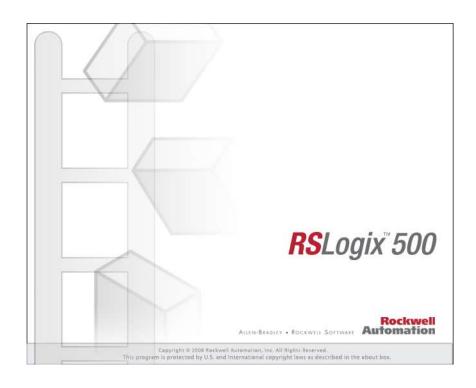
# RSLogix Micro Project Report



## Processor Information

Processor Type: Bul.1763 MicroLogix 1100 Series B

Processor Name: UNTITLED

Total Memory Used: 1462 Instruction Words Used - 1866 Data Table Words Used

Total Memory Left: 5194 Instruction Words Left

Program Files: 10

Data Files: 16

Program ID: 8707

# I/O Configuration

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

### Channel Configuration

```
CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master
  CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Edit Resource/Owner Timeout: 60
  CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Passthru Link ID: 1
  CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Write Protected: No
  CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Comms Servicing Selection: Yes
  CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master Message Servicing Selection: Yes
  CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master 1st AWA Append Character: \d
  CHANNEL 0 (SYSTEM) - Driver: Modbus RTU Master 2nd AWA Append Character: \a
  Baud: 19200
  Parity: NONE
  Control Line : No Handshaking
  InterCharacter Timeout(x1 ms): 0
  Pre Transmit Delay(x1 ms): 0
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: 00:0F:73:01:72:04
  IP Address: 192.168.1.112
  Subnet Mask: 255.255.25.0
  Gateway Address: 192.168.1.1
  Msg Connection Timeout (x 1mS):
  Msg Reply Timeout (x mS): 3000
  Inactivity Timeout (x Min): 30
  Bootp Enable: No
  Dhcp Enable Yes
  SNMP Enable: No
  HTTP Enable: Yes
  Auto Negotiate Enable: Yes
  Port Speed Enable: 10/100 Mbps Full Duplex/Half Duplex
  Contact:
```

Location:

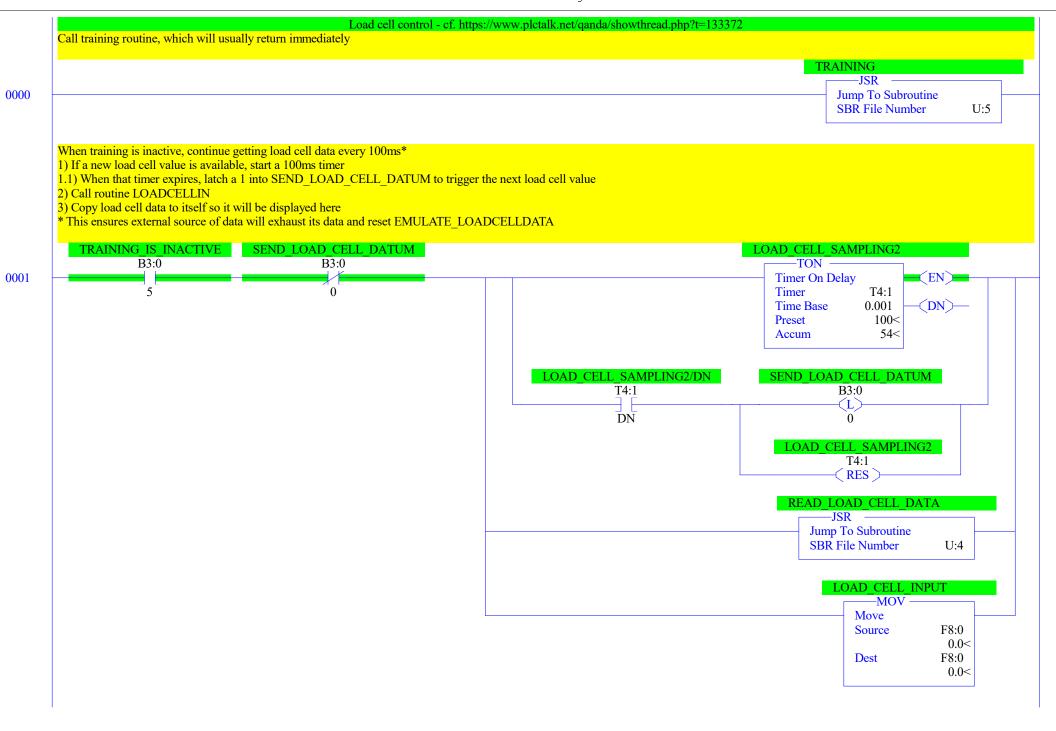
# Program File List

Name	Number	Type	Rungs	Debug	Bytes
[SYSTEM]	0	SYS	0	No	0
[STSTEM]	1	SYS	0	No	0
MAIN	2	LADDER	3	No	96
LOADCELLIN	4	LADDER	5	No	96
TRAINING	5	LADDER	8	No	207
ADD IRANK6	251	LADDER	7	No	486
$CALar{C}$ PEAKS	252	LADDER	6	No	191
RNK6NEWVAL	253	LADDER	6	No	243
RNK6BUBBLE	254	LADDER	6	No	316
RESETRANK6	255	LADDER	5	No	229

# Data File List

Name	Number	Type	Scope	Debug	Words	Elements	Last		
OUTPUT	0	0	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	В	Global	No	3	3	B3:2		
TIMER	4	T	Global	No	6	2	T4:1		
COUNTER	5	C	Global	No	6	2	C5:1		
CONTROL	6	R	Global	No	3	1	R6:0		
INTEGER	7	N	Global	No	10	10	N7:9		
FLOAT	8	F	Global	No	2	1	F8:0		
RNK6FLOATS	249	F	Global	No	512	256	F249:255		
RNK6 INTS	250	N	Global	No	256	256	N250:255		
RNK6COUNTS	251	N	Global	No	7	7	N251:6		
RNK6BINS	252	N	Global	No	7	7	N252:6		
COUNT I	253	N	Global	No	256	256	N253:255		
RANK6_I	254	N	Global	No	256	256	N254:255		
SUM_I	255	F	Global	No	512	256	F255:255		

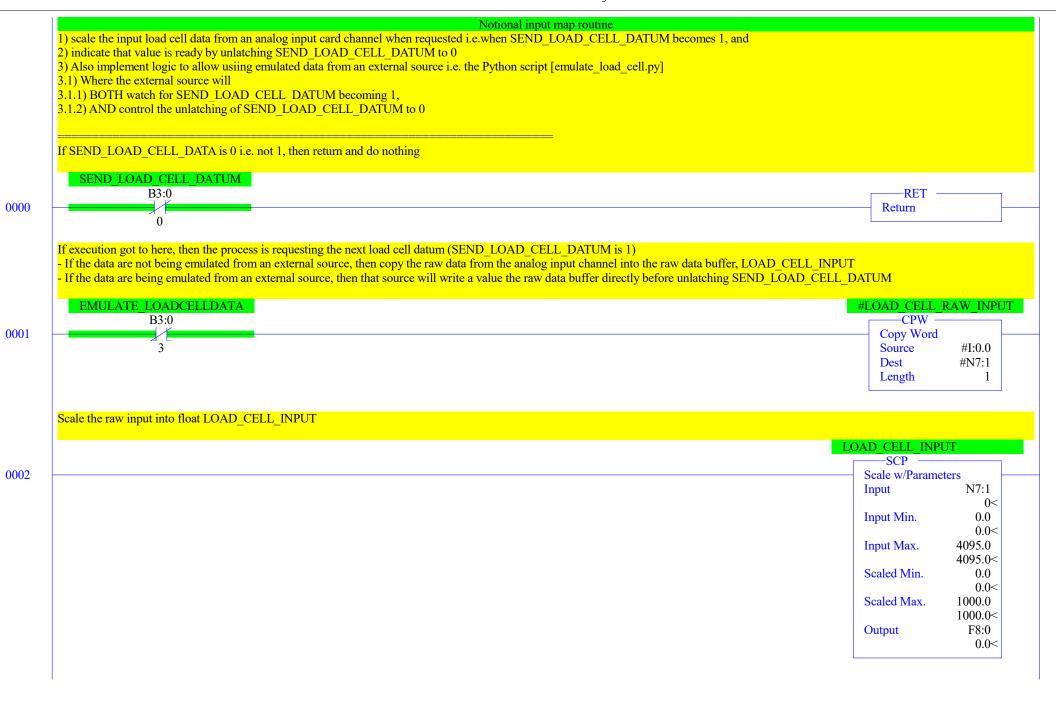
LAD 2 - MAIN --- Total Rungs in File = 3



