



Save File Name: E:\Projects\OceanAcidification\DIC analyzer\Software\TCO2_Li7000_v1.31.vee

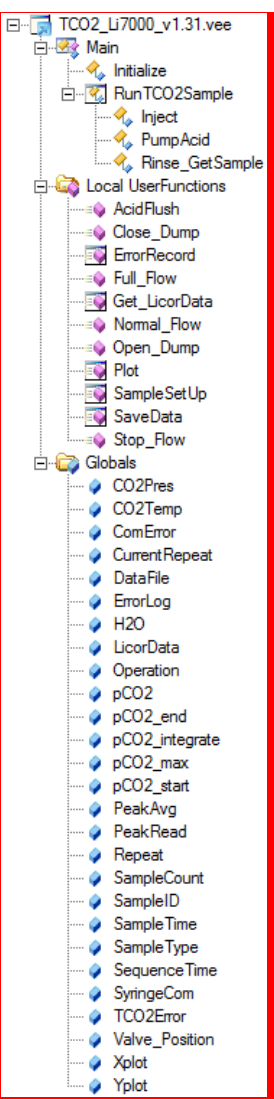
Save File Last Revised: Tue Oct 19 13:04:52 2010

Save File Format: 7.0

Agilent VEE Pro Revision: 9.2.13522.0

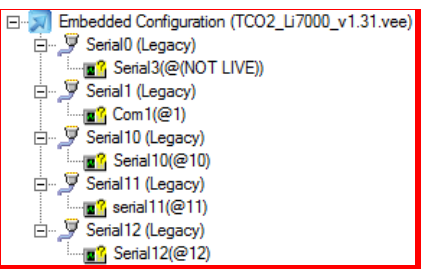
Execution mode: VEE 6 Execution Mode

Program Explorer Overview

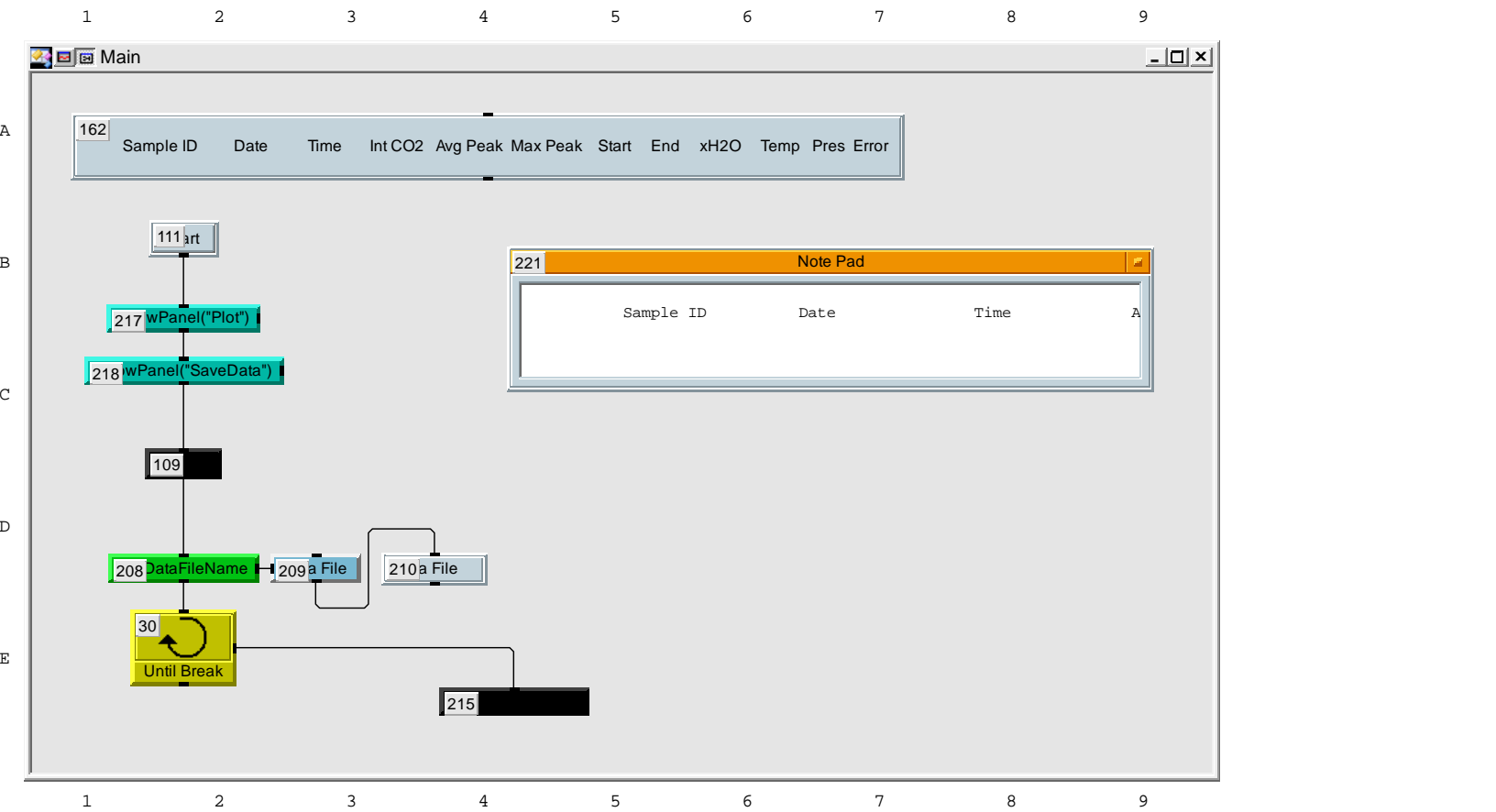


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I/O Configuration



Main (M): Detail View, Total Objects: 11



Main "Main"

30 at: E2 Until Break "Until Break"

ObjectIndex: M.30

Declared Scope: Local to Context

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

109 at: C2 UserObject "Initialize"

111 at: B2 Start "Start"

ObjectIndex: M.111

Declared Scope: Local to Context

ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

162 at: A4 Label "

ObjectIndex: M.162

Declared Scope: Local to Context

Label: "Sample IDDateTimeInt CO2Avg PeakMax PeakStartEndxH2OTempPresError"

ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

208 at: D2 Get Variable "GetDataFileName"

ObjectIndex: M.208

Declared Scope: Local to Context

Global Name: "DataFile"

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

209 at: D3 AlphaNumeric "Data File" is added to panel

ObjectIndex: M.209

Declared Scope: Local to Context

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

210 at: D4 Label "Data File" is added to panel

ObjectIndex: M.210

Declared Scope: Local to Context

Label: "Data File"

ShowTitleBar: false

ShowTerminals: false

res Error"

r"

