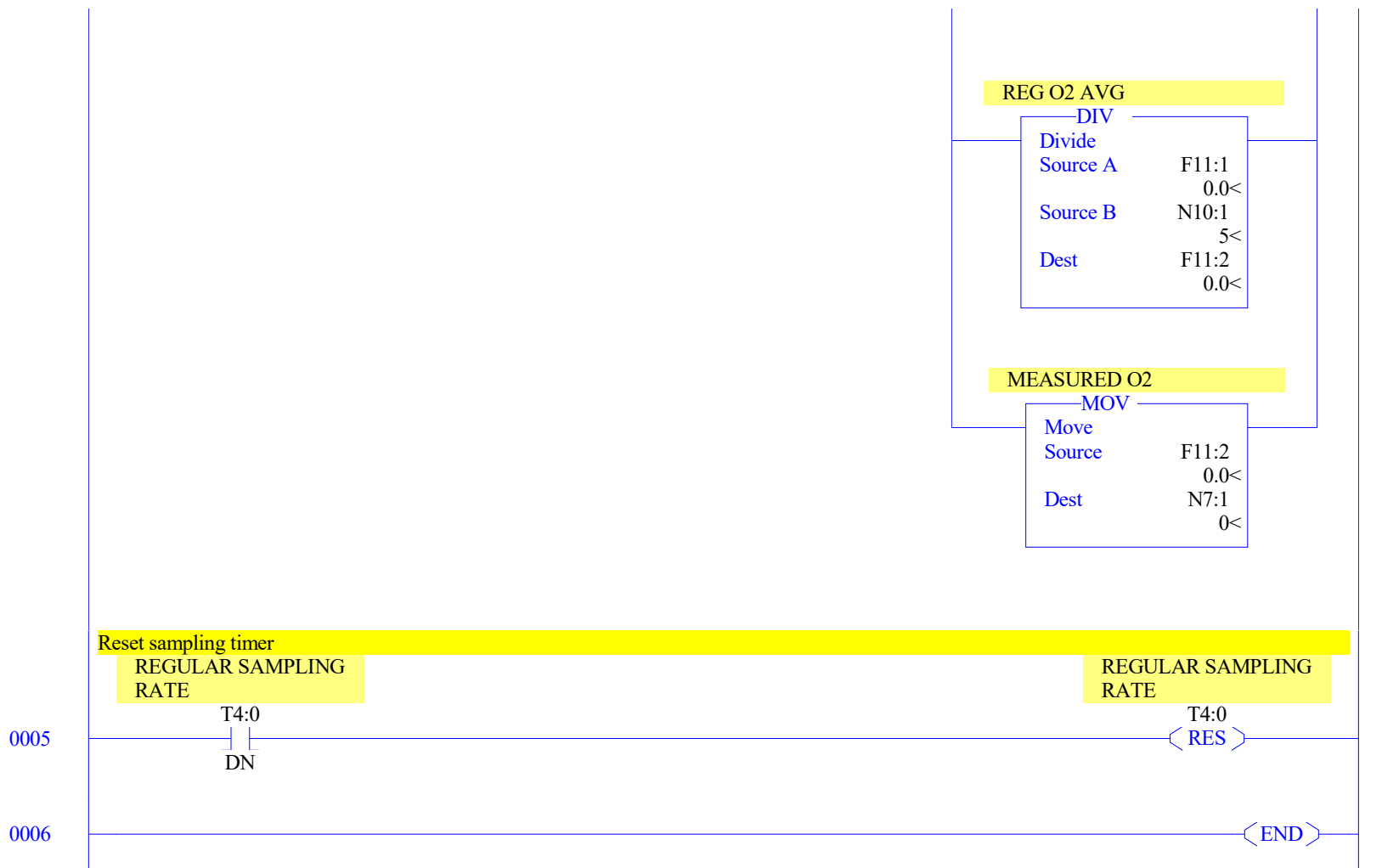


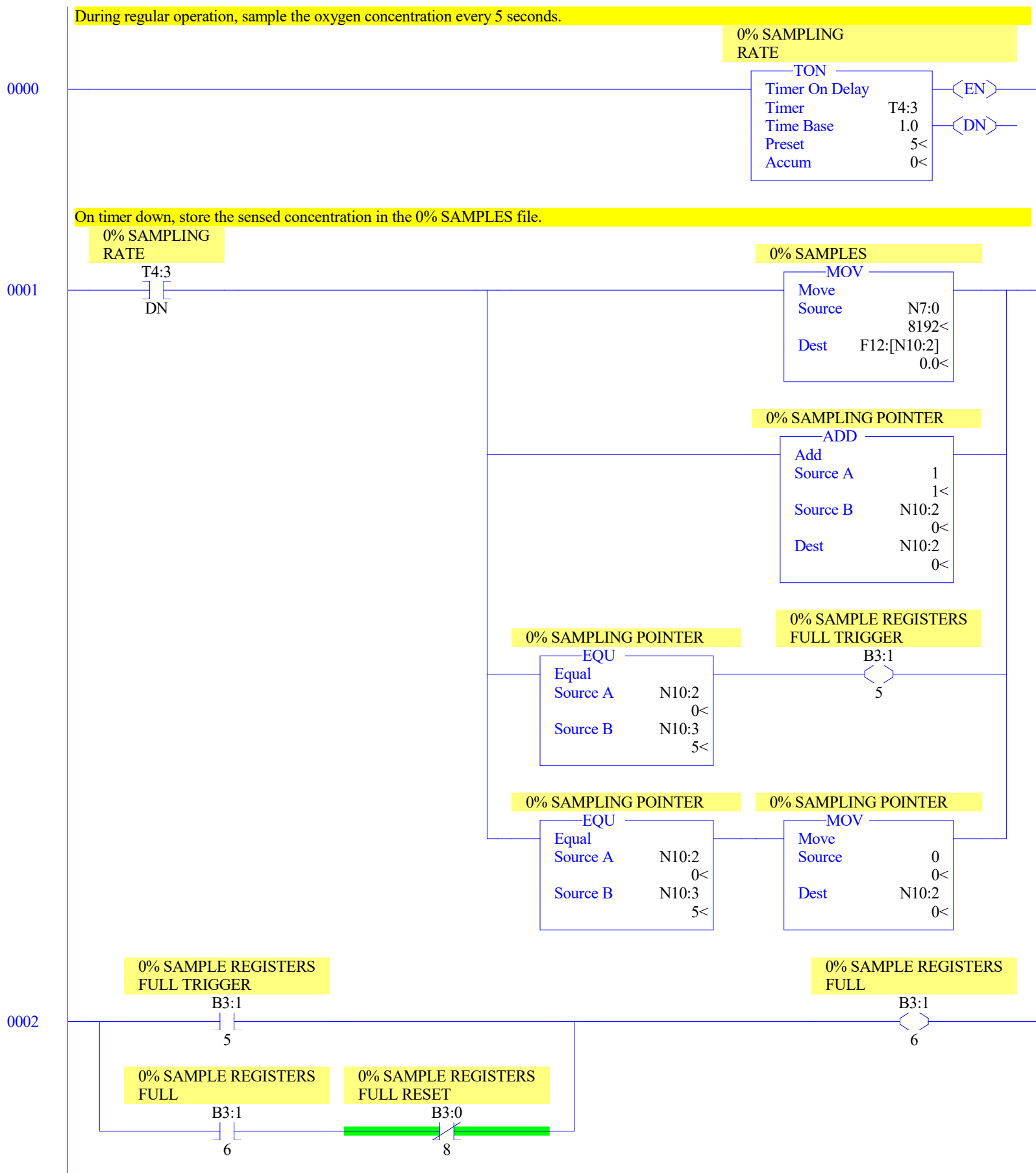












0003

For the first x records, calculate the average using a running sum

0% SAMPLING
RATE0% SAMPLE REGISTERS
FULL0% O2 FIRST PASS
VALUET4:3
DNB3:1
6

SCP

Scale w/Parameters

Input	N7:0
	8192<
Input Min.	N7:2
	0<
Input Max.	N7:3
	16383<
Scaled Min.	0.0
	0.0<
Scaled Max.	40.0
	40.0<
Output	F11:3
	0.0<