0002

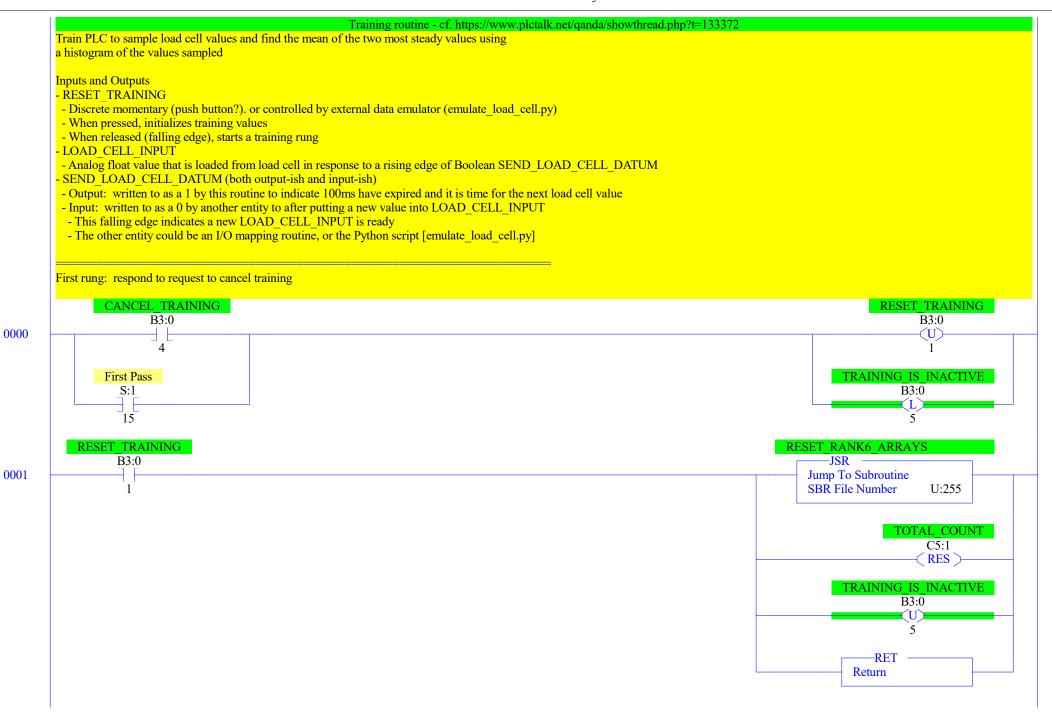
END >

LAD 4 - LOADCELLIN --- Total Rungs in File = 5

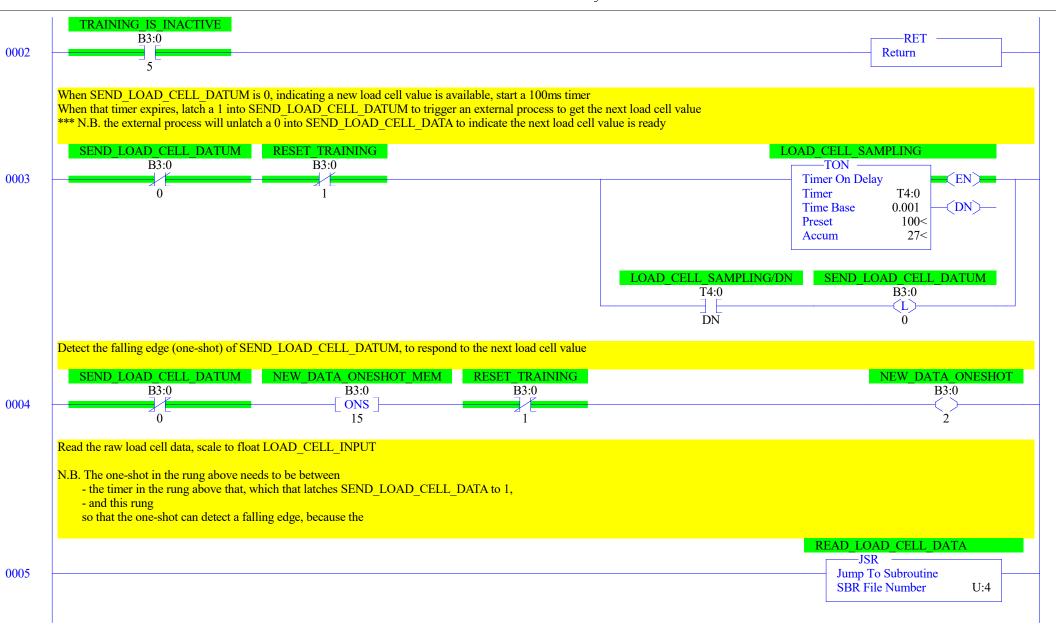


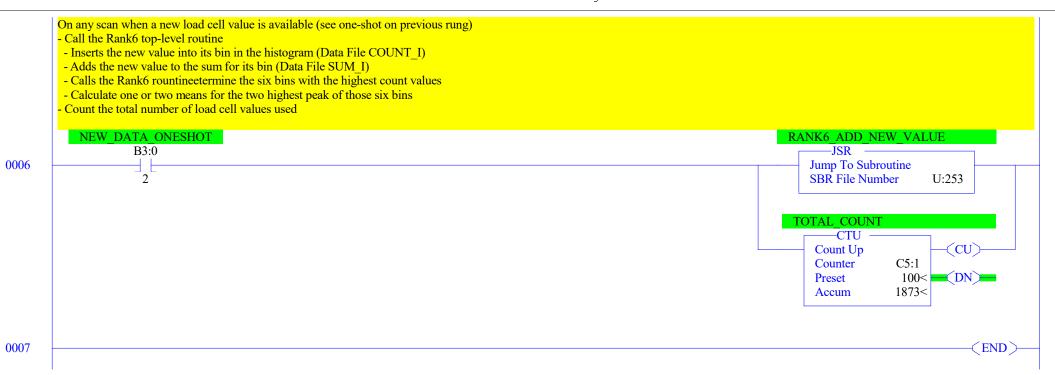
LAD 4 - LOADCELLIN --- Total Rungs in File = 5

	If the data are not being emulated from an external source, then unlatch SEND_LOAD_CELL_DATUM to 0 If the data are being emulated from an external source, then that external source is responsible for unlatching SEND_LOAD_CELL_DATA N.B. the falling edge of SEND_LOAD_CELL_DATA will indicate to the calling routine that the new value is ready	TA .
0003	EMULATE_LOADCELLDATA B3:0 3	SEND_LOAD_CELL_DATUM B3:0 U 0
0004		(END)