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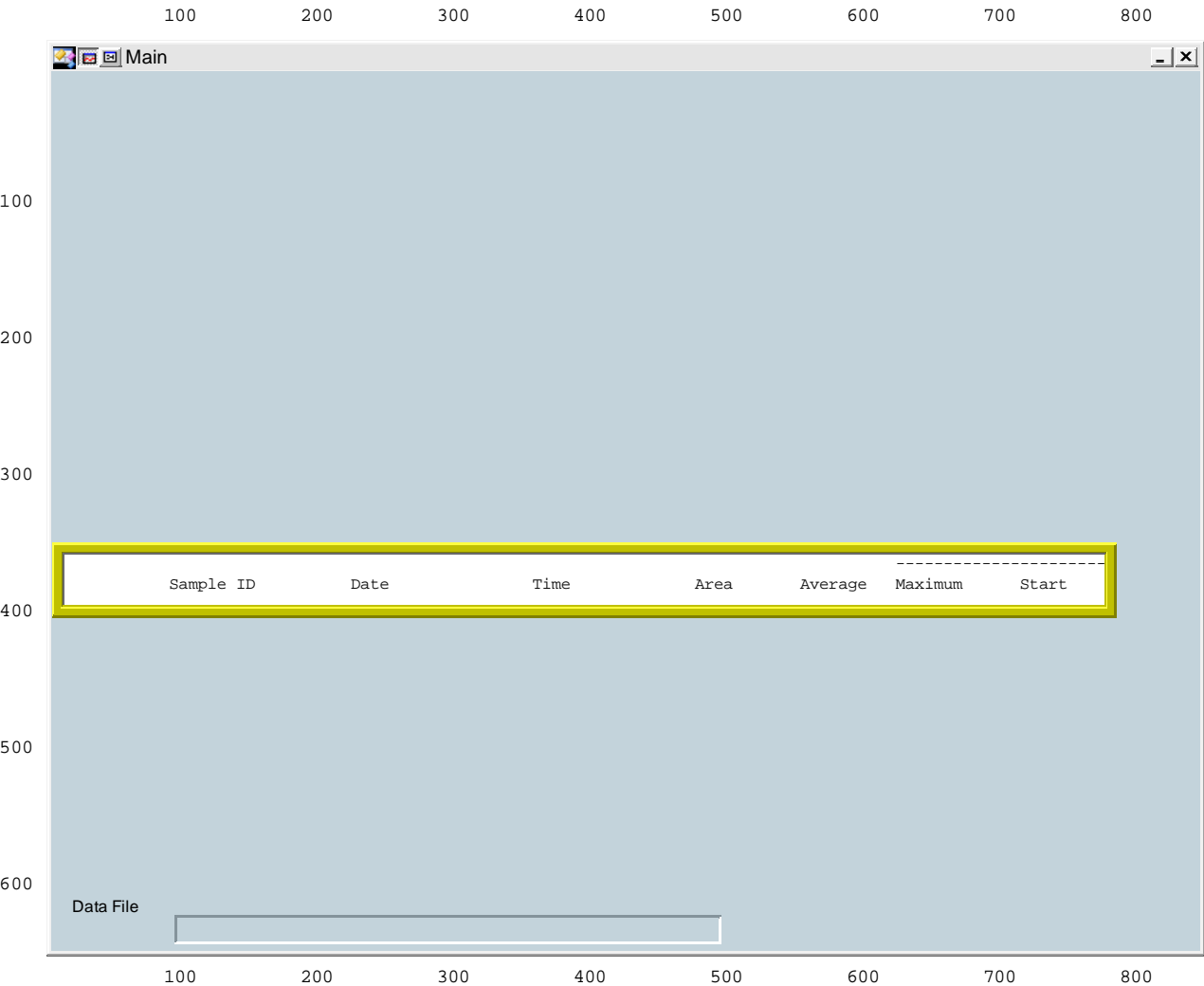
```
└─ ShowIconTitle: true
215 at: E4  UserObject "RunTCO2Sample"
217 at: B2  Formula "ShowPanel("Plot")"
└─ ObjectIndex: M.217
└─ Declared Scope: Local to Context
└─ Formula: ShowPanel("Plot", 0, 0, 880, 340)
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
218 at: C2  Formula "ShowPanel("SaveData")"
└─ ObjectIndex: M.218
└─ Declared Scope: Local to Context
└─ Formula: ShowPanel("SaveData", 0, 400)
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
221 at: B7  Note Pad "Note Pad" is added to panel
└─ ObjectIndex: M.221
└─ Declared Scope: Local to Context
└─ Note Contents: 2 lines.
└─
└─
└─ Sample ID      Date      Time      Area      Average      Maximum      Start      CO2 Peak      End      Water
└─ ShowTitleBar: true
└─ ShowTerminals: false
└─ ShowIconTitle: true
```

Temp.

Press.