0% O2 SUM

ADD

Add	
Source A	F11:3
	0.0<
Source B	F11:4
	0.0<
Dest	F11:4
	0.0<

0% O2 AVG

DIV

Divide	
Source A	F11:4
	0.0<
Source B	N10:2
	0<
Dest	F11:5
	0.0<

0004

After the first x records, calculate the average using the data in the history registers

0% SAMPLING
RATE0% SAMPLE REGISTERS
FULLT4:3
DNB3:1
6

0% O2 SUM

MOV

Move	F12:0
Source	0.0<
Dest	F11:4
	0.0<

0% O2 SUM

ADD

Add	
Source A	F12:1
	0.0<
Source B	F11:4
	0.0<
Dest	F11:4
	0.0<

0% O2 SUM

ADD

Add	
Source A	F12:2
	0.0<
Source B	F11:4
	0.0<
Dest	F11:4
	0.0<

0% O2 SUM

ADD

Add	
Source A	F12:3
	0.0<
Source B	F11:4
	0.0<
Dest	F11:4
	0.0<

0% O2 SUM

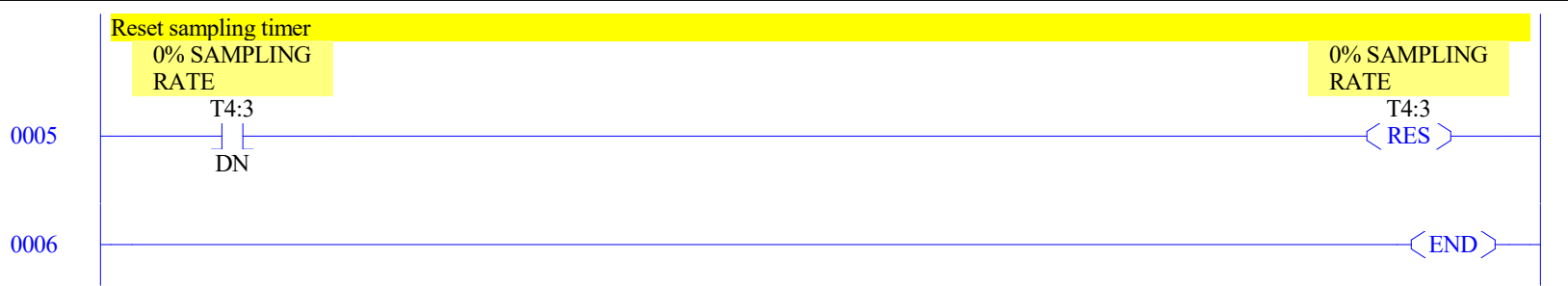
ADD

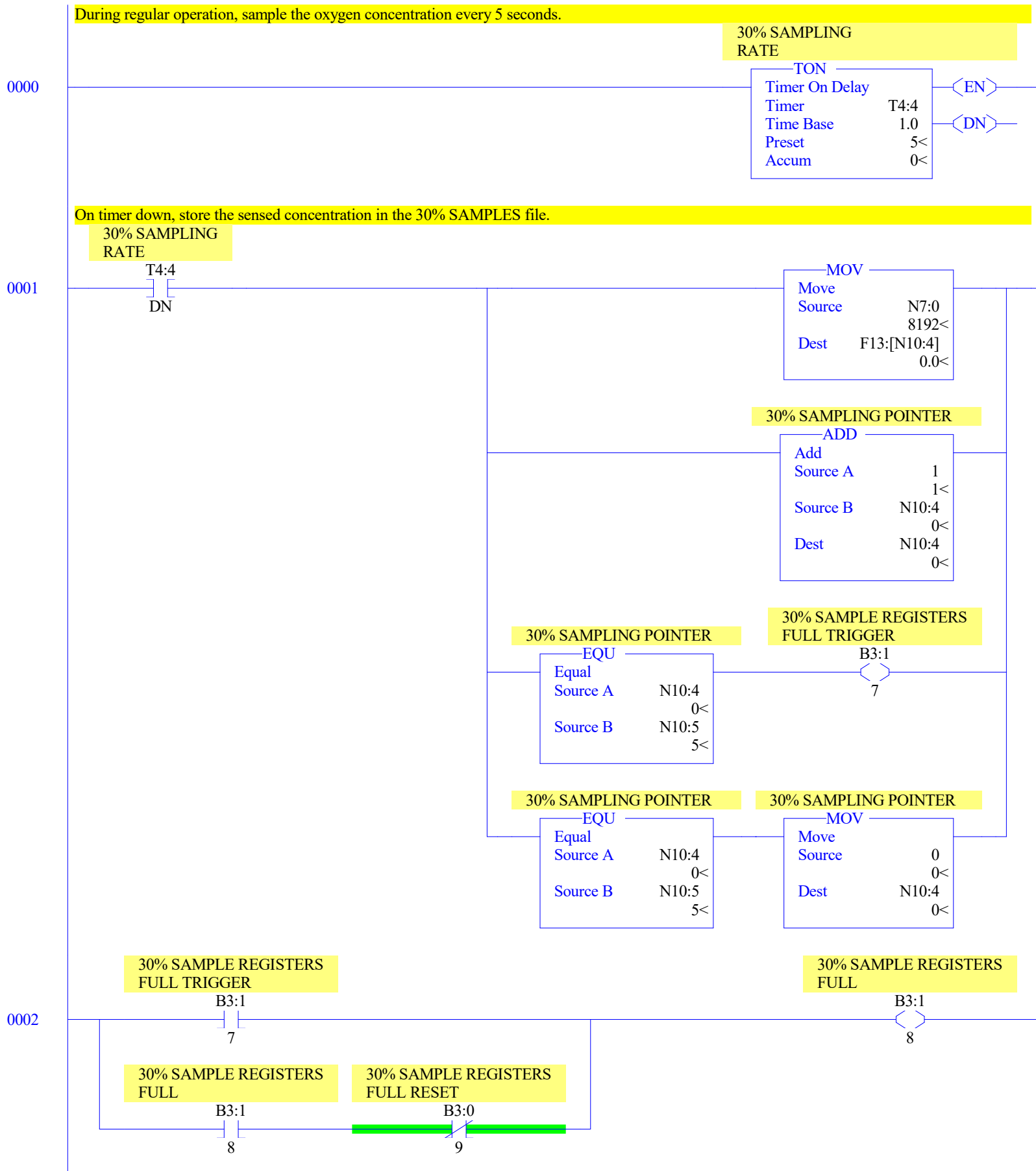
Add	
Source A	F12:4
	0.0<
Source B	F11:4
	0.0<
Dest	F11:4
	0.0<