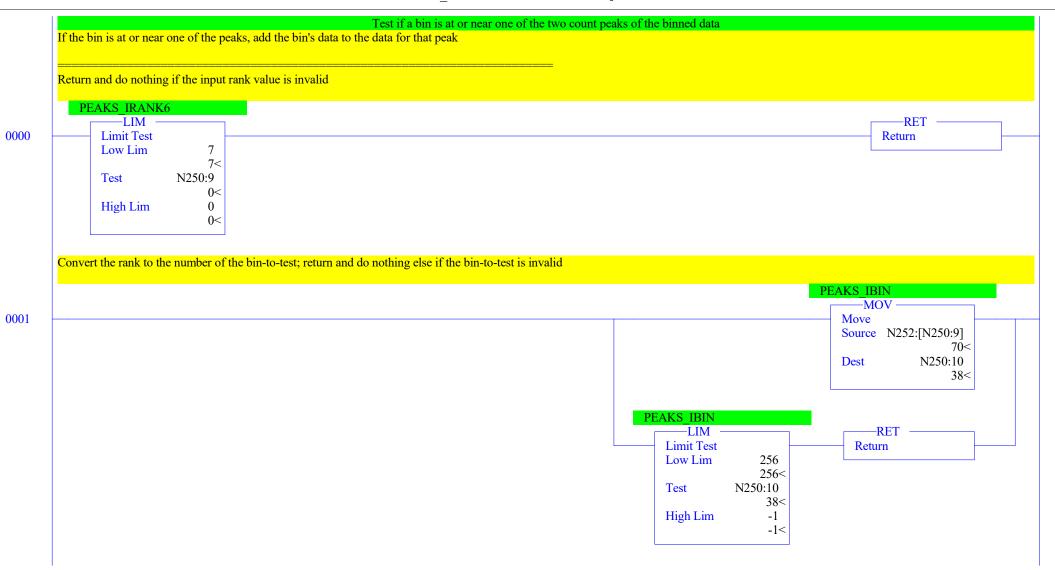


## LAD 5 - TRAINING --- Total Rungs in File = 8





LAD 251 - ADD IRANK6 --- Total Rungs in File = 7

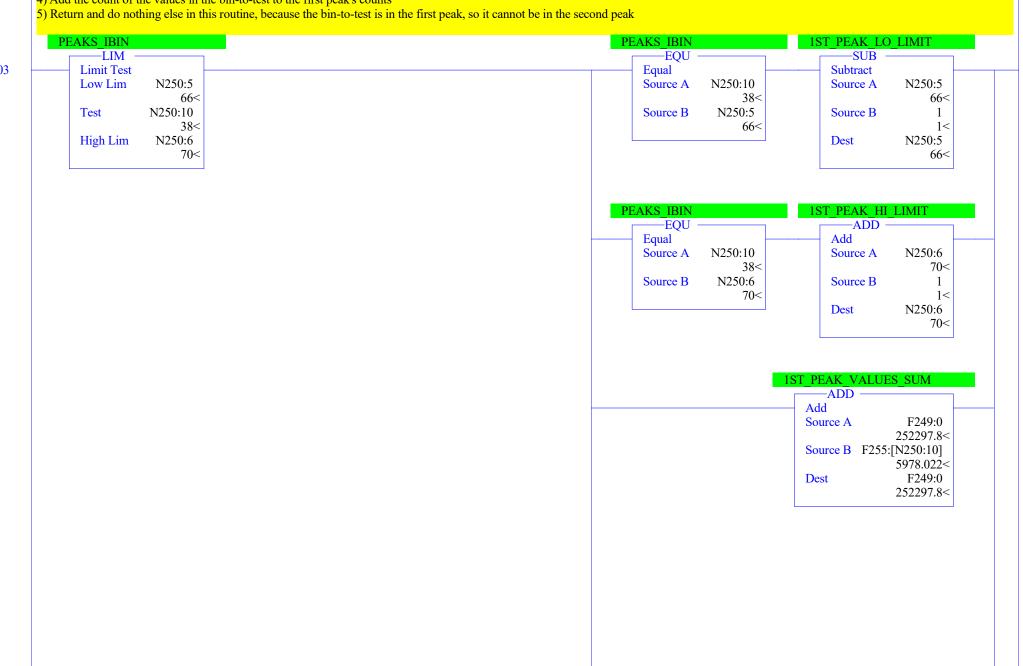


LAD 251 - ADD\_IRANK6 --- Total Rungs in File = 7

If the first peak has not yet been determined, then - Set the first peak's low and high limits equal to the bin-to-test, so the bin will initialize the first peak - Clear all of the first and second peaks' data (values' sums; counts; means) 1ST\_PEAK\_LO\_LIMIT #1ST\_PEAK\_LO\_LIMIT -LES --FLL 0002 Less Than (A<B) Fill File N250:5 Source N250:10 Source A 66< #N250:5 Dest Source B 0 Length 2 0< #1ST\_PEAK\_VALUES\_SUM -FLL Fill File 0.0 Source Dest #F249:0 Length 6

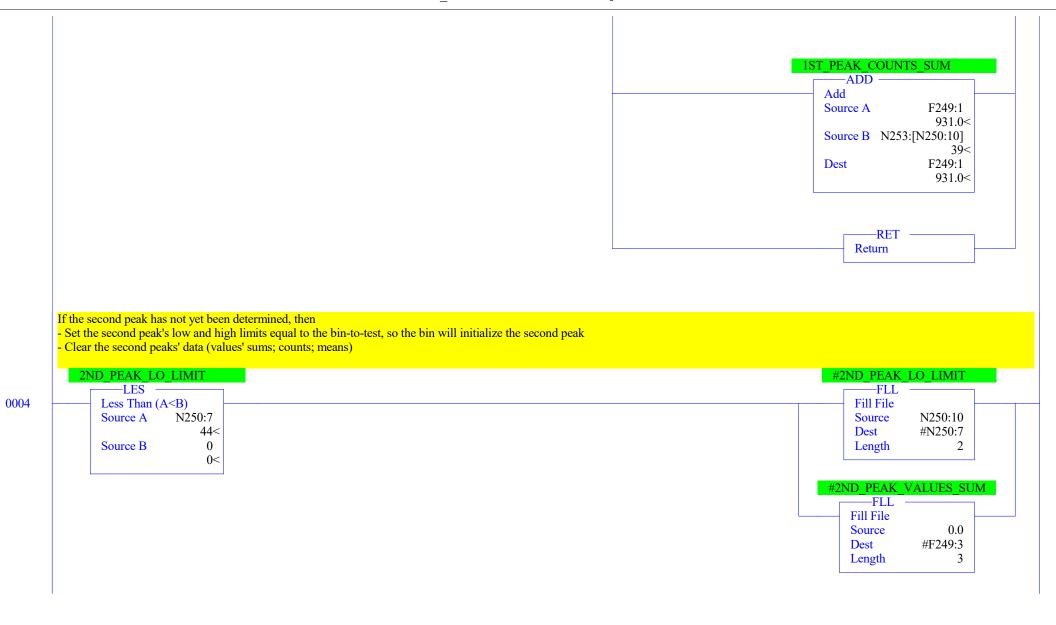
If the bin-to-test is in the first peak's [lo limit:hi limit] range, then add the bin's data to the first peak:

- 1) If the bin is equal to the low limit, then decrement the low limit by 1 bin to catch the next lower bin, if it is tested later
- 2) If the bin is equal to the high limit, then increment the high limit by 1 bin to catch the next higher bin, if it is tested later
- 3) Add the sum of the values in the bin-to-test to the first peak's values' sum
- 4) Add the count of the values in the bin-to-test to the first peak's counts