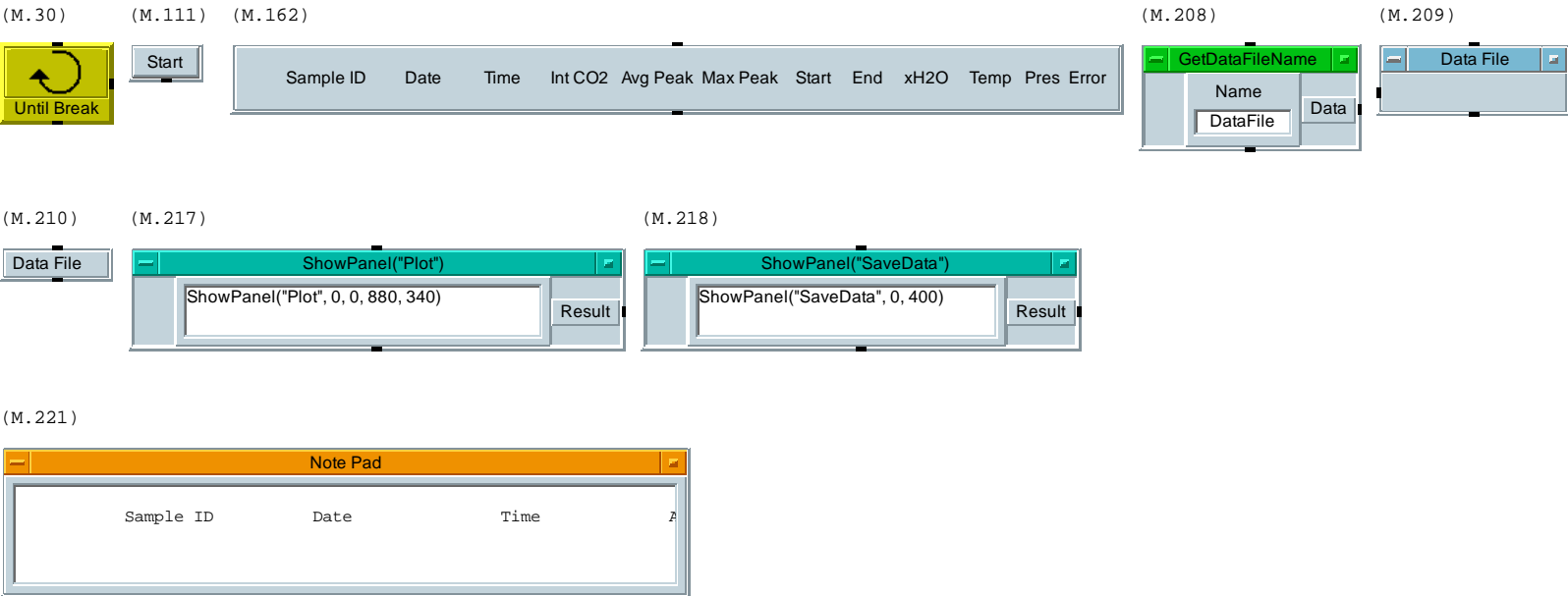
Error

Main: Panel View



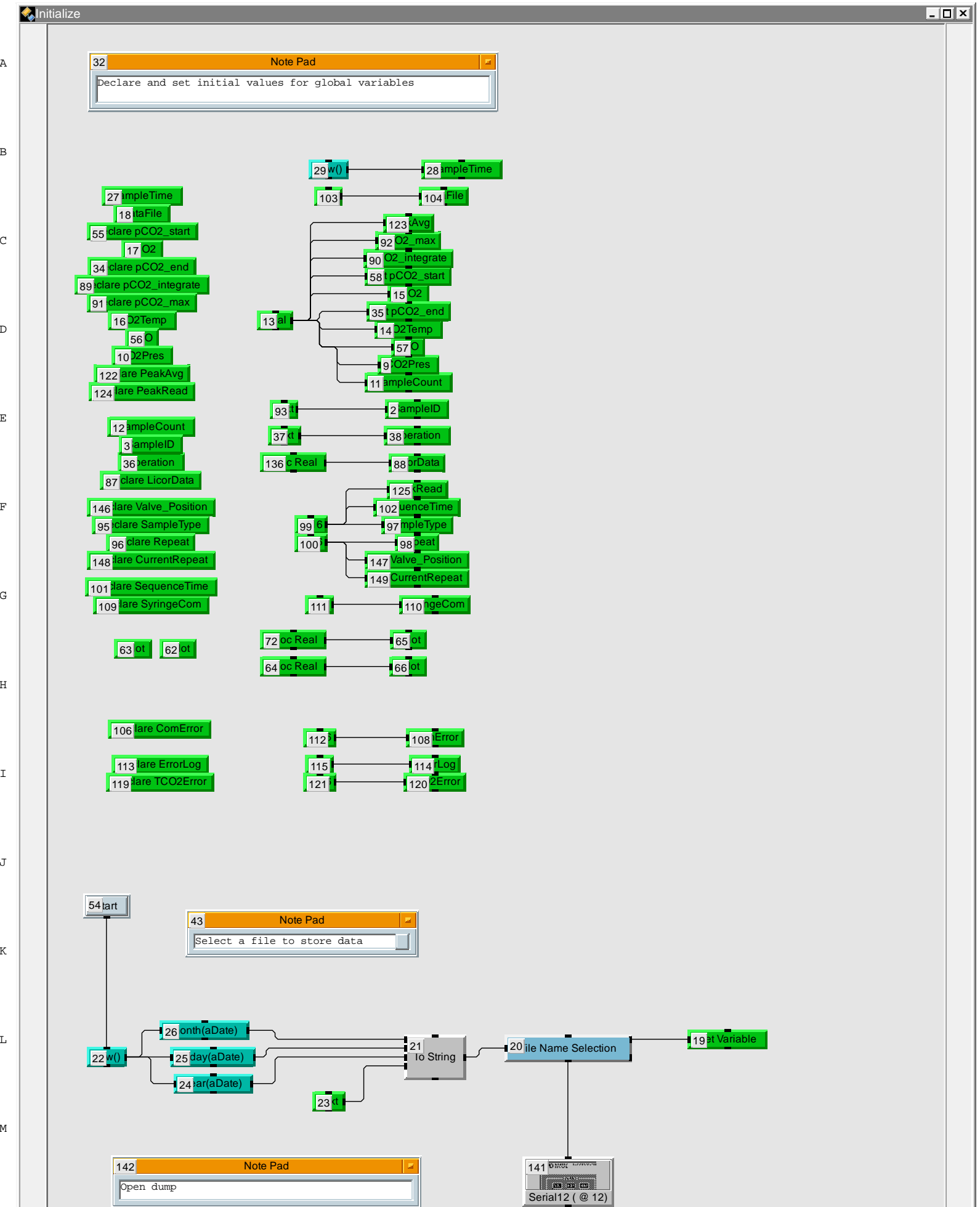
```
PanelView "Main" (w=841, h=644)
├ 210: Label "Data File" (x=10, y=600) (w=70, h=25)
├ 209: AlphaNumeric "Data File" (x=90, y=618) (w=400, h=21)
└ 221: Note Pad "Note Pad" (x=0, y=345) (w=780, h=55)
```