0% O2 AVG

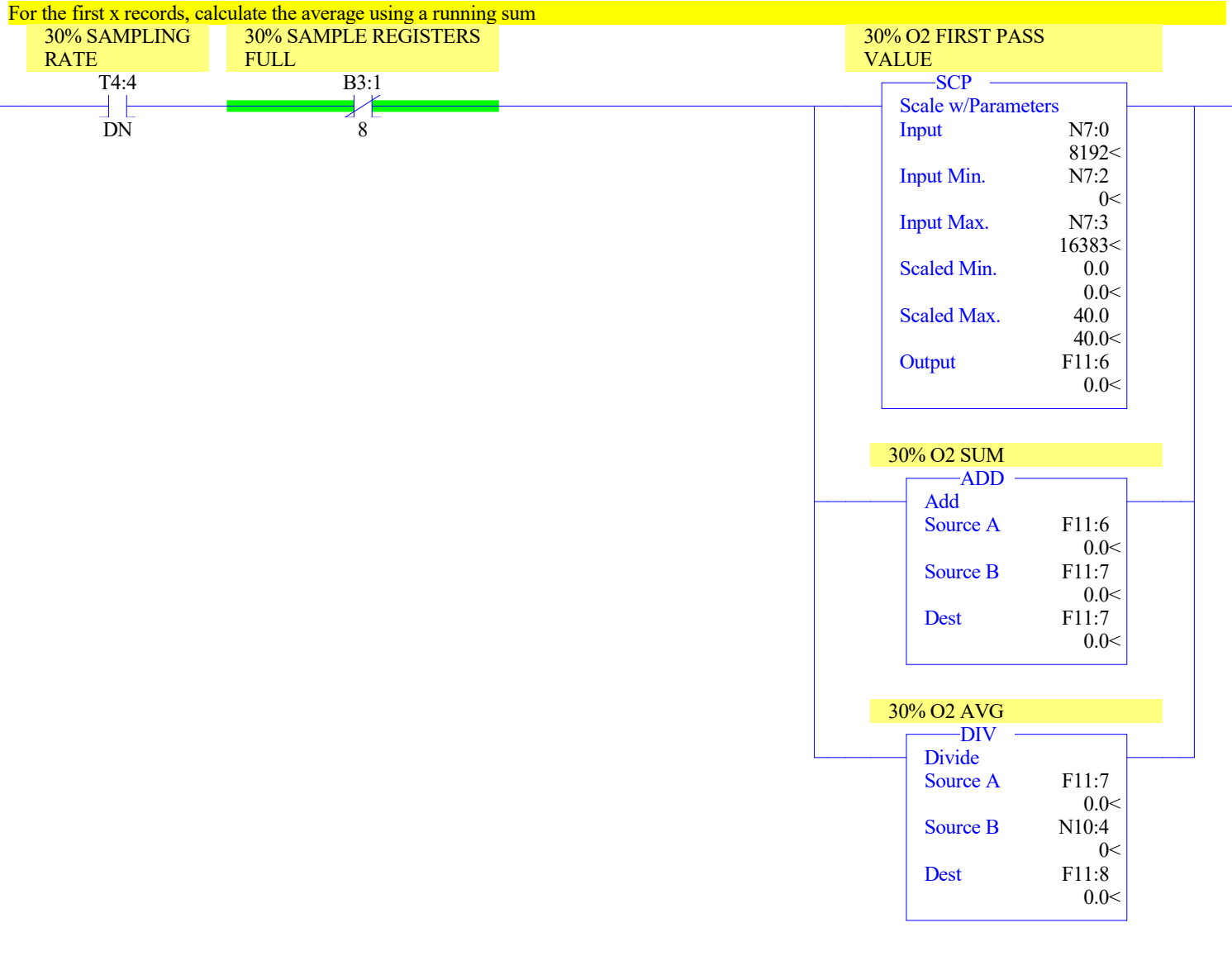
DIV

Divide	
Source A	F11:4
	0.0<
Source B	N10:3
	5<
Dest	F11:5
	0.0<





0003



0004

After the first x records, calculate the average using the data in the history registers