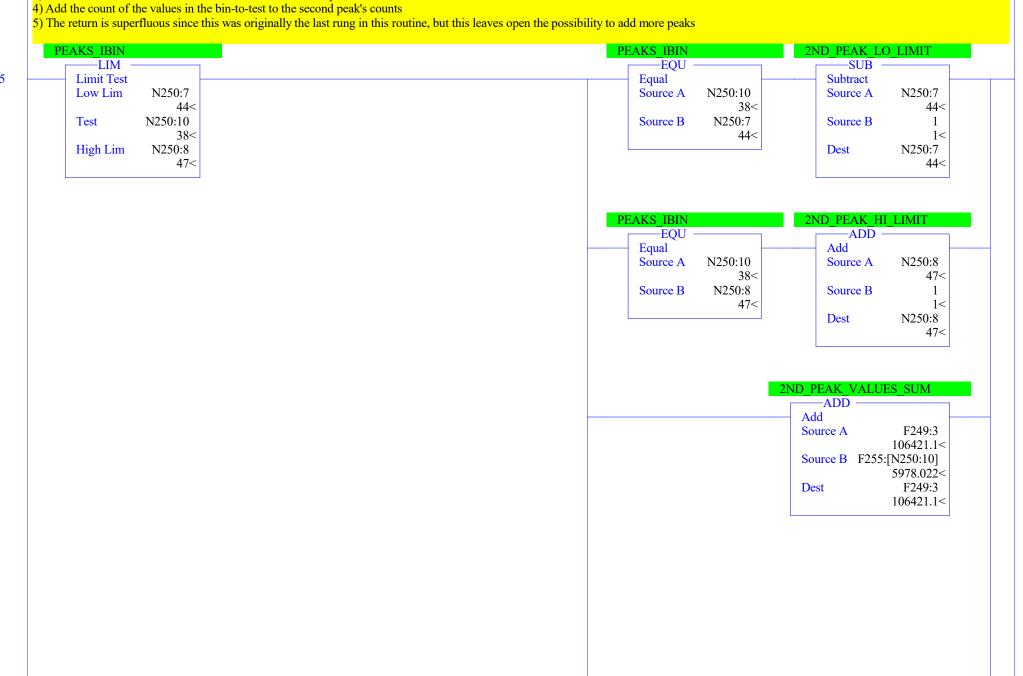
Page 3

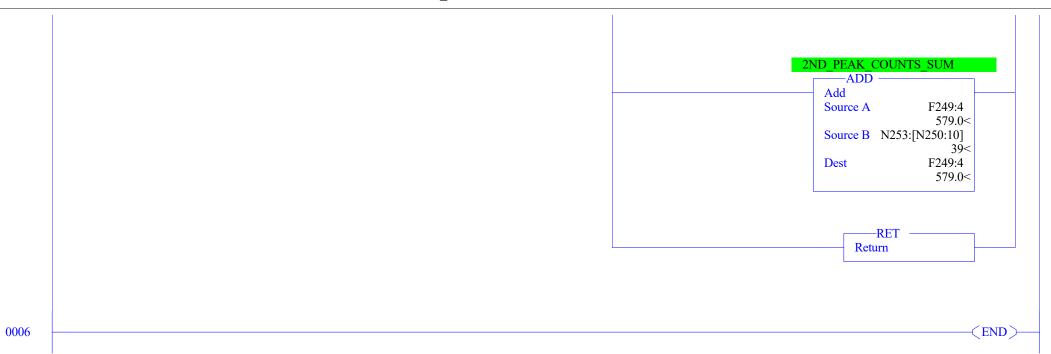
LAD 251 - ADD\_IRANK6 --- Total Rungs in File = 7



If the bin-to-test is in the second peak's [lo limit:hi limit] range, then add the bin's data to the second peak:

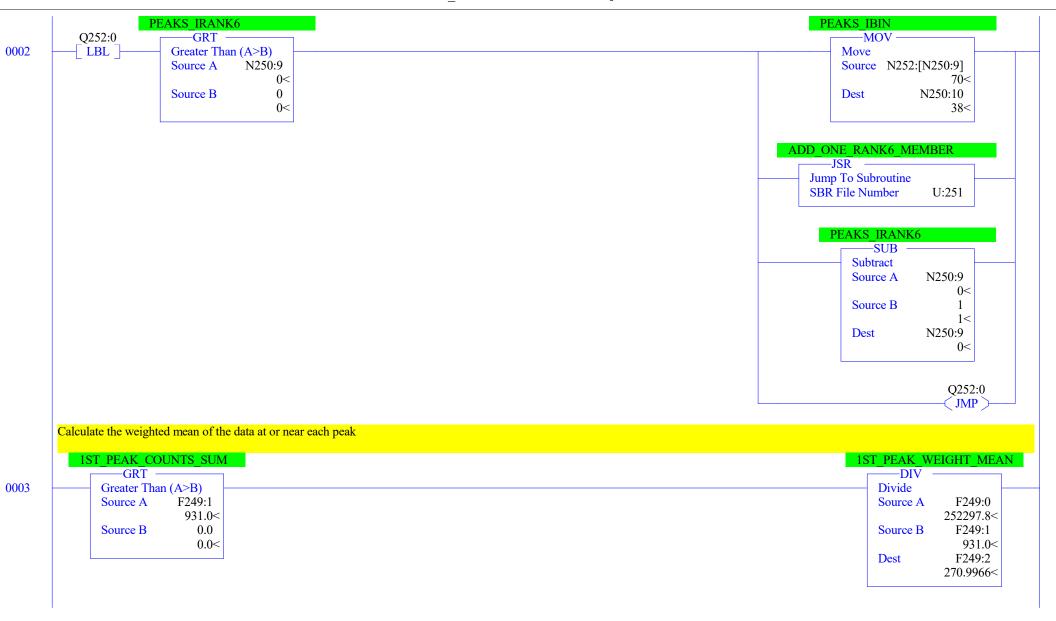
- 1) If the bin is equal to the low limit, then decrement the low limit by 1 bin to catch the next lower bin, if it is tested later
- 2) If the bin is equal to the high limit, then increment the high limit by 1 bin to catch the next higher bin, if it is tested later
- 3) Add the sum of the values in the bin-to-test to the second peak's values' sum





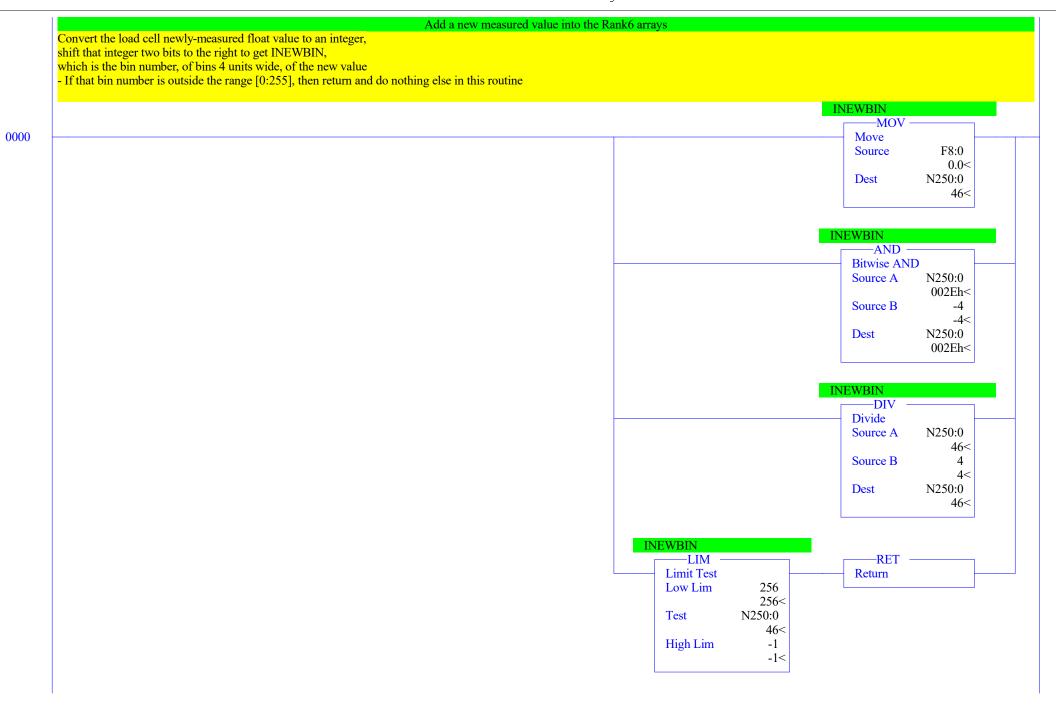
LAD 252 - CALC PEAKS --- Total Rungs in File = 6

Calculate two means at, or near the two highest-count peaks in the Ran6 bins Initialize both peaks' bin limits to -1 #1ST PEAK LO LIMIT -FLL Fill File 0000 Source -1 #N250:5 Dest Length Loop through the Rank6 count-sorted arrays from the highest-count bin in element 6 to the lowest-count bin in element 1 - Call the ADD\_ONE\_RANK6\_MEMBER to determine if each such bin is at, or near one of the two peaks of the histogram N.B. Element 0 is ignored, as it is the nominal location for all bins that are not in the top six PEAKS IRANK6 -MOV 0001 Move Source 6 6< Dest N250:9 0< LAD 252 - CALC PEAKS --- Total Rungs in File = 6



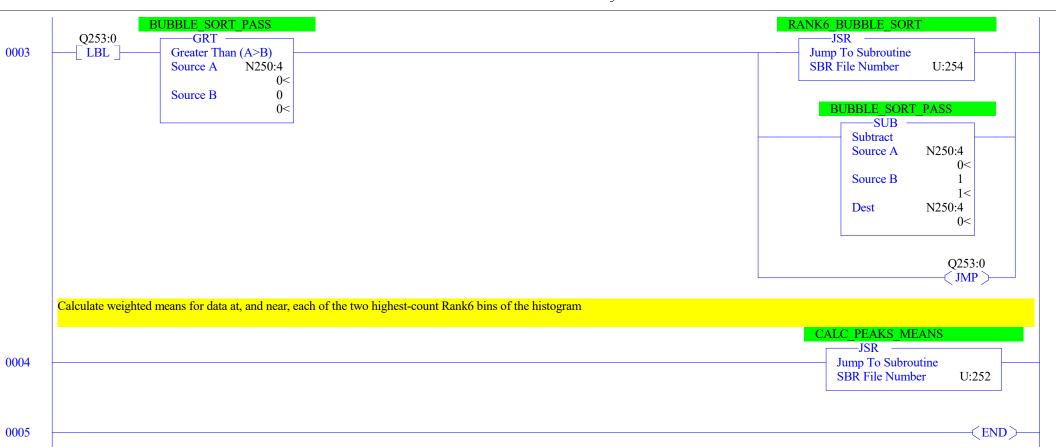
LAD 252 - CALC\_PEAKS --- Total Rungs in File = 6