Main: Object Views

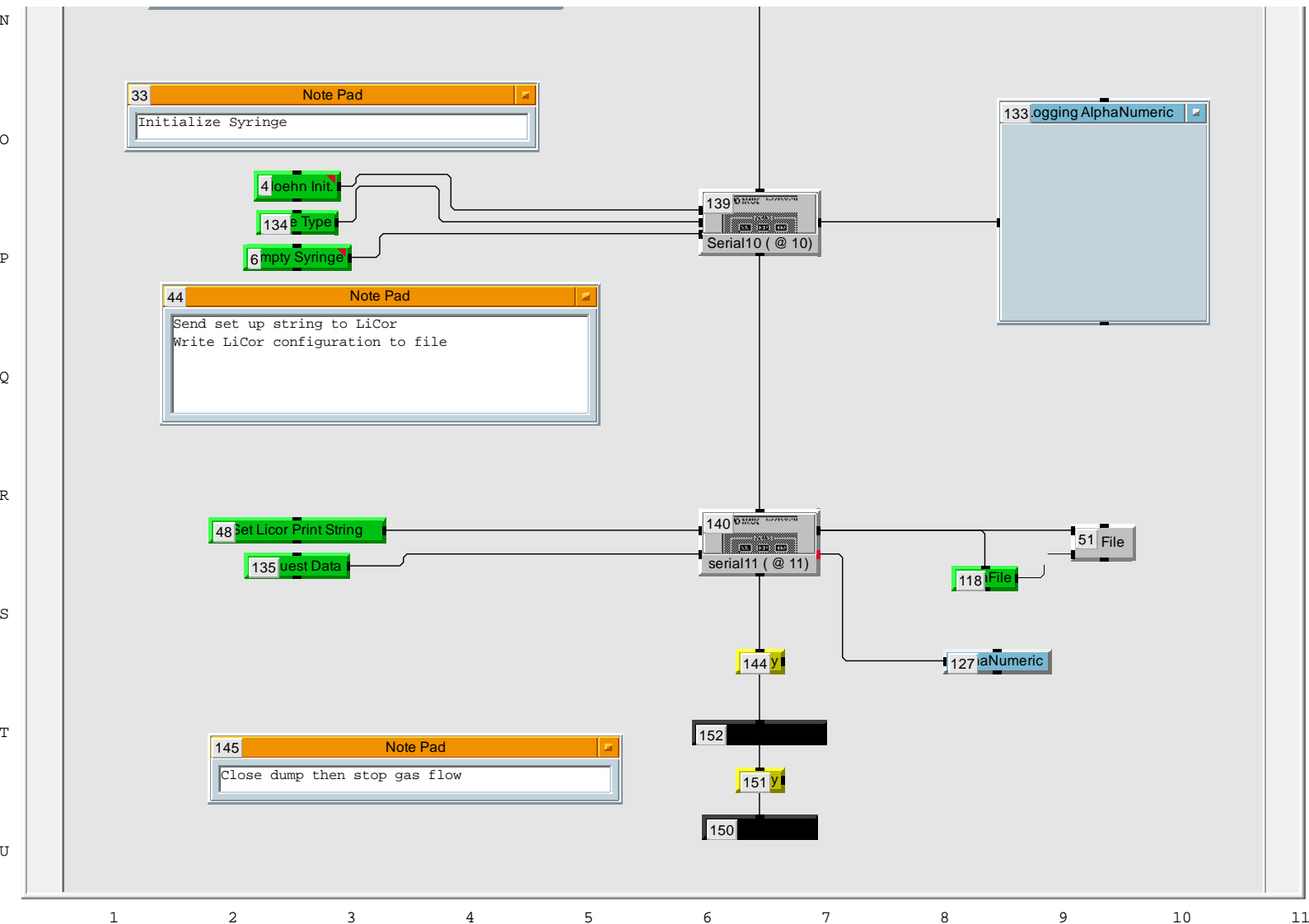


Main: Initialize (M.109): Detail View, Total Objects: 99

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```

UserObject "Initialize"
- 2 at: E5 Set Variable "SampleID"
  ObjectIndex: M.109.2
  Declared Scope: Local to Context
  Global Name: "SampleID"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
- 3 at: E2 Declare Variable "SampleID"
  ObjectIndex: M.109.3
  Variable Scope: Global
  Global Name: "SampleID"
  ShowTitleBar: true
  ShowIconTitle: true
- 4 at: O2 Text Constant "Kloehn Init."
  ObjectIndex: M.109.4
  Description: Valve 2 to port 2
  Declared Scope: Local to Context
  DataShape: Scalar
  ArraySize: 10
  EnableEditing: true
  ShowTitleBar: true
  ShowTerminals: false
  ShowIconTitle: true
- 6 at: P2 Text Constant "Empty Syringe"
  ObjectIndex: M.109.6
  Description: Valve 1 to Port 2
  Declared Scope: Local to Context
  DataShape: Scalar
  ArraySize: 10
  EnableEditing: true
  ShowTitleBar: true
  ShowTerminals: false

```

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```
|  ShowIconTitle: true
9 at: D5  Set Variable "CO2Pres"
|  ObjectIndex: M.109.9
|  Declared Scope: Local to Context
|  Global Name: "CO2Pres"
|  ShowTitleBar: true
|  ShowTerminals: true
|  ShowIconTitle: true
10 at: D2  Declare Variable "CO2Pres"
|  ObjectIndex: M.109.10
|  Variable Scope: Global
|  Global Name: "CO2Pres"
|  ShowTitleBar: true
|  ShowIconTitle: true
11 at: E5  Set Variable "SampleCount"
|  ObjectIndex: M.109.11
|  Declared Scope: Local to Context
|  Global Name: "SampleCount"
|  ShowTitleBar: true
|  ShowTerminals: true
|  ShowIconTitle: true
12 at: E2  Declare Variable "SampleCount"
|  ObjectIndex: M.109.12
|  Variable Scope: Global
|  Global Name: "SampleCount"
|  ShowTitleBar: true
|  ShowIconTitle: true
13 at: D3  Constant "Real"
|  ObjectIndex: M.109.13
|  Declared Scope: Local to Context
|  InitialValue: 0
|  DetentSize: 1
|  DataShape: Scalar
|  ArraySize: 10
|  EnableEditing: true
|  ShowTitleBar: true
|  ShowTerminals: false
|  ShowIconTitle: true
14 at: D5  Set Variable "CO2Temp"
|  ObjectIndex: M.109.14
|  Declared Scope: Local to Context
|  Global Name: "CO2Temp"
|  ShowTitleBar: true
|  ShowTerminals: true
|  ShowIconTitle: true
15 at: D5  Set Variable "pCO2"
|  ObjectIndex: M.109.15
|  Declared Scope: Local to Context
|  Global Name: "pCO2"
|  ShowTitleBar: true
|  ShowTerminals: true
|  ShowIconTitle: true
16 at: D2  Declare Variable "CO2Temp"
|  ObjectIndex: M.109.16
|  Variable Scope: Global
|  Global Name: "CO2Temp"
|  ShowTitleBar: true
|  ShowIconTitle: true
17 at: C2  Declare Variable "pCO2"
|  ObjectIndex: M.109.17
|  Variable Scope: Global
|  Global Name: "pCO2"
|  ShowTitleBar: true
|  ShowIconTitle: true
18 at: C2  Declare Variable "DataFile"
|  ObjectIndex: M.109.18
|  Variable Scope: Global
|  Global Name: "DataFile"
|  ShowTitleBar: true
|  ShowIconTitle: true
19 at: L8  Set Variable "Set Variable"
|  ObjectIndex: M.109.19
|  Declared Scope: Local to Context
|  Global Name: "DataFile"
```

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| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
20 at: L6 File Selection "File Name Selection"
| ObjectIndex: M.109.20
| Declared Scope: Local to Context
| Prompt/Label: "Enter File Name:"
| Initial Directory: "C:\\TCO2\\"
| Initial File: "01-14-2009.DIC"
| Dialog Mode: Writing
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
21 at: L5 To String "To String"
| ObjectIndex: M.109.21
| Declared Scope: Local to Context
| Transactions: 6 lines.
| WRITE TEXT a INT32:2
| WRITE TEXT "-"
| WRITE TEXT b INT32:2
| WRITE TEXT "-"
| WRITE TEXT c INT32:4
| WRITE TEXT d EOL
| MultiFieldFormat: (...) Syntax
| ArrayFormat: Block
| ArraySeparator: " "
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
22 at: L1 Formula "now()"
| ObjectIndex: M.109.22
| Declared Scope: Local to Context
| Formula: now()
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
23 at: M4 Text Constant "Text"
| ObjectIndex: M.109.23
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
24 at: L2 Formula "year(aDate)"
| ObjectIndex: M.109.24
| Declared Scope: Local to Context
| Formula: year(aDate)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
25 at: L2 Formula "mday(aDate)"
| ObjectIndex: M.109.25
| Declared Scope: Local to Context
| Formula: mday(aDate)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
26 at: L2 Formula "month(aDate)"
| ObjectIndex: M.109.26
| Declared Scope: Local to Context
| Formula: month(aDate)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
27 at: B2 Declare Variable "SampleTime"
| ObjectIndex: M.109.27
| Variable Scope: Global
| Global Name: "SampleTime"
| ShowTitleBar: true
| ShowIconTitle: true
28 at: B5 Set Variable "SampleTime"
| ObjectIndex: M.109.28
```

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```
| Declared Scope: Local to Context
| Global Name: "SampleTime"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
29 at: B4 Formula "now()"
| ObjectIndex: M.109.29
| Declared Scope: Local to Context
| Formula: now()
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
32 at: A3 Note Pad "Note Pad"
| ObjectIndex: M.109.32
| Declared Scope: Local to Context
| Note Contents: Declare and set initial values for global variables
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
33 at: O3 Note Pad "Note Pad"
| ObjectIndex: M.109.33
| Declared Scope: Local to Context
| Note Contents: Initialize Syringe
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
34 at: C2 Declare Variable "Declare pCO2_end"
| ObjectIndex: M.109.34
| Variable Scope: Global
| Global Name: "pCO2_end"
| ShowTitleBar: true
| ShowIconTitle: true
35 at: D5 Set Variable "Set pCO2_end"
| ObjectIndex: M.109.35
| Declared Scope: Local to Context
| Global Name: "pCO2_end"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
36 at: E2 Declare Variable "Operation"
| ObjectIndex: M.109.36
| Variable Scope: Global
| Global Name: "Operation"
| ShowTitleBar: true
| ShowIconTitle: true
37 at: E3 Text Constant "Text"
| ObjectIndex: M.109.37
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
38 at: E5 Set Variable "Operation"
| ObjectIndex: M.109.38
| Declared Scope: Local to Context
| Global Name: "Operation"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
43 at: K3 Note Pad "Note Pad"
| ObjectIndex: M.109.43
| Declared Scope: Local to Context
| Note Contents: Select a file to store data
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
44 at: Q3 Note Pad "Note Pad"
| ObjectIndex: M.109.44
| Declared Scope: Local to Context
| Note Contents: 3 lines.
| Send set up string to LiCor
| Write LiCor configuration to file
```

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| L
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
48 at: R2  Text Constant "Set Licor Print String"
| ObjectIndex: M.109.48
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
51 at: R9  To File "To File"
| ObjectIndex: M.109.51
| Declared Scope: Local to Context
| Transactions: 2 lines.
|   WRITE TEXT a EOL
|   EXECUTE CLOSE
| EolSequence: "\r\n"
| MultiFieldFormat: (...) Syntax
| ArrayFormat: Block
| ArraySeparator: "\r\n"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
54 at: J1  Start "Start"
| ObjectIndex: M.109.54
| Declared Scope: Local to Context
| ShowTitleBar: false
| ShowTerminals: false
| ShowIconTitle: true
55 at: C2  Declare Variable "Declare pCO2_start"
| ObjectIndex: M.109.55
| Variable Scope: Global
| Global Name: "pCO2_start"
| ShowTitleBar: true
| ShowIconTitle: true
56 at: D2  Declare Variable "H2O"
| ObjectIndex: M.109.56
| Variable Scope: Global
| Global Name: "H2O"
| ShowTitleBar: true
| ShowIconTitle: true
57 at: D5  Set Variable "H2O"
| ObjectIndex: M.109.57
| Declared Scope: Local to Context
| Global Name: "H2O"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
58 at: C5  Set Variable "Set pCO2_start"
| ObjectIndex: M.109.58
| Declared Scope: Local to Context
| Global Name: "pCO2_start"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
62 at: H2  Declare Variable "Xplot"
| ObjectIndex: M.109.62
| Variable Scope: Global
| Global Name: "Xplot"
| ShowTitleBar: true
| ShowIconTitle: true
63 at: H1  Declare Variable "Yplot"
| ObjectIndex: M.109.63
| Variable Scope: Global
| Global Name: "Yplot"
| ShowTitleBar: true
| ShowIconTitle: true
64 at: H3  Allocate Array "Alloc Real"
| ObjectIndex: M.109.64
| Declared Scope: Local to Context
| ShowTitleBar: true
```

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```
| ShowTerminals: true
| ShowIconTitle: true
65 at: G5 Set Variable "Xplot"
| ObjectIndex: M.109.65
| Declared Scope: Local to Context
| Global Name: "Xplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
66 at: H5 Set Variable "Yplot"
| ObjectIndex: M.109.66
| Declared Scope: Local to Context
| Global Name: "Yplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
72 at: G3 Allocate Array "Alloc Real"
| ObjectIndex: M.109.72
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
87 at: F2 Declare Variable "Declare LicorData"
| ObjectIndex: M.109.87
| Variable Scope: Global
| Global Name: "LicorData"
| ShowTitleBar: true
| ShowIconTitle: true
88 at: E5 Set Variable "LicorData"
| ObjectIndex: M.109.88
| Declared Scope: Local to Context
| Global Name: "LicorData"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
89 at: C2 Declare Variable "Declare pCO2_integrate"
| ObjectIndex: M.109.89
| Variable Scope: Global
| Global Name: "pCO2_integrate"
| ShowTitleBar: true
| ShowIconTitle: true
90 at: C5 Set Variable "pCO2_integrate"
| ObjectIndex: M.109.90
| Declared Scope: Local to Context
| Global Name: "pCO2_integrate"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
91 at: D2 Declare Variable "Declare pCO2_max"
| ObjectIndex: M.109.91
| Variable Scope: Global
| Global Name: "pCO2_max"
| ShowTitleBar: true
| ShowIconTitle: true
92 at: C5 Set Variable "pCO2_max"
| ObjectIndex: M.109.92
| Declared Scope: Local to Context
| Global Name: "pCO2_max"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
93 at: E3 Text Constant "Text"
| ObjectIndex: M.109.93
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
95 at: F2 Declare Variable "Declare SampleType"
| ObjectIndex: M.109.95
| Variable Scope: Global
| Global Name: "SampleType"
```

