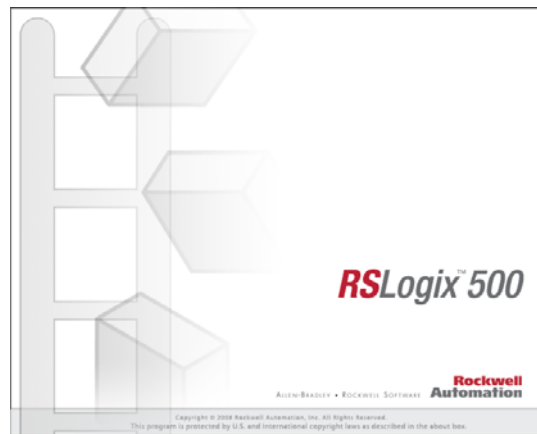


RSLogix 500 Project Report



Processor Information

Processor Type: 1747-L531E 5/03 CPU - 8K Mem. OS302 Series C FRN 3-8

Processor Name: UNTITLED

Total Memory Used: 55 Instruction Words Used - 42 Data Table Words Used

Total Memory Left: 4041 Instruction Words Left

Program Files: 6

Data Files: 9

Program ID: 79ac

I/O Configuration

0	1747-L531E	5/03 CPU - 8K Mem. OS302 Series C F
1	1746-IB16	16-Input (SINK) 24 VDC
2	1746-OW16	16-Output (RLY) 240 VAC
3	1746-IO4	2-Input 100/120 VAC, 2-Output (RLY)
4		
5		
6		

Channel Configuration

GENERAL

Channel 0 Write Protected: No
Channel 0 Edit Resource/Owner Timeout(x1 sec): 60
Channel 0 Passthru Link ID(dec): 1
Channel 0 Current Mode: System
Channel 0 Mode Change Enabled: No
Channel 0 Mode Change Attention Character: \1b
Channel 0 Mode Change System Character: S
Channel 0 Mode Change User Character: U

CHANNEL 1 (SYSTEM) - Driver: Shutdown

CHANNEL 0 (SYSTEM) - Driver: DF1 Full Duplex

Source ID: 9 (decimal)
Baud: 19200
Parity: NONE
Stop Bits: 1
Control Line : No Handshaking
Error Detection: CRC
Embedded Responses: Enabled
Duplicate Packet Detect: Yes
ACK Timeout(x20 ms): 50
NAK Retries: 3
ENQ Retries: 3