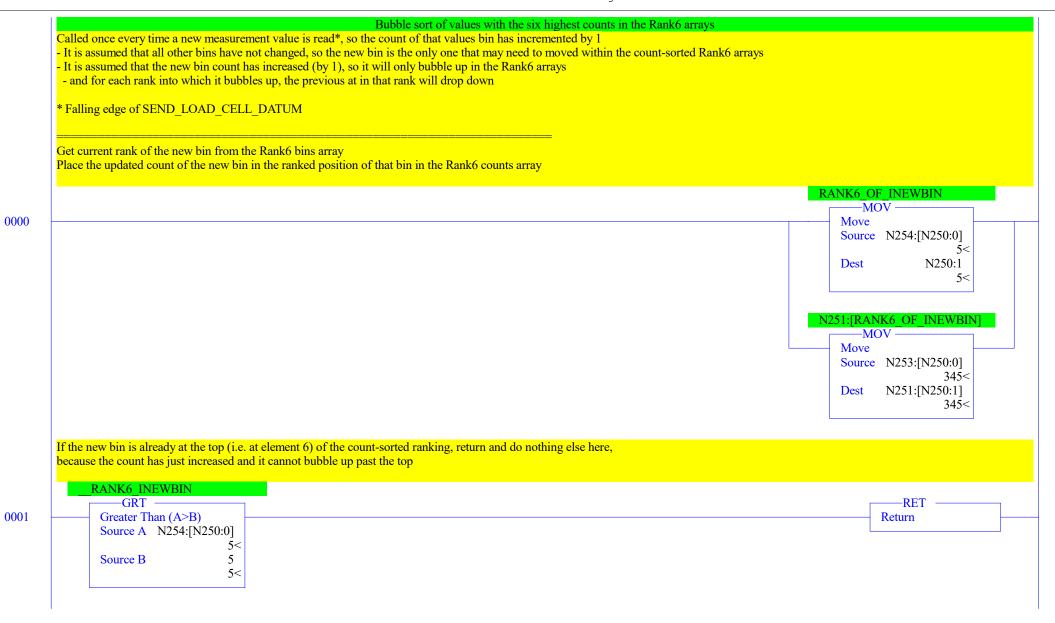


Increment the count array element at that bin number by 1; Increment the sum array element at that bin number by the new float value COUNT INEWBIN -ADD 0001 Add Source A N253:[N250:0] 345< Source B 1 1< N253:[N250:0] Dest SUM IBINS –ADD Add Source A F255:[N250:0] 63675.77< Source B F8:0 0.0< F255:[N250:0] Dest 63675.77< Run six passes of the Rank6 bubble sort routine to place - the count of that bin in the correct element of the sorted-by-count six-element array RNK6COUNTS[1:6], and - the bin number in the count-sorted element of RNK6BINS[1:6] BUBBLE SORT PASS -MOV 0002 Move Source 6< N250:4 Dest 0<

# LAD 253 - RNK6NEWVAL --- Total Rungs in File = 6

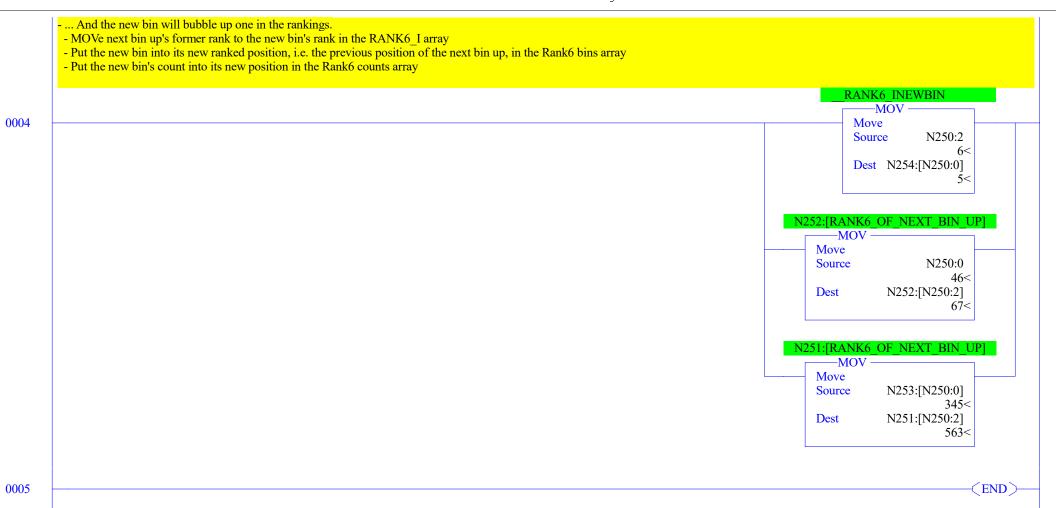


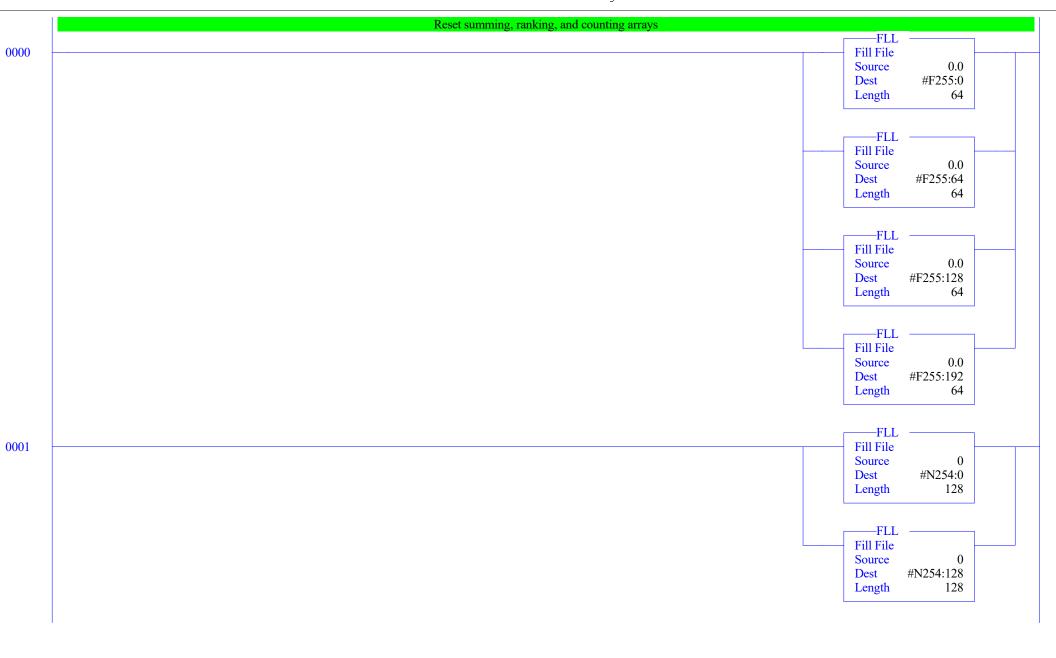
LAD 254 - RNK6BUBBLE --- Total Rungs in File = 6