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```
| ShowTitleBar: true
| ShowIconTitle: true
96 at: F2  Declare Variable "Declare Repeat"
| ObjectIndex: M.109.96
| Variable Scope: Global
| Global Name: "Repeat"
| ShowTitleBar: true
| ShowIconTitle: true
97 at: F5  Set Variable "SampleType"
| ObjectIndex: M.109.97
| Declared Scope: Local to Context
| Global Name: "SampleType"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
98 at: F5  Set Variable "Repeat"
| ObjectIndex: M.109.98
| Declared Scope: Local to Context
| Global Name: "Repeat"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
99 at: F3  Constant "Int16"
| ObjectIndex: M.109.99
| Declared Scope: Local to Context
| InitialValue: 0
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
100 at: F3  Constant "Int16"
| ObjectIndex: M.109.100
| Declared Scope: Local to Context
| InitialValue: 0
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
101 at: G2  Declare Variable "Declare SequenceTime"
| ObjectIndex: M.109.101
| Variable Scope: Global
| Global Name: "SequenceTime"
| ShowTitleBar: true
| ShowIconTitle: true
102 at: F5  Set Variable "SequenceTime"
| ObjectIndex: M.109.102
| Declared Scope: Local to Context
| Global Name: "SequenceTime"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
103 at: B4  Text Constant "Text"
| ObjectIndex: M.109.103
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
104 at: B5  Set Variable "DataFile"
| ObjectIndex: M.109.104
| Declared Scope: Local to Context
| Global Name: "DataFile"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
106 at: H2  Declare Variable "Declare ComError"
| ObjectIndex: M.109.106
| Variable Scope: Global
```

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```
| Global Name: "ComError"
| ShowTitleBar: true
| ShowIconTitle: true
108 at: I5 Set Variable "ComError"
| ObjectIndex: M.109.108
| Declared Scope: Local to Context
| Global Name: "ComError"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
109 at: G2 Declare Variable "Declare SyringeCom"
| ObjectIndex: M.109.109
| Variable Scope: Global
| Global Name: "SyringeCom"
| ShowTitleBar: true
| ShowIconTitle: true
110 at: G5 Set Variable "SyringeCom"
| ObjectIndex: M.109.110
| Declared Scope: Local to Context
| Global Name: "SyringeCom"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
111 at: G4 Text Constant "Text"
| ObjectIndex: M.109.111
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
112 at: I4 Constant "Int16"
| ObjectIndex: M.109.112
| Declared Scope: Local to Context
| InitialValue: 0
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
113 at: I2 Declare Variable "Declare ErrorLog"
| ObjectIndex: M.109.113
| Variable Scope: Global
| Global Name: "ErrorLog"
| ShowTitleBar: true
| ShowIconTitle: true
114 at: I5 Set Variable "ErrorLog"
| ObjectIndex: M.109.114
| Declared Scope: Local to Context
| Global Name: "ErrorLog"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
115 at: I4 Text Constant "Text"
| ObjectIndex: M.109.115
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
118 at: S8 Get Variable "DataFile"
| ObjectIndex: M.109.118
| Declared Scope: Local to Context
| Global Name: "DataFile"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
119 at: I2 Declare Variable "Declare TCO2Error"
| ObjectIndex: M.109.119
| Variable Scope: Global
| Global Name: "TCO2Error"
```


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```
| Global Name: "TCO2Error"
| ShowTitleBar: true
| ShowIconTitle: true
120 at: I5 Set Variable "TCO2Error"
| ObjectIndex: M.109.120
| Declared Scope: Local to Context
| Global Name: "TCO2Error"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
121 at: I4 Constant "Int16"
| ObjectIndex: M.109.121
| Declared Scope: Local to Context
| InitialValue: 0
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
122 at: D2 Declare Variable "Declare PeakAvg"
| ObjectIndex: M.109.122
| Variable Scope: Global
| Global Name: "PeakAvg"
| ShowTitleBar: true
| ShowIconTitle: true
123 at: C5 Set Variable "PeakAvg"
| ObjectIndex: M.109.123
| Declared Scope: Local to Context
| Global Name: "PeakAvg"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
124 at: E2 Declare Variable "Declare PeakRead"
| ObjectIndex: M.109.124
| Variable Scope: Global
| Global Name: "PeakRead"
| ShowTitleBar: true
| ShowIconTitle: true
125 at: F5 Set Variable "PeakRead"
| ObjectIndex: M.109.125
| Declared Scope: Local to Context
| Global Name: "PeakRead"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
127 at: S8 AlphaNumeric "AlphaNumeric"
| ObjectIndex: M.109.127
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
133 at: P9 Logging AlphaNumeric "Logging AlphaNumeric"
| ObjectIndex: M.109.133
| Declared Scope: Local to Context
| Buffer Size: 256
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
134 at: P2 Text Constant "Valve Type"
| ObjectIndex: M.109.134
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
136 at: E3 Allocate Array "Alloc Real"
| ObjectIndex: M.109.136
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
135 at: S2 Text Constant "Request Data"
```

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```
132 at: S2 Text Constant Request Data
- ObjectIndex: M.109.135
- Declared Scope: Local to Context
- DataShape: Scalar
- ArraySize: 10
- EnableEditing: true
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true

139 at: P6 Direct I/O "Serial10 ( @ 10)"
- ObjectIndex: M.109.139
- Declared Scope: Local to Context
- Transactions: 5 lines.
  - EXECUTE RESET
  - WRITE TEXT a STR EOL
  - WAIT INTERVAL:10
  - WRITE TEXT c STR EOL
  - READ TEXT x STR
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true

140 at: R6 Direct I/O "serial11 ( @ 11)"
- ObjectIndex: M.109.140
- Declared Scope: Local to Context
- Transactions: 5 lines.
  - EXECUTE RESET
  - WRITE TEXT a STR EOL
  - READ TEXT x STR
  - WRITE TEXT b STR EOL
  - READ TEXT x STR
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true

141 at: N6 Direct I/O "Serial12 ( @ 12)"
- ObjectIndex: M.109.141
- Declared Scope: Local to Context
- Transactions: 2 lines.
  - WRITE BYTE 254
  - WRITE BYTE 8
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true

142 at: N3 Note Pad "Note Pad"
- ObjectIndex: M.109.142
- Declared Scope: Local to Context
- Note Contents: Open dump
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true

144 at: S6 Delay "Delay"
- ObjectIndex: M.109.144
- Declared Scope: Local to Context
- Delay: 5
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true

145 at: T3 Note Pad "Note Pad"
- ObjectIndex: M.109.145
- Declared Scope: Local to Context
- Note Contents: Close dump then stop gas flow
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true

146 at: F2 Declare Variable "Declare Valve_Position"
- ObjectIndex: M.109.146
- Variable Scope: Global
- Global Name: "Valve_Position"
- ShowTitleBar: true
- ShowIconTitle: true

147 at: G5 Set Variable "Set Valve_Position"
- ObjectIndex: M.109.147
- Declared Scope: Local to Context
- Global Name: "Valve_Position"
- ShowTitleBar: true
- ShowTerminals: true
```