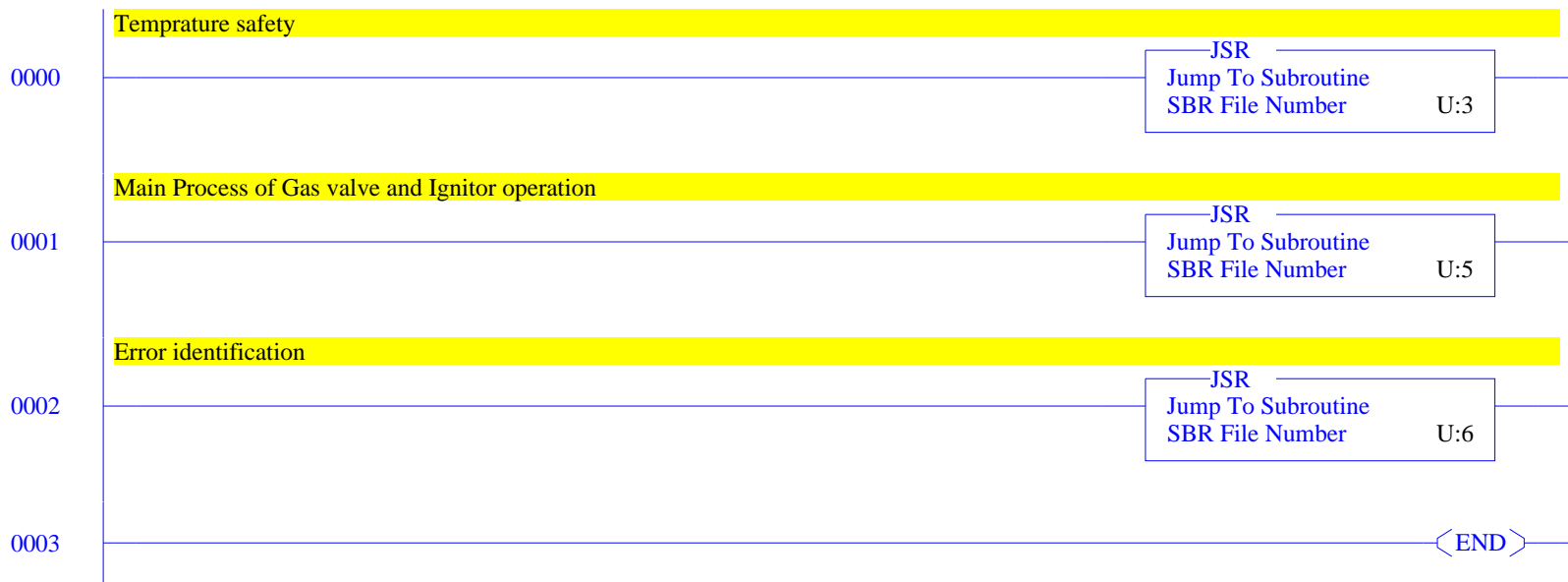
CHANNEL 0 (USER) - Driver: Shutdown

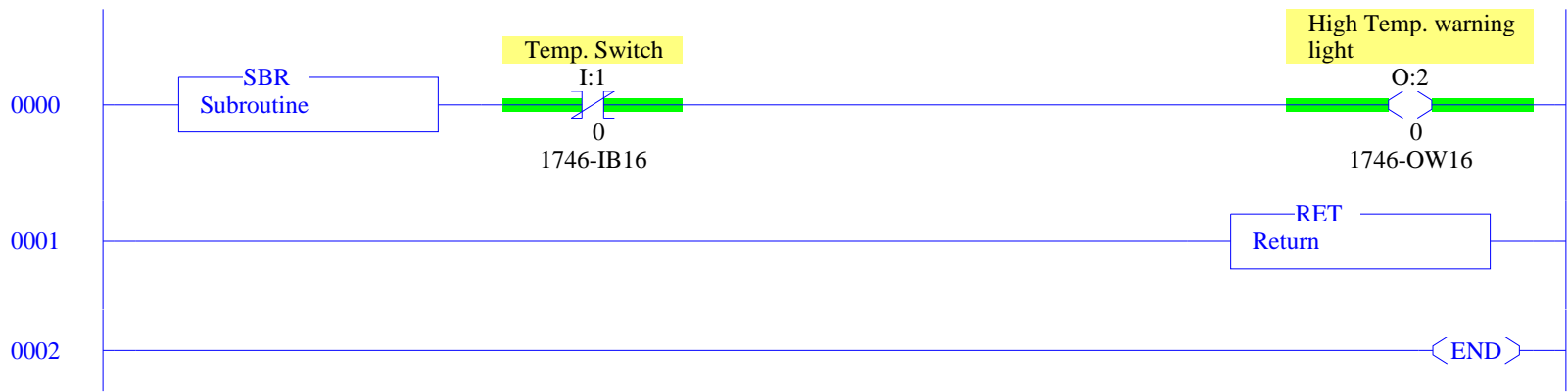
Program File List

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
	1	SYS	0	No	0
MAIN	2	LADDER	4	No	30
SAFETY	3	LADDER	3	No	23
GAS + IGIN	5	LADDER	4	No	94
ERROR	6	LADDER	6	No	105