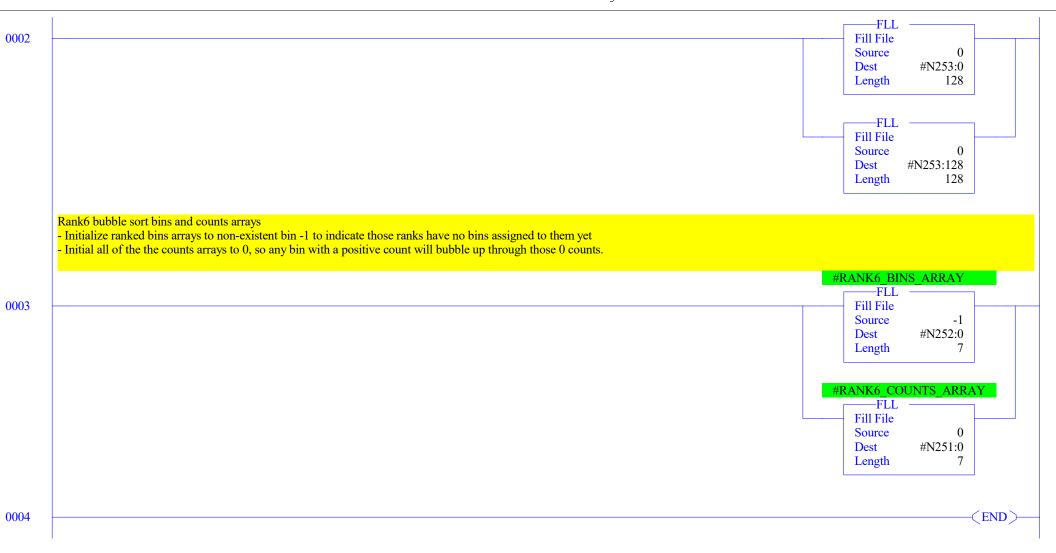


Calculate the next rank up from, i.e. one more than, the previous rank of the new bin Return and do nothing if the count of the new bin is less than or equal to the count of that next bin up - i.e. the new bin does not need to bubble up RANK6\_OF\_NEXT\_BIN\_UP -ADD Add 0002 N250:1 Source A 5< Source B 1 1< N250:2 Dest 6< N251:[RANK6\_OF\_INEWBIN] –LEQ -RET Less Than or Eql (A<=B) Return Source A N251:[N250:1] 345< Source B N251:[N250:2] 563<

To here, the bins and counts of [the new bin] and [the next bin up] will swap positions in the Rank6 arrays: - The next bin up will drop down one in the rankings, ... - Get the index of the next bin up from the Rank6 bins array - If that index is non-negative, then then move the new bin's current rank to the next bin up's rank in the RANK6\_I array - Put the next bin up into its new ranked position in the Rank6 bins array - Put the next bin up's count into its new position in the Rank6 counts array INEXT BIN UP -MOV 0003 Move Source N252:[N250:2] Dest N250:3 68< INEXT\_BIN\_UP N254:[INEXT\_BIN\_UP] -GRT -MOV Greater Than (A>B) Move Source A N250:3 Source N250:1 68< 5< Dest N254:[N250:3] Source B -1 -1< 4< N252:[RANK6 OF INEWBIN] -MOV -Move Source N252:[N250:2] N252:[N250:1] Dest 46< N251:[RANK6 OF INEWBIN] -MOV -Move Source N251:[N250:2] 563< N251:[N250:1] Dest 345<







# Data File OO (bin) -- OUTPUT

Offset	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
0:0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
0:0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
0:0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B
0:0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Bul.1763	MicroLogix 1100 Series B

# 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	1	0	0	Bul.1763	MicroLogix 1100 Series B-Analog Inp 0
I:0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	Bul.1763	MicroLogix 1100 Series B-Analog Inp 1

### Data File S2 (hex) -- STATUS

### Main

```
Processor Mode S:1/0 - S:1/4 = Remote Run
On Power up Go To Run (Mode Behavior) S:1/12 = 0
First Pass S:1/15 = No
Free Running Clock S:4 = 0110-1110-0110-0101
```

### Proc

```
OS Catalog Number S:57 = 1100

OS Series S:58 = B

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 = 72
Watchdog (x10 ms) S:3 (high byte) = 10
Last 100 uSec Scan Time S:35 = 8
Scan Toggle Bit S:33/9 = 0
```

### Math

```
Math Overflow Selected S:2/14 = 1 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 = 1 Sign Bit S:0/3 = 0
```

### Chan 0

```
Processor Mode S:1/0- S:1/4 = Remote Run

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 Major Error S:6 = 0h Major Error Halt S:1/13 = 0 Error Description: Control Register Error S:5/2 = 0 Error Description: 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 = True

### Mem Module

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

### 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	-/	6	5	4	3	2	1	0	(Symbol) D	escription	
в3:0	1	0	0	0	0	0	0	0	0	0	1	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			

### Data File T4 -- TIMER

Offset	EN	ΤТ	DN	BASE	PRE	ACC	(Symbol) Description
T4:0 T4:1	_	_	-	.001 sec	100 100		(LOAD CELL SAMPLING) (LOAD_CELL_SAMPLING2)

## Data File C5 -- COUNTER

Offset	CU	CD	DN	OV	UN	UA	PRE	ACC	(Symbol) Description
C5:0 C5:1									(STEADY COUNT) (TOTAL_COUNT)

## 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 16 0

Data	File	Ν7	(dec)	 INTEGER

Offset 6 7 N7:0 

Page 1 (Radix Decimal)

## Data File F8 -- FLOAT

Offset 0 1 2 3 4

F8:0 0

## Data File F249 -- RNK6FLOATS

Offset  F249:0 F249:5 F249:10 F249:15 F249:20 F249:25 F249:30 F249:35	0 252297.8 183.8016 0 0 0 0	1 931 0 0 0 0 0	2 270.9966 0 0 0 0	3 106421.1 0 0 0	4 579 0 0
F249:5 F249:10 F249:15 F249:20 F249:25 F249:30	183.8016 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0
F249:5 F249:10 F249:15 F249:20 F249:25 F249:30	183.8016 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0
F249:15 F249:20 F249:25 F249:30	0 0 0 0 0	0 0 0	0	0	0
F249:15 F249:20 F249:25 F249:30	0 0 0	0 0 0	0		
F249:25 F249:30	0	0	0	0	
F249:25 F249:30	0		Ω		0
F249:30		0	U	0	0
	0		0	0	0
		0	0	0	0
F249:40	0	0	0	0	0
F249:45	0	0	0	0	0
F249:50	0	0	0	0	0
F249:55	0	0	0	0	0
F249:60	0	0	0	0	0
F249:65	0	0	0	0	0
F249:70	0	0	0	0	0
F249:75	0	0	0	0	0
F249:80	0	0	0	0	0
F249:85	0	0	0	0	0
F249:90	0	0	0	0	0
F249:95	0	0	0	0	0
F249:100	0	0	0	0	0
F249:105	0	0	0	0	0
F249:110	0	0	0	0	Ō
F249:115	0	0	0	0	0
F249:120	0	0	0	0	0
F249:125	0	0	0	0	0
F249:130	0	0	0	0	0
F249:135	0	0	0	0	0
F249:140	0	0	0	0	0
F249:145	0	0	0	0	0
F249:150	0	0	0	0	0
F249:155	0	0	0	0	0
F249:160	0	0	0	0	0
F249:165	0	0	0	0	0
F249:170	0	0	0	0	0
F249:175	0	0	0	0	0
F249:180	0	0	0	0	0
F249:185	0	0	0	0	0
F249:190	0	0	0	0	0
F249:195	0	0	0	0	0
F249:200	0	0	0	0	0
F249:205	0	0	0	0	0
F249:210	0	0	0	0	0
F249:215	0	0	0	0	0
F249:220	0	0	0	0	0
F249:225	Ō	Ō	Ö	0	0
F249:230	0	0	0	0	0
F249:235	0	Ō	0	0	0
F249:240	0	0	0	0	0
F249:245	Ō	Ō	Ö	0	0

## Data File F249 -- RNK6FLOATS

Offset	0	1	2	3	4
F249:250 F249:255	0	0	0	0	0