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  ShowIconTitle: true
148 at: G2  Declare Variable "Declare CurrentRepeat"
  ObjectIndex: M.109.148
  Variable Scope: Global
  Global Name: "CurrentRepeat"
  ShowTitleBar: true
  ShowIconTitle: true
149 at: G5  Set Variable "Set CurrentRepeat"
  ObjectIndex: M.109.149
  Declared Scope: Local to Context
  Global Name: "CurrentRepeat"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
150 at: U6  Call "Call Stop_Flow"
  ObjectIndex: M.109.150
  Declared Scope: Local to Context
  Function name: "Stop_Flow"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
151 at: T6  Delay "Delay"
  ObjectIndex: M.109.151
  Declared Scope: Local to Context
  Delay: 1
  ShowTitleBar: true
  ShowTerminals: false
  ShowIconTitle: true
152 at: T6  Call "Call Close_Dump"
  ObjectIndex: M.109.152
  Declared Scope: Local to Context
  Function name: "Close_Dump"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
```


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Main: Initialize: Object Views

(M.109.2)

SampleID object view showing Name: SampleID, Scope: Global, Type: Text, and Num Dims: 0.

(M.109.3)

SampleID object view showing Name: SampleID, Scope: Global, Type: Text, and Num Dims: 0.

(M.109.4)

Kloehn Init. object view showing a text field with the value /1W4R.

Description:

Valve 2 to port 2

(M.109.6)

Empty Syringe object view showing a text field with the value /1o1a0R.

Description:

Valve 1 to Port 2

(M.109.9)

CO2Pres object view showing Name: CO2Pres, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.10)

CO2Pres object view showing Name: CO2Pres, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.11)

SampleCount object view showing Name: SampleCount, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.12)

SampleCount object view showing Name: SampleCount, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.13)

Real object view showing a text field with the value 0.

(M.109.14)

CO2Temp object view showing Name: CO2Temp, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.15)

pCO2 object view showing Name: pCO2, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.16)

CO2Temp object view showing Name: CO2Temp, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.17)

pCO2 object view showing Name: pCO2, Scope: Global, Type: Real64, and Num Dims: 0.

(M.109.18)

DataFile object view showing Name: DataFile, Scope: Global, Type: Text, and Num Dims: 0.

(M.109.19)

Set Variable object view showing Name: DataFile, Scope: Global, Type: Text, and Num Dims: 0.

(M.109.20)

File Name Selection dialog box showing Prompt/Label: Enter File Name:, Initial Directory: C:\TCO2\, Initial File/Wildcard: 01-14-2009.DIC, and Select File For: Writing.

(M.109.21)

To String object view showing a list of text strings: WRITE TEXT a INT32:2, WRITE TEXT "-.", WRITE TEXT b INT32:2, and WRITE TEXT "-."

Transaction Name: To String, Transaction Number: 1

I/O Transaction dialog box showing WRITE TEXT a INT32:2, MIN NUM DIGITS: 2, and EOL OFF.

Transaction Name: To String, Transaction Number: 2

I/O Transaction

WRITE

TEXT

""

DEFAULT FORMAT

EOL OFF

Transaction Name: To String, Transaction Number: 3

I/O Transaction

WRITE

TEXT

b

INT32 FORMAT

DEFAULT FIELD WIDTH

/-

MIN NUM DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 4