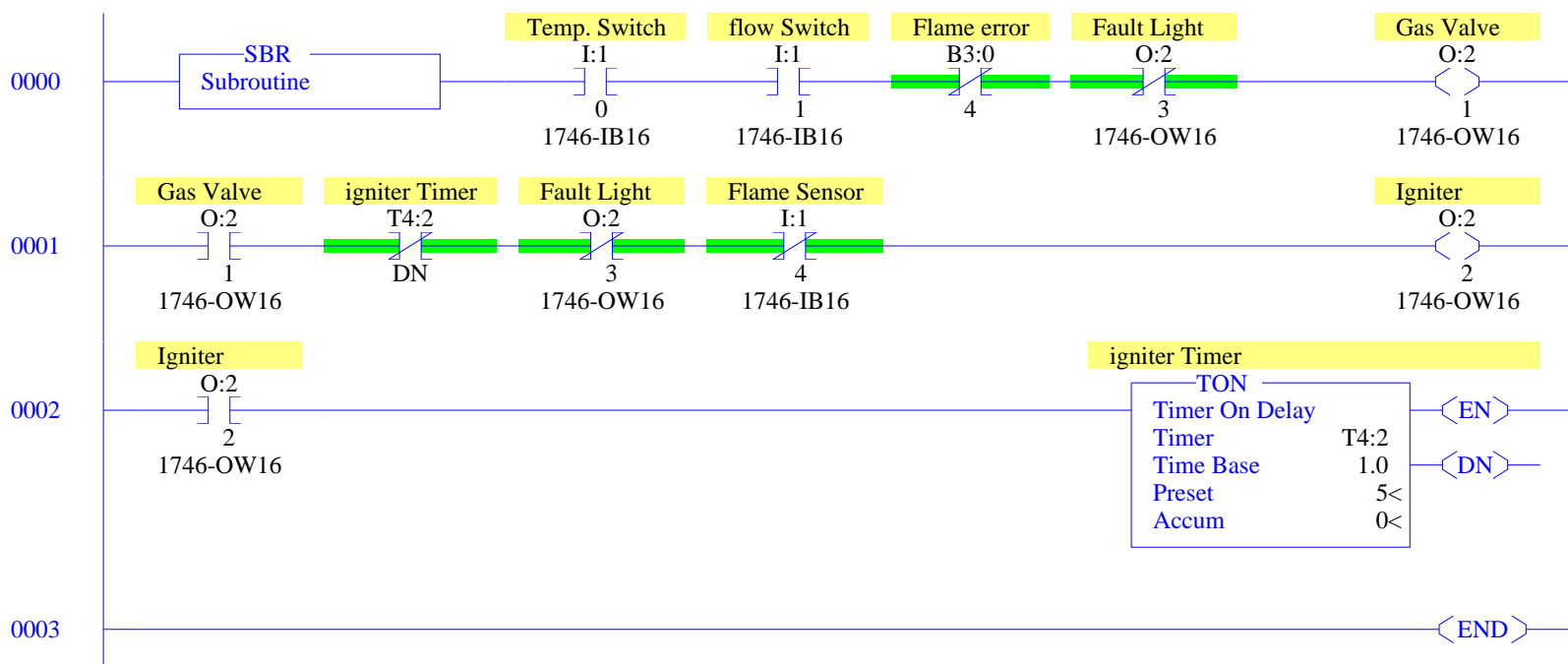
Data File List

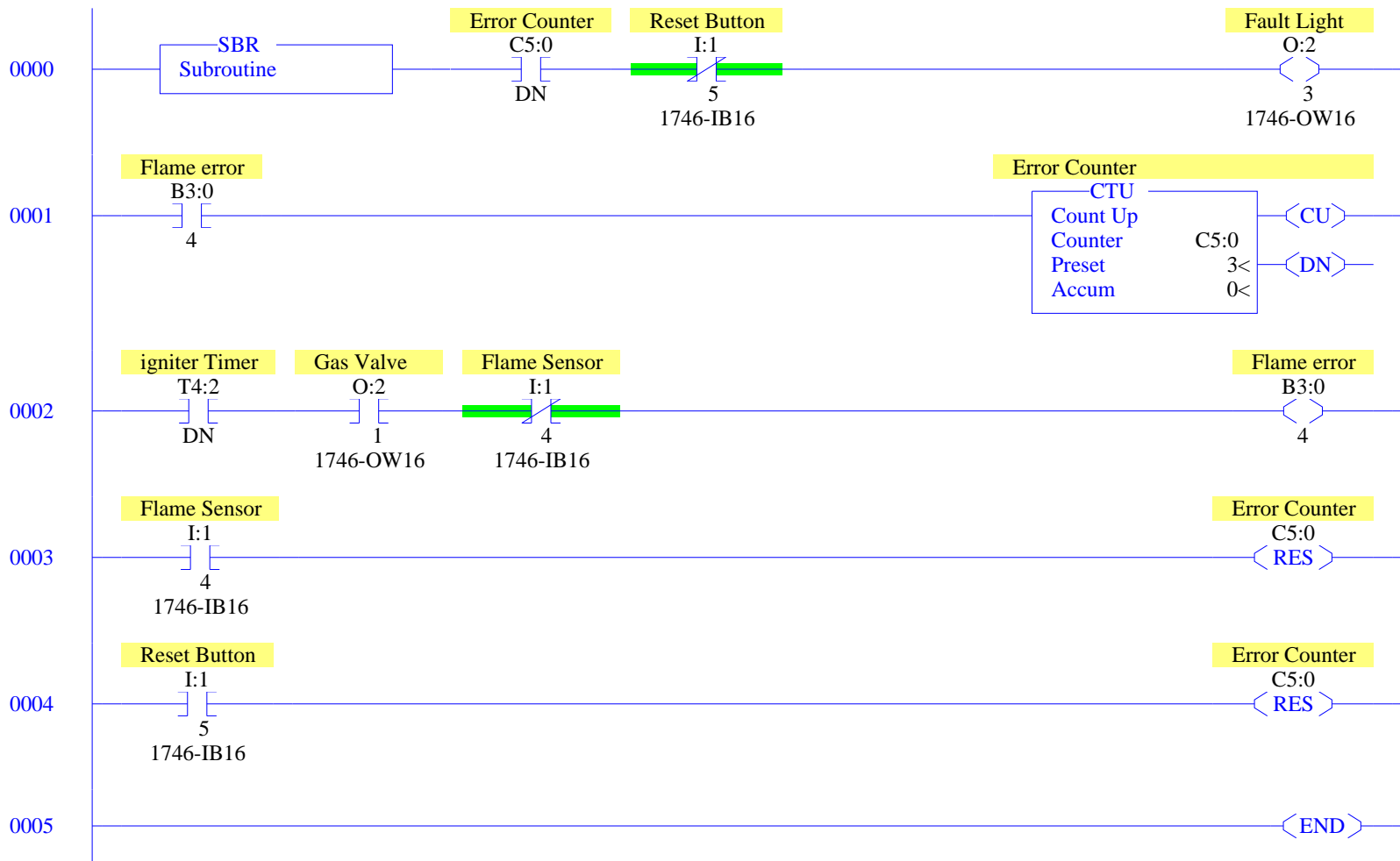
Name	Number	Type	Scope	Debug	Words	Elements	Last
OUTPUT	0	O	Global	No	6	2	O:1
INPUT	1	I	Global	No	6	2	I:1
STATUS	2	S	Global	No	0	83	S:82
BINARY	3	B	Global	No	2	2	B3:1
TIMER	4	T	Global	No	9	3	T4:2
COUNTER	5	C	Global	No	3	1	C5:0
CONTROL	6	R	Global	No	3	1	R6:0
INTEGER	7	N	Global	No	11	11	N7:10
FLOAT	8	F	Global	No	2	1	F8:0





LAD 5 - GAS + IGIN - Routine for gas value and ignitier --- Total Rungs in File = 4





Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
O:2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1746-OW16 - 16-Output (RLY) 240 VAC
O:3.0															0	0	1746-IO4 - 2-Input 100/120 VAC, 2-Output (RL

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
I:1.0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1746-IB16 - 16-Input (SINK) 24 VDC
I:3.0															0	0	1746-IO4 - 2-Input 100/120 VAC, 2-Output (RL

Main

First Pass S:1/15 = No DD / MM / YYYY
Index Register S:24 = 0 Date S:39-37 = 4 / 4 / 1913
Free Running Clock S:4 = 1000-0010-1000-0011