```
Offset
                   (Symbol) Description
N250:0
             46 (INEWBIN)
N250:1
              5
                  (RANK6 OF INEWBIN)
             6 (RANK6 OF NEXT BIN UP)
N250:2
N250:3
             68 (INEXT BIN UP)
N250:4
             0
                  (BUBBLE SORT PASS)
N250:5
             66 (1ST PEAK LO LIMIT)
             70
N250:6
                 (1ST PEAK HI LIMIT)
N250:7
             44
                 (2ND PEAK LO LIMIT)
             47
                  (2ND PEAK HI LIMIT)
N250:8
N250:9
              0
                  (PEAKS IRANK6)
N250:10
             38
                  (PEAKS IBIN)
N250:11
              0
N250:12
N250:13
              0
               0
N250:14
              0
N250:15
N250:16
              0
N250:17
              0
N250:18
              0
              0
N250:19
N250:20
              0
N250:21
              0
N250:22
              0
              0
N250:23
N250:24
              0
N250:25
N250:26
              0
N250:27
N250:28
              0
N250:29
              0
N250:30
              0
N250:31
N250:32
              0
N250:33
              0
              0
N250:34
N250:35
              0
N250:36
              0
N250:37
              0
              0
N250:38
N250:39
              0
              0
N250:40
N250:41
              0
N250:42
N250:43
              0
N250:44
N250:45
              0
              0
N250:46
N250:47
              0
              0
N250:48
N250:49
```

Offset	0	(Symbol)	Description
OIISEC	U	(SYMDOI)	Description
N250:50	0		
N250:51	0		
N250:52	0		
N250:53	0		
N250:54	0		
N250:55	0		
N250:56	0		
N250:57	0		
N250:58	0		
N250:59	0		
N250:60	0		
N250:61	0		
N250:62	0		
N250:63	0		
N250:64	0		
N250:65	0		
N250:66	0		
N250:67	0		
N250:68	0		
N250:69	0		
N250:70	0		
N250:71	0		
N250:72	0		
N250:73	0		
N250:74	0		
N250:75	0		
N250:76	0		
N250:77	0		
N250:78	0		
N250:79	0		
N250:80	0		
N250:81	0		
N250:82	0		
N250:83	0		
N250:84	0		
N250:85	0		
N250:86	0		
N250:87	0		
N250:88	0		
N250:89	0		
N250:90	0		
N250:91	0		
N250:92	0		
N250:93	0		
N250:94	0		
N250:95	0		
N250:96	0		
N250:97	0		
N250:97 N250:98 N250:99			

Offset	0	(Symbol)	Description				
N250:100	0						
N250:100	0						
N250:101	0						
N250:103	0						
1250:104	0						
250:105	0						
N250:106	0						
1250:107	0						
N250:107	0						
1250:109	0						
N250:110	0						
N250:111	0						
N250:111	0						
N250:112	0						
N250:113	0						
N250:111	0						
N250:115	0						
N250:110	0						
1250:117	0						
N250:110	0						
N250:115	0						
1250:120	0						
250:121	0						
250:123	0						
1250:125	0						
N250:125	0						
N250:126	0						
N250:127	0						
1250:128	0						
1250:129	0						
1250:130	0						
1250:131	0						
1250:132	0						
N250:133	0						
1250:134	0						
N250:135	0						
N250:136	0						
N250:137	0						
1250:138	0						
1250:139	0						
1250:140	0						
1250:141	0						
1250:142	0						
1250:143	0						
1250:144	0						
1250:145	0						
1250:146	0						
1250:147	0						
N250:148	0						
1250:149	0						

Offset	0	(Symbol) Desci	ription
NOTO 150	0		
N250:150	0		
N250:151	0		
N250:152	0		
N250:153	0		
N250:154	0		
N250:155	0		
N250:156	0		
N250:157	0		
N250:158	0		
N250:159	0		
N250:160	0		
N250:161	0		
N250:162	0		
N250:163	0		
N250:164	0		
N250:165	0		
N250:166	0		
N250:167	0		
N250:167	0		
N250:169	0		
N250:109	0		
N250:170 N250:171	0		
N250:171 N250:172			
	0		
N250:173	0		
N250:174	0		
N250:175	0		
N250:176	0		
N250:177	0		
N250:178	0		
N250:179	0		
N250:180	0		
N250:181	0		
N250:182	0		
N250:183	0		
N250:184	0		
N250:185	0		
N250:186	0		
N250:187	0		
N250:107	0		
N250:189	0		
N250:189	0		
N250:190 N250:191	0		
N250:192	0		
N250:193	0		
N250:194	0		
N250:195	0		
N250:196	0		
N250:197	0		

	0	(Symbol) Description	
N250:200	0		
1250:201	0		
250:202	0		
250:203	0		
250:204	0		
250:205	0		
250:206	0		
250:207	0		
250:208	0		
250:209	0		
250:210	0		
250:211	0		
250:212	0		
250:213	0		
250:214	0		
250:215	Ō		
250:216	0		
250:217	Ö		
250:218	Ō		
250:219	0		
250:220	0		
250:221	0		
250:222	0		
250:223	0		
250:224	0		
250:225	0		
250:226	0		
250:227	0		
250:228	0		
250:229	0		
250:230	0		
250:231	0		
250:232	0		
250:233	0		
250:234	0		
250:235	0		
250:236	0		
250:237	0		
250:238	0		
250:239	0		
250:240	0		
250:241	0		
250:242	0		
250:243	0		
250:244	0		
250:245	0		
	0		
	^		
	0		
250:246 250:247 250:248 250:249	0		

Page 5 (Radix Decimal)

Offset	0	(Symbol)	Description
N250:250	0		
N250:251	0		
N250:252	0		
N250:253	0		
N250:254	0		
N250:255	0		

Doto	T2 4 1 A	NTO E 1	(dec)	RNK6COUNTS
Data	F1 1 E	NZ5I	(dec)	 RNK6COUNTS

5 6 7 8 9

N251:0 

Offset

5 6 7 8 9

N252:0 70 38 69 45 68 46 67

3

4

2

Page 1 (Radix Decimal)

Offset

0

1

Data	File	N253	(dec)	 COUNT	Т

Offset	0	1	2	3	4	5	6	7	8	9
N253:0	0	0	0	0	0	0	0	0	0	0
N253:10	0	0	0	0	0	0	0	0	0	0
N253:20	0	0	0	0	0	0	0	0	5	4
N253:30	7	6	9	23	18	10	4	12	39	9
N253:40	5	1	3	3	19	234	345	15	6	2
N253:50	4	2	7	5	4	4	3	3	2	1
N253:60	5	6	4	7	4	10	19	563	329	39
N253:70	34	4	0	1	2	1	2	0	3	4
N253:80	1	1	0	0	1	0	0	0	1	0
N253:90	1	1	0	1	0	0	1	0	0	1
N253:100	0	1	0	0	1	2	0	2	2	2
N253:110	1	2	0	0	0	0	0	0	0	0
N253:120	0	0	0	0	0	0	0	0	0	0
N253:130	0	0	0	0	0	0	0	0	0	0
N253:140	0	0	0	0	0	0	0	0	0	0
N253:150	0	0	0	0	0	0	0	0	0	0
N253:160	0	0	0	0	0	0	0	0	0	0
N253:170	0	0	0	0	0	0	0	0	0	0
N253:180	0	0	0	0	0	0	0	0	0	0
N253:190	0	0	0	0	0	0	0	0	0	0
N253:200	0	0	0	0	0	0	0	0	0	0
N253:210	0	0	0	0	0	0	0	0	0	0
N253:220	0	0	0	0	0	0	0	0	0	0
N253:230	0	0	0	0	0	0	0	0	0	0
N253:240	0	0	0	0	0	0	0	0	0	0
N253:250	0	0	0	0	0	0				

9

5 6 7 8

N254:0	0	0	0	0	0	0	0	0	0	0
N254:10	0	0	0	0	0	0	0	0	0	0
N254:20	0	0	0	0	0	0	0	0	0	0
N254:30	0	0	0	0	0	0	0	0	1	0
N254:40	0	0	0	0	0	3	5	0	0	0
N254:50	0	0	0	0	0	0	0	0	0	0
N254:60	0	0	0	0	0	0	0	6	4	2
N254:70	0	0	0	0	0	0	0	0	0	0
N254:80	0	0	0	0	0	0	0	0	0	0
N254:90	0	0	0	0	0	0	0	0	0	0
N254:100	0	0	0	0	0	0	0	0	0	0
N254:110	0	0	0	0	0	0	0	0	0	0
N254:120	0	0	0	0	0	0	0	0	0	0
N254:130	0	0	0	0	0	0	0	0	0	0
N254:140	0	0	0	0	0	0	0	0	0	0
N254:150	0	0	0	0	0	0	0	0	0	0
N254:160	0	0	0	0	0	0	0	0	0	0
N254:170	0	0	0	0	0	0	0	0	0	0
N254:180	0	0	0	0	0	0	0	0	0	0