I/O Transaction

WRITE

TEXT

""

DEFAULT FORMAT

EOL OFF

Transaction Name: To String, Transaction Number: 5

I/O Transaction

WRITE

TEXT

c

INT32 FORMAT

DEFAULT FIELD WIDTH

/-

MIN NUM DIGITS: 4

EOL OFF

Transaction Name: To String, Transaction Number: 6

I/O Transaction

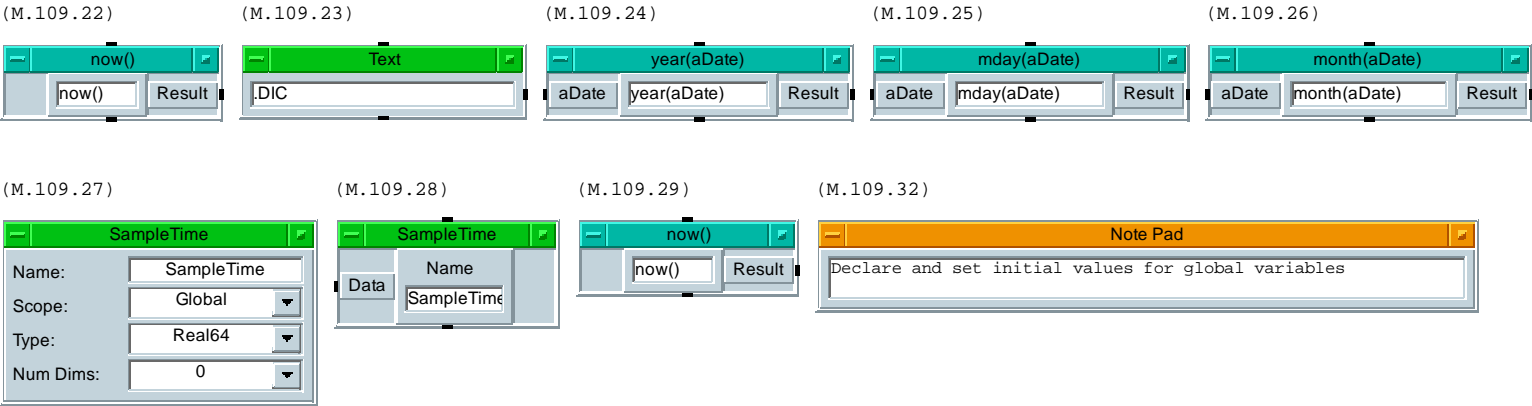
WRITE

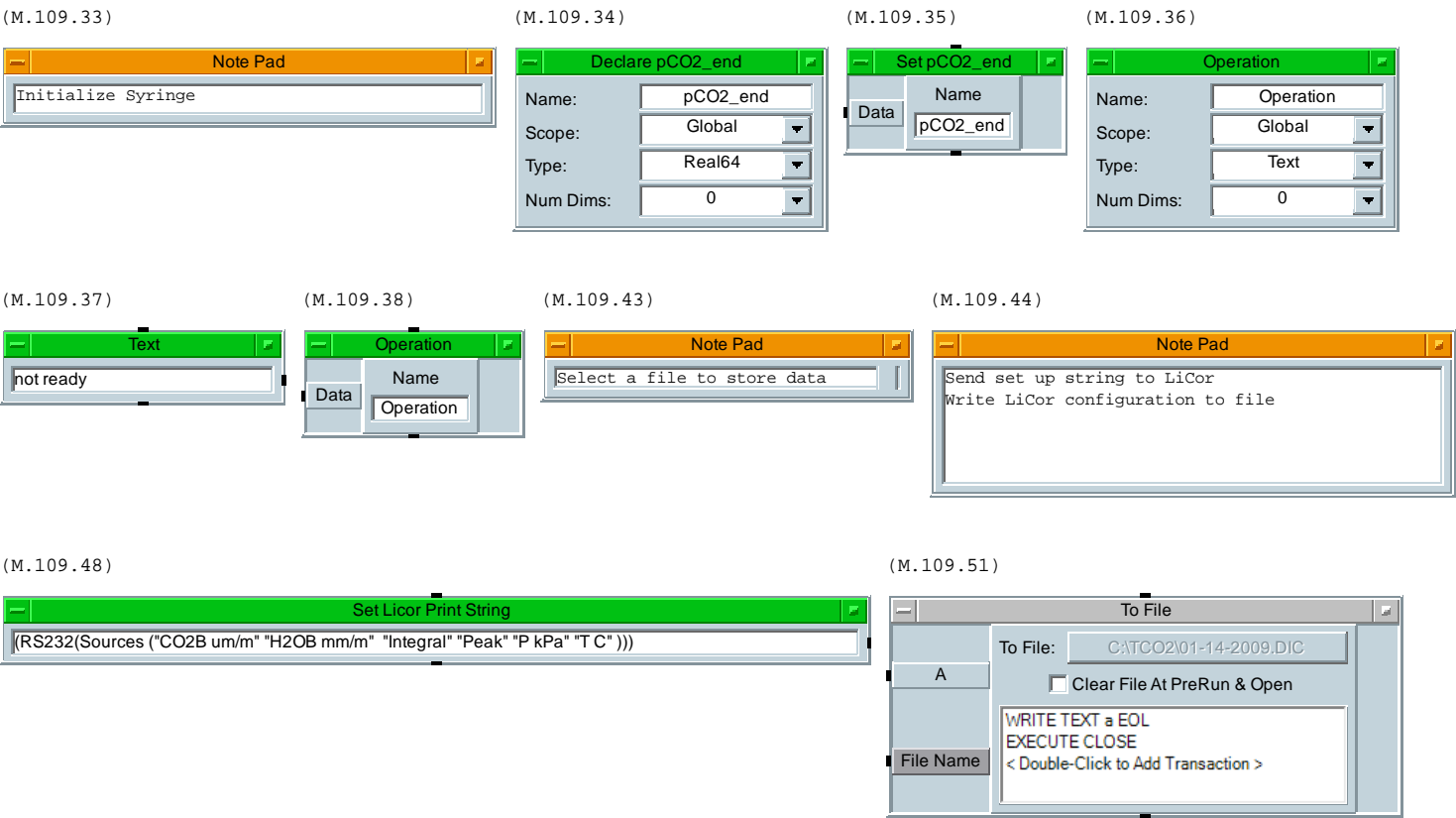
TEXT

d

DEFAULT FORMAT

EOL ON



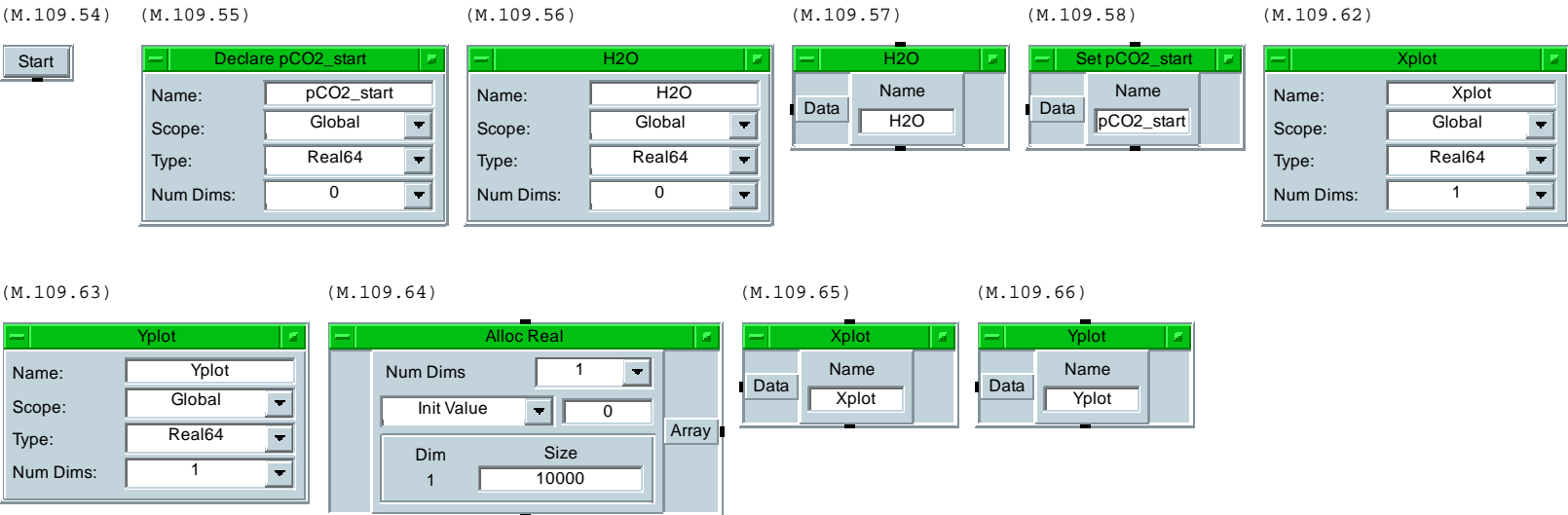


Transaction Name: To File, Transaction Number: 1

I/O Transaction		
WRITE	TEXT	a
DEFAULT FORMAT	EOL ON	

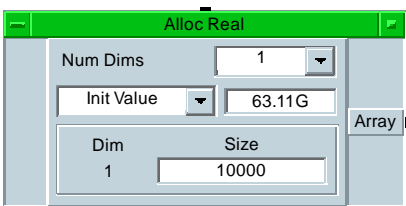
Transaction Name: To File, Transaction Number: 2

I/O Transaction	
EXECUTE	CLOSE



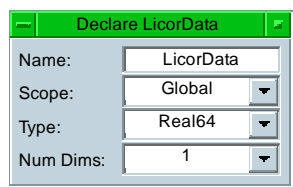
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(M.109.72)



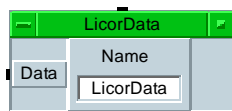
Alloc Real dialog box. Num Dims: 1. Init Value: 63.11G. Dim 1: 10000. Array checkbox is checked.

(M.109.87)



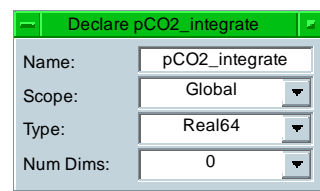
Declare LicorData dialog box. Name: LicorData. Scope: Global. Type: Real64. Num Dims: 1.

(M.109.88)



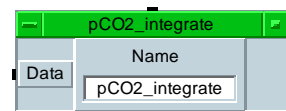
LicorData data box. Name: LicorData.

(M.109.89)



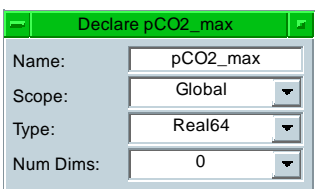
Declare pCO2_integrate dialog box. Name: pCO2_integrate. Scope: Global. Type: Real64. Num Dims: 0.

(M.109.90)



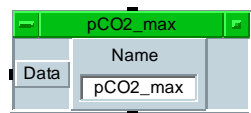
pCO2_integrate data box. Name: pCO2_integrate.

(M.109.91)



Declare pCO2_max dialog box. Name: pCO2_max. Scope: Global. Type: Real64. Num Dims: 0.

(M.109.92)



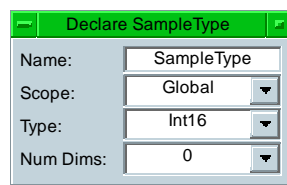
pCO2_max data box. Name: pCO2_max.

(M.109.93)



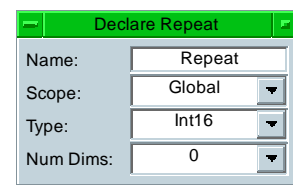
Text dialog box. Text: Test.

(M.109.95)



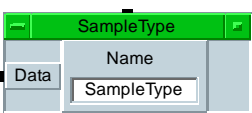
Declare SampleType dialog box. Name: SampleType. Scope: Global. Type: Int16. Num Dims: 0.

(M.109.96)



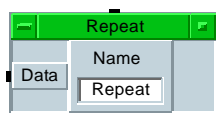
Declare Repeat dialog box. Name: Repeat. Scope: Global. Type: Int16. Num Dims: 0.

(M.109.97)



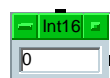
SampleType data box. Name: SampleType.

(M.109.98)




Repeat data box. Name: Repeat.

(M.109.99)



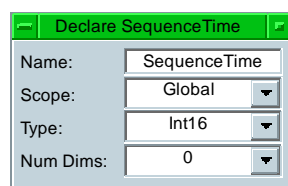
Int16 dialog box. Value: 0.

(M.109.100)



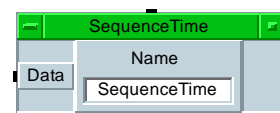
Int16 dialog box. Value: 1.

(M.109.101)



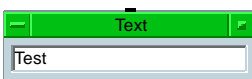
Declare SequenceTime dialog box. Name: SequenceTime. Scope: Global. Type: Int16. Num Dims: 0.

(M.109.102)



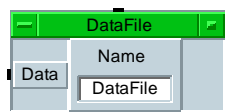
SequenceTime data box. Name: SequenceTime.

(M.109.103)



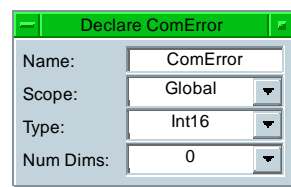
Text dialog box. Text: Test.

(M.109.104)



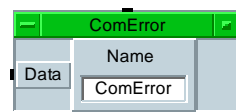
DataFile data box. Name: DataFile.

(M.109.106)



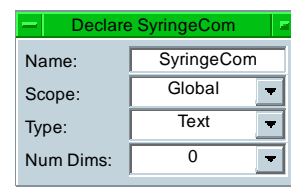
Declare ComError dialog box. Name: ComError. Scope: Global. Type: Int16. Num Dims: 0.

(M.109.108)



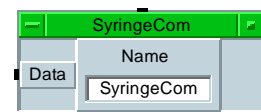
ComError data box. Name: ComError.

(M.109.109)



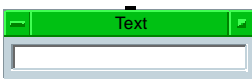
Declare SyringeCom dialog box. Name: SyringeCom. Scope: Global. Type: Text. Num Dims: 0.

(M.109.110)



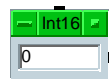
SyringeCom data box. Name: SyringeCom.

(M.109.111)



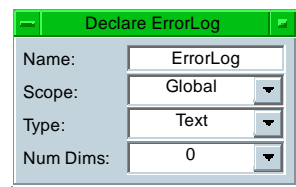
Text dialog box. Text: .