Index Across Data Files S:2/3 = No HH : MM : SS
CIF Addressing Mode S:2/8 = 0 Time S:40-42 = 17 : 5 : 32
Online Edits S:33/11 - S:33/12 = No online edits exist

Proc

OS Catalog Number S:57 = 302 User Program Type S:63 = 1
OS Series S:58 = C User Program Functionality Index S:64 = 95
OS FRS S:59 = 6 User RAM Size S:66 = 8
Processor Catalog Number S:60 = 531 OS Memory Size S:66 = 480
Processor Series S:61 = E
Processor FRN S:62 = 8

Scan Times

Maximum (x10 ms) S:22 = 1
Average (x10 ms) S:23 = 0
Current (x10 ms) S:3 (low byte) = 0
Watchdog (x10 ms) S:3 (high byte) = 10
Last 1ms Scan Time S:35 = 3
Scan Toggle Bit S:33/9 = 1
Time Base Selection S:33/13 = 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

IO

I/O Interrupt Executing S:32 = 0 Interrrupt Latency Control S:33/8 = 0
Event Interrupt 10 uS Time Stamp S:44 = 0

I/O Slot Enables: S:11 _S:12
0 10 20 30
11111111 11111111 11111111 11111111

I/O Slot Interrupt Enables: S:27 _S:28
0 10 20 30
11111111 11111111 11111111 11111111

I/O Slot Interrupt Pending: S:25 _S:26
0 10 20 30
00000000 00000000 00000000 00000000