30% SAMPLING
RATE30% SAMPLE REGISTERS
FULLT4:4
DNB3:1
8

30% O2 SUM

MOV

Move	F13:0
Source	0.0<
Dest	F11:7
	0.0<

30% O2 SUM

ADD

Add	F13:1
Source A	0.0<
Source B	F11:7
	0.0<
Dest	F11:7
	0.0<

30% O2 SUM

ADD

Add	F13:2
Source A	0.0<
Source B	F11:7
	0.0<
Dest	F11:7
	0.0<

30% O2 SUM

ADD

Add	F13:3
Source A	0.0<
Source B	F11:7
	0.0<
Dest	F11:7
	0.0<

30% O2 SUM

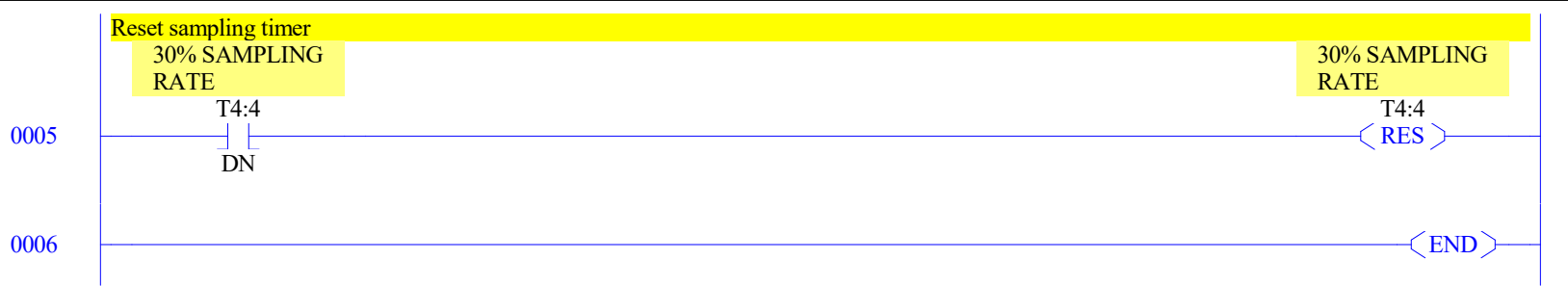
ADD

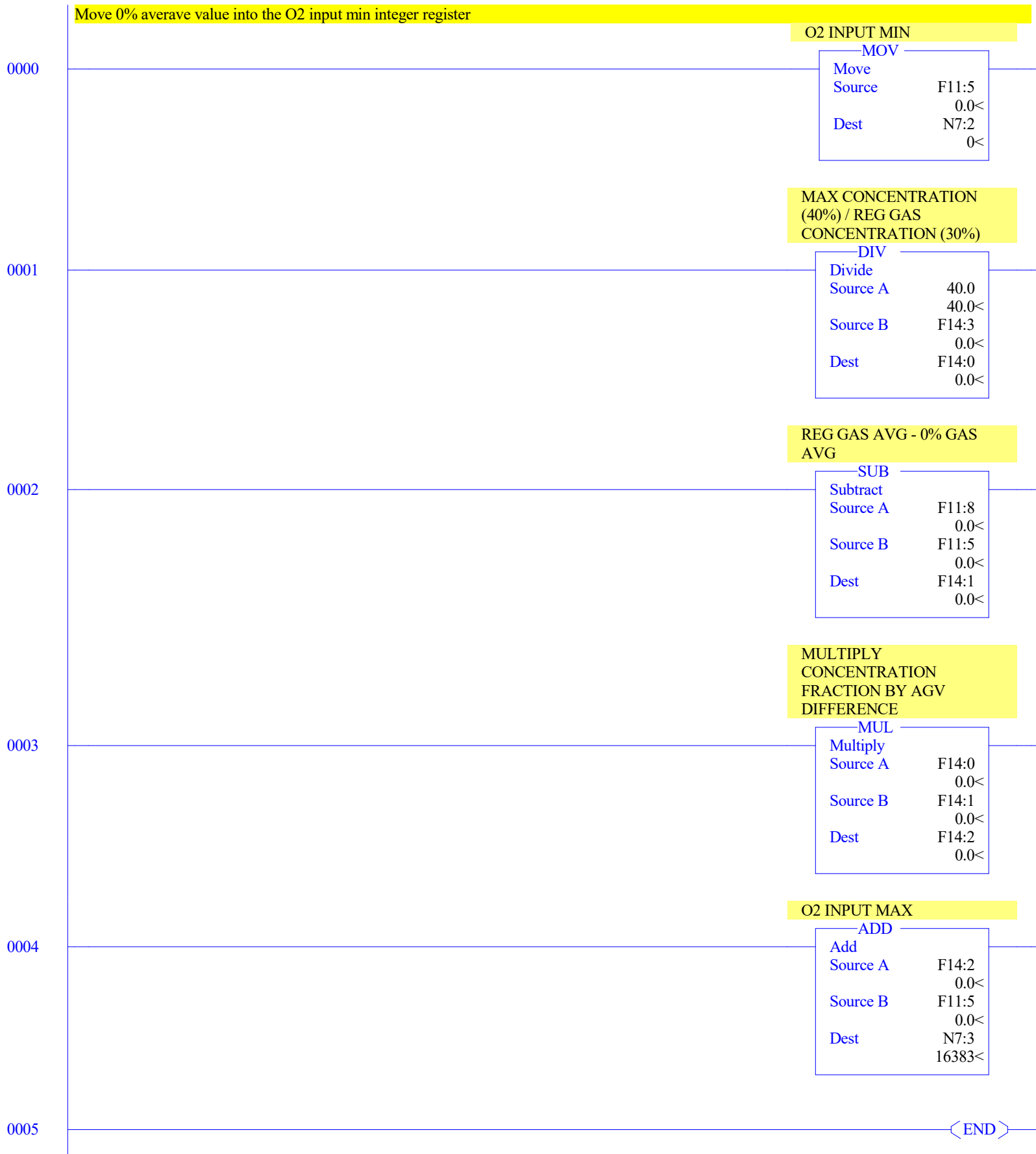
Add	F13:4
Source A	0.0<
Source B	F11:7
	0.0<
Dest	F11:7
	0.0<