N254:190	0	0	0	0	0	0	0	0	0	0
N254:200	0	0	0	0	0	0	0	0	0	0
N254:210	0	0	0	0	0	0	0	0	0	0
N254:220	0	0	0	0	0	0	0	0	0	0
N254:230	0	0	0	0	0	0	0	0	0	0
N254:240	0	0	0	0	0	0	0	0	0	0
N254:250	0	0	0	0	0	0				

4

Offset

0

1 2 3

# Data File F255 -- SUM\_I

Offset	0	1	2	3	4
F255:0	0	0	0	0	0
F255:5	Õ	0	0	0	Ő
F255:10	0	0	0	0	0
F255:10	0	0	0	0	0
F255:15	0	0	0	0	0
F255:25	0	0	0		•
		· ·		572.8938	468.8645
F255:30	849.0842	749.6947	1161.416	3073.26	2471.795
F255:35	1410.745	586.3248	1799.267	5978.022	1417.582
F255:40	803.4188	164.1026	506.2271	522.3444	3364.103
F255:45	42745.34	63675.77	2842.735	1157.753	394.1392
F255:50	803.663	409.5238	1466.178	1068.62	867.3993
F255:55	884.7375	676.1905	688.4005	468.8645	237.1184
F255:60	1205.861	1475.214	994.3834	1772.161	1028.083
F255:65	2613.187	5060.317	151760.3	89690.55	10846.88
F255:70	9528.692	1146.276	0	295.2381	594.3834
F255:75	300.6105	608.7912	0	938.7057	1269.841
F255:80	320.1465	325.0305	0	0	338.4615
F255:85	0	0	0	351.6483	0
F255:90	361.4164	364.3468	0	373.138	0
F255:95	0	386.0806	0	0	395.6044
F255:100	0	405.8608	0	0	417.3382
F255:105	843.7119	0	859.3407	867.6434	874.9695
F255:110	441.514	888.6447	0	0	0
F255:115	0	0	0	0	0
F255:120	0	0	0	0	0
F255:125	0	0	0	0	0
F255:130	0	0	0	0	0
F255:135	0	0	0	0	0
F255:140	0	0	0	0	0
F255:145	0	0	0	0	0
F255:150	0	0	0	0	0
F255:155	0	0	0	0	0
F255:160	0	0	0	0	0
F255:165	0	0	0	0	0
F255:170	0	0	0	0	0
F255:175	0	0	0	0	0
F255:180	0	0	0	0	0
F255:185	0	0	0	0	0
F255:190	0	0	0	0	0
F255:195	0	0	0	0	0
F255:200	0	0	0	0	0
F255:205	0	0	0	0	0
F255:210	0	0	0	0	0
F255:215	0	0	0	0	0
F255:220	0	0	0	0	0
F255:225	0	0	0	Ö	0
F255:230	0	0	0	0	0
F255:235	0	0	Ö	Ō	Ö
F255:240	0	0	0	0	0
F255:245	Õ	0	0	0	Ő
					<u> </u>

D 2 + 2	File	E255	 SUM	т
Dala	гтте	ピとうう	 SUM	

Offset	0	1	2	3	4
F255:250 F255:255	0	0	0	0	0

<b>1</b>							
Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
B3:0/0	SEND_LOAD_CELL_DATUM	Global					
B3:0/1	RESET_TRAINING	Global					
B3:0/2	NEW_DATA_ONESHOT	Global					
B3:0/3	EMULATE_LOADCELLDATA	Global					
B3:0/4	CANCEL_TRAINING	Global					
B3:0/5	TRAINING_IS_INACTIVE	Global					
B3:0/6	TRAINING_FINISHED	Global					
B3:0/13	TRAINING_FINISH_ONSM	Global					
B3:0/14	RESET_FALLING_ONS_M	Global					
B3:0/15	NEW_DATA_ONESHOT_MEM	Global					
C5:0	STEADY_COUNT	Global					
C5:1	TOTAL_COUNT	Global					
F8:0	LOAD_CELL_INPUT	Global					
F8:1	FILTERED_DATA	Global					
F8:2	FILTER_PARAMETER	Global					
F8:3	TEMPORARY_FLOAT	Global					
F8:4	DATA_DIFFERENCE	Global					
F8:5	FILTERED_DATA_LOW	Global					
F8:6	FILTERED_DATA_HIGH	Global					
F8:7	FILTERED_DATA_THIRD	Global					
F249:0	1ST_PEAK_VALUES_SUM	Global					
F249:1	1ST_PEAK_COUNTS_SUM	Global					
F249:2	1ST_PEAK_WEIGHT_MEAN	Global					
F249:3	2ND_PEAK_VALUES_SUM	Global					
F249:4	2ND_PEAK_COUNTS_SUM	Global					
F249:5	2ST_PEAK_WEIGHT_MEAN	Global					
F255:[N250:0]	SUM_IBINS	Global					
N7:0	PASS_NUMBER	Global					
N7:1	LOAD_CELL_RAW_INPUT	Global					
N250:0	INEWBIN	Global					
N250:1	RANK6_OF_INEWBIN	Global					
N250:2	RANK6_OF_NEXT_BIN_UP	Global					
N250:3	INEXT_BIN_UP	Global					
N250:4	BUBBLE_SORT_PASS	Global					
N250:5	1ST_PEAK_LO_LIMIT	Global					
N250:6	1ST_PEAK_HI_LIMIT	Global					
N250:7	2ND_PEAK_LO_LIMIT	Global					
N250:8	2ND_PEAK_HI_LIMIT	Global					
N250:9	PEAKS_IRANK6	Global					
N250:10	PEAKS_IBIN	Global					
N251:0	RANK6_COUNTS_ARRAY	Global					
N252:0	RANK6_BINS_ARRAY	Global					
N253:[N250:0]	COUNT_INEWBIN	Global					
N254:[N250:0]	RANK6_INEWBIN	Global					
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							
5:1/9			Startup Protection Fault				
S:1/9 S:1/10			Startup Protection Fault Load Memory Module on Memory Error				
S:1/10			Load Memory Module on Memory Error				

		_					
Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
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 S:3			Comms Servicing Selection				
S:4			Current Scan Time/ Watchdog Scan Time Time Base				
S:5/0			Overflow Trap				
S:5/2			Control Register Error				
S:5/2 S:5/3			Major Err Detected Executing UserFault Routine				
S:5/4			MO-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 S:17			Debug Single Step Rung Debug Single Step File				
S:18			Debug Single Step File 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 S:33/1			Incoming Command Pending Message Reply Pending				
S:33/1			Outgoing Message Command Pending				
S:33/2 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:33/0 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				

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
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 S:37			Memory Module Data File Overwrite Protection				
S:38			Clock Calendar Year 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 S:57			Maximum Observed DII Scan Time Operating System Catalog Number				
S:58			Operating System Catalog Number 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 O Active Nodes				
S:68			Channel O Active Nodes				
S:69			Channel O Active Nodes				
s:70			Channel O Active Nodes				
S:71			Channel O Active Nodes				
S:72			Channel O Active Nodes				
S:73			Channel O Active Nodes				
S:74			Channel O Active Nodes				
S:75 S:76			Channel 0 Active Nodes Channel 0 Active Nodes				
S:77			Channel O Active Nodes Channel O Active Nodes				
S:78			Channel O Active Nodes				
S:79			Channel O Active Nodes Channel O Active Nodes				
S:80			Channel O Active Nodes				
S:81			Channel O Active Nodes				
S:82			Channel O Active Nodes				
S:83			DH+ Active Nodes				
S:84			DH+ Active Nodes				
S:85			DH+ Active Nodes				
S:86			DH+ Active Nodes				
T4:0	LOAD_CELL_SAMPLING	Global					
	TOAD OUTT CAMPITATOO	Global					
T4:1 U:3	LOAD_CELL_SAMPLING2 FILTER DATA	Global					

Address	Symbol	Scope	Description	Sym Group	Dev. Code	ABV	BLW
U:4 U:5 U:251 U:252 U:253 U:254 U:255	READ_LOAD_CELL_DATA TRAINING ADD_ONE_RANK6_MEMBER CALC_PEAKS_MEANS RANK6_ADD_NEW_VALUE RANK6_BUBBLE_SORT RESET_RANK6_ARRAYS	Global Global Global Global Global Global Global					

### Instruction Comment Database

Address Instruction Description

## Symbol Group Database

Group\_Name Description