Chan 0

Processor Mode S:1/0- S:1/4 = Remote Run
Channel Mode S:33/3 = 1 DTR Control Bit S:33/14 = 0
Comms Active S:33/4 = 0 DTR Force Bit S:33/15 = 0
Incoming Cmd Pending S:33/0 = 0 Outgoing Msg Cmd Pending S:33/2 = 0
Msg Reply Pending S:33/1 = 0 Comms Servicing Sel S:33/5 = 0
DH485 Pass-Thru Disabled Bit S:34/0 = 0 Msg Servicing Sel S:33/6 = 0
DF1 Pass-Thru Enable Bit S:34/5 = 0 Modem Lost S:5/14 = 0

Chan 1

Processor Mode S:1/0- S:1/4 = Remote Run
Node Address S:15 (low byte) = 1
Baud Rate S:15 (high byte) = 19200
Comms Active S:1/7 = 0
Incoming Cmd Pending S:2/5 = 0
Msg Reply Pending S:2/6 = 0

Outgoing Msg Cmd Pending S:2/7 = 0
Comms Servicing Sel S:2/15 = 1
Msg Servicing Sel S:33/7 = 0

Active Nodes: S:9 _S:10

0	10	20	30
00000000	00000000	00000000	00000000

Debug

Suspend Code S:7 = 0
Suspend File S:8 = 0
Compiled For Single Step S:2/4 = Yes

Test Single Step Breakpoint
Rung # S:18 = 0
File # S:19 = 0

Fault/Powerdown
Fault/Powerdown (Rung #) S:20 = 0
(File #) S:21 = 0

Test Single Step
Rung # S:16 = 0
File # S:17 = 2

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
M0/M1 Referenced On Disabled Slot S:5/4 = 0
Battery Low S:5/11 = 0
Fault/Powerdown (Rung #) S:20 = 0
(File #) S:21 = 0

ASCII String Manipulation error S:5/15 = 0
Fault Routine S:29 = 0
Major Error S:6 = 0h

Error Description:

STI

Setpoint (x10ms) S:30 = 0
File Number S:31 = 0
10 uS Time Stamp S:43 = 0
Pending Bit S:2/0 = 0
Enable Bit S:2/1 = 1

Resolution Select Bit S:2/10 = 0
Executing Bit S:2/2 = 0
Overflow Bit S:5/10 = 0
Lost S:36/9 = 0
Interrupt Latency Control S:33/8 = 0

DII

Preset S:50 = 0
Accumulator S:52 = 0
Pending Bit S:2/11 = 0
Enable Bit S:2/12 = 1
Executing Bit S:2/13 = 0
Reconfiguration Bit S:33/10 = 0
Overflow Bit S:5/12 = 0
Lost S:36/8 = 0
10 uS Time Stamp S:45 = 0

File Number S:46 = 0
Slot Number S:47 = 0
Bit Mask S:48 = 0h
Compare Value S:49 = 0h
Return Mask S:51 = 0h
Last Scan Time (x1 ms) S:55 = 0
Max Observed Scan Time (x1 ms) S:56 = 0
Interrupt Latency Control S:33/8 = 0

Protection

Deny Future Access S:1/14 = No

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
Load Memory Module and RUN 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 = No
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	1	
B3:1	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	20	20	
T4:1	0	0	0	.01 sec	0	0	
T4:2	0	0	0	1.0 sec	5	0	igniter Timer

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol)	Description
C5:0	0	0	0	0	0	0	3	0	Error	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	0	0	0	0	0	0	0	0	0	0
N7:10	0									

Offset	0	1	2	3	4
F8:0	0				

Address (Symbol) = Value [Description]

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
B3:0							
B3:0/0							
B3:0/3							
B3:0/4			Flame error				
B3:3/0							
C5:0			Error Counter				
I:1/0			Temp. Switch				
I:1/1			flow Switch				
I:1/4			Flame Sensor				
I:1/5			Reset Button				
O:2/0			High Temp. warning light				
O:2/1			Gas Valve				
O:2/2			Igniter				
O:2/3			Fault Light				
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				
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				

Address/Symbol Database

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
S:33/2			Outgoing Message Command Pending				
S:33/3			Selection Status User/DFI				
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				
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							
T4:0.ACC							
T4:0/DN	T4	Global					
T4:2			igniter Timer				

Address	Instruction	Description
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Group_Name	Description
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