30% O2 AVG

DIV

Divide	F11:7
Source A	0.0<
Source B	N10:5
	5<
Dest	F11:8
	0.0<





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

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

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

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

Chan 0

Processor Mode S:1/0- S:1/4 = Remote Program Mode
Node Address S:15 (low byte) = 0 Outgoing Msg Cmd Pending S:33/2 = 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

Debug

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

Errors

Fault Override At Power Up S:1/8 = 0 Fault Routine S:29 = 0
Startup Protection Fault S:1/9 = 0 Major Error S:6 = 0h
Major Error Halt S:1/13 = 0
Overflow Trap S:5/0 = 0 Error Description:
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

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

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		

Offset	EN	TT	DN	BASE	PRE	ACC	(Symbol)	Description
T4:0	0	0	0	1.0 sec	5	0	REGULAR	SAMPLING RATE
T4:1	0	0	0	1.0 sec	30	0	0%	SAMPLING TIMER
T4:2	0	0	0	1.0 sec	30	0	30%	SAMPLING TIMER
T4:3	0	0	0	1.0 sec	5	0	0%	SAMPLING RATE
T4:4	0	0	0	1.0 sec	5	0	30%	SAMPLING RATE

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C5:0	0	0	0	0	0	0	0	0	CALC AVG REG	SAMPLE COUNTER

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	8192	0	0	16383	0	0	8192	0	16383	

Data File F8 -- FLOAT

Offset	0	1	2	3	4
F8:0	0	0	0		

Data File F9 -- O2 SAMPLES

Offset	0	1	2	3	4
F9:0	0	0	0	0	0
F9:5	0	0	0	0	0

Data File N10 (dec) -- SAMP STTNG

Offset	0	1	2	3	4	5	6	7	8	9
N10:0	0	5	0	5	0	5				

Data File F11 -- AVGS

Offset	0	1	2	3	4
F11:0	0	0	0	0	0
F11:5	0	0	0	0	0

Offset	0	1	2	3	4
F12:0	0	0	0	0	0

Offset	0	1	2	3	4
F13:0	0	0	0	0	0

Offset	0	1	2	3	4
F14:0	0	0	0	0	

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
B3:0/0			CALIBRATE BUTTON		
B3:0/1			ONS		
B3:0/2			CALIBRATE TRIGGER		
B3:0/3			CALIBRATE INTERRUPT		
B3:0/4			CALIBRATE		
B3:0/5			REG SAMPLE REGISTERS FULL TRIGGER		
B3:0/6			REG SAMPLE REGISTERS FULL		
B3:0/7			REG SAMPLE REGISTERS FULL RESET		
B3:0/8			0% SAMPLE REGISTERS FULL RESET		
B3:0/9			30% SAMPLE REGISTERS FULL RESET		
B3:0/10			REGULAR RUN		
B3:1/0			0% VALVE OPEN BIT		
B3:1/1			30% VALVE OPEN BIT		
B3:1/2			CALIBRATE 0% TRIGGER		
B3:1/3			CALIBRATE 30% TRIGGER		
B3:1/5			0% SAMPLE REGISTERS FULL TRIGGER		
B3:1/6			0% SAMPLE REGISTERS FULL		
B3:1/7			30% SAMPLE REGISTERS FULL TRIGGER		
B3:1/8			30% SAMPLE REGISTERS FULL		
B3:2/0			CALIBRATE O2 SENSOR		
C5:0			CALC AVG REG SAMPLE COUNTER		
C5:0/DN					
C10:0					
F8:0			REG O2 FIRST PASS DATA		
F8:1			REG O2 FIRST PASS RUNNING SUM		
F8:2			REG O2 FIRST PASS AVG		
F8:[C5:0.ACC]					
F9:0			O2 SAMPLE AVG		
F9:1			O2 SAMPLES		
F9:2					
F9:4					
F9:[F9:0]			O2 SAMPLE HIST		
F9:[N7:4]			REG SAMPLING POINTER		
F9:[N10:0]			REG SAMPLING POINTER!		
F11:0			REG O2 FIRST PASS VALUE		
F11:1			REG O2 SUM		
F11:2			REG O2 AVG		
F11:3			0% O2 FIRST PASS VALUE		
F11:4			0% O2 SUM		
F11:5			0% O2 AVG		
F11:6			30% O2 FIRST PASS VALUE		
F11:7			30% O2 SUM		
F11:8			30% O2 AVG		
F12:0			0% SAMPLES		
F12:1					
F12:2					
F12:3					
F12:4					
F12:[N10:2]			0% SAMPLES		
F13:0					
F13:1					
F13:2					
F13:3					
F13:4					
F13:[N10:4]					
F14:0			MAX CONCENTRATION (40%) / REG GAS CONCENTRATION (30%)		
F14:1			REG GAS AVG - 0% GAS AVG		
F14:2			MULTIPLY CONCENTRATION FRACTION BY AGV DIFFERENCE		
F14:3			CONSTANT O2 SETPOINT = 30%		
N7:0			O2 SENSOR INPUT SIGNAL		
N7:1			MEASURED O2		
N7:2			O2 INPUT MIN		
N7:3			O2 INPUT MAX		
N7:4			CALIBRATION STATE 0 = IDLE 1 = 0% 2 = 30% 3 = CALIBRATING		
N7:5			CYCLE STATE 0 = NOT CALIBRATING 1 = CALIBRATING		
N7:6			SIMULATED INPUT SIGNAL		
N7:7			SIMULATED 0% SIGNAL		
N7:8			SIMULATED 30% SIGNAL		
N10:0			REG SAMPLING POINTER		
N10:0/0			test		
N10:1			REG SAMPLING MAX REGISTERS		
N10:2			0% SAMPLING POINTER		
N10:3			0% SAMPLING MAX REGISTERS		
N10:4			30% SAMPLING POINTER		
N10:5			30% SAMPLING MAX REGISTERS		
N14:3					
O:0/0			0% VALVE OPEN		
O:0/1			30% VALVE OPEN		
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		

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
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		
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		

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code
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		
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		
T1:0					
T4:0			REGULAR SAMPLING RATE		
T4:0/DN					
T4:1			0% SAMPLING TIMER		
T4:1/DN					
T4:2			30% SAMPLING TIMER		
T4:2/DN					
T4:3			0% SAMPLING RATE		
T4:3/DN					
T4:4			30% SAMPLING RATE		
T4:4/DN					
U:3			IO		
U:4			CYCLE		
U:5			CALIBRATE		
U:6			SAMPLE		
U:7			0% SAMPLE		
U:8			30% SAMPLE		
U:9			CALIBRATION CALCULATION		

Address	Instruction	Description
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Symbol Group Database

Group_Name	Description
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