(M.109.112)



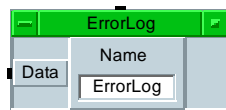
Int16 dialog box. Value: 0.

(M.109.113)



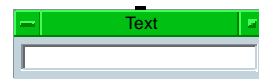
Declare ErrorLog dialog box. Name: ErrorLog. Scope: Global. Type: Text. Num Dims: 0.

(M.109.114)



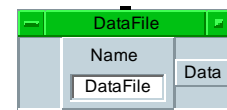
ErrorLog data box. Name: ErrorLog.

(M.109.115)



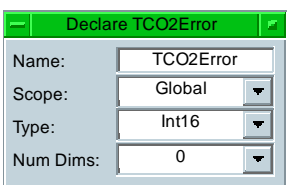
Text dialog box. Text: .

(M.109.118)



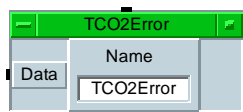
DataFile data box. Name: DataFile.

(M.109.119)



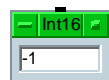
Declare TCO2Error dialog box. Name: TCO2Error. Scope: Global. Type: Int16. Num Dims: 0.

(M.109.120)



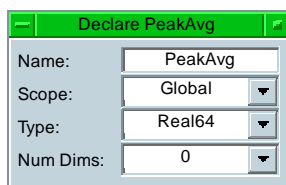
TCO2Error data box. Name: TCO2Error.

(M.109.121)



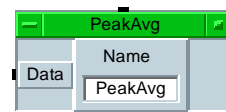
Int16 dialog box. Value: -1.

(M.109.122)



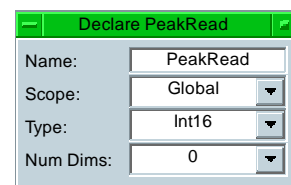
Declare PeakAvg dialog box. Name: PeakAvg. Scope: Global. Type: Real64. Num Dims: 0.

(M.109.123)



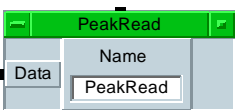
PeakAvg data box. Name: PeakAvg.

(M.109.124)



Declare PeakRead dialog box. Name: PeakRead. Scope: Global. Type: Int16. Num Dims: 0.

(M.109.125)



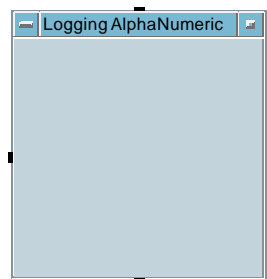
PeakRead data box. Name: PeakRead.

(M.109.127)




AlphaNumeric data box. Name: .

(M.109.133)



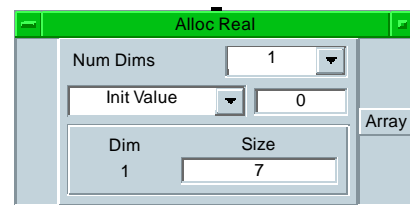
Logging AlphaNumeric data box. Name: .

(M.109.134)



Valve Type data box. Name: /1~V10R.

(M.109.136)



Alloc Real dialog box. Num Dims: 1. Init Value: 0. Dim 1: 7. Array checkbox is checked.

(M.109.135)

(M.109.139)

Request Data

(RS232(Poll Now))

Serial10 (@ 10)

A

B

C

EXECUTE RESET
WRITE TEXT a STR EOL
WAIT INTERVAL:10
WRITE TEXT c STR EOL
READ TEXT x STR
< Double-Click to Add Transaction >

X

Transaction Name: Serial10 (@ 10), Transaction Number: 1

I/O Transaction

EXECUTE RESET

Transaction Name: Serial10 (@ 10), Transaction Number: 2

I/O Transaction

WRITE TEXT a

STRING FORMAT DEFAULT FIELD WIDTH

ALL CHARS EOL ON

Transaction Name: Serial10 (@ 10), Transaction Number: 3

I/O Transaction

WAIT FOR INTERVAL(sec): 10

Transaction Name: Serial10 (@ 10), Transaction Number: 4

I/O Transaction

WRITE TEXT c

STRING FORMAT DEFAULT FIELD WIDTH

ALL CHARS EOL ON

Transaction Name: Serial10 (@ 10), Transaction Number: 5

I/O Transaction

READ TEXT x

STRING FORMAT DEFAULT NUM CHARS

SCALAR

(M.109.140)

serial11 (@ 11)

A

B

EXECUTE RESET
WRITE TEXT a STR EOL
READ TEXT x STR
WRITE TEXT b STR FOI

X

Error

Transaction Name: serial11 (@ 11), Transaction Number: 1

I/O Transaction

EXECUTE RESET

Transaction Name: serial11 (@ 11), Transaction Number: 2

I/O Transaction

WRITE TEXT a

STRING FORMAT DEFAULT FIELD WIDTH

ALL CHARS EOL ON

Transaction Name: serial11 (@ 11), Transaction Number: 3

I/O Transaction

READ TEXT x

STRING FORMAT DEFAULT NUM CHARS

SCALAR

Transaction Name: serial11 (@ 11), Transaction Number: 4

I/O Transaction

WRITE TEXT b

STRING FORMAT DEFAULT FIELD WIDTH

ALL CHARS EOL ON

Transaction Name: serial11 (@ 11), Transaction Number: 5

I/O Transaction

READ TEXT x

STRING FORMAT DEFAULT NUM CHARS

SCALAR

(M.109.141)

Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 8
< Double-Click to Add Transaction >

Transaction Name: Serial12 (@ 12), Transaction Number: 1

I/O Transaction

WRITE BYTE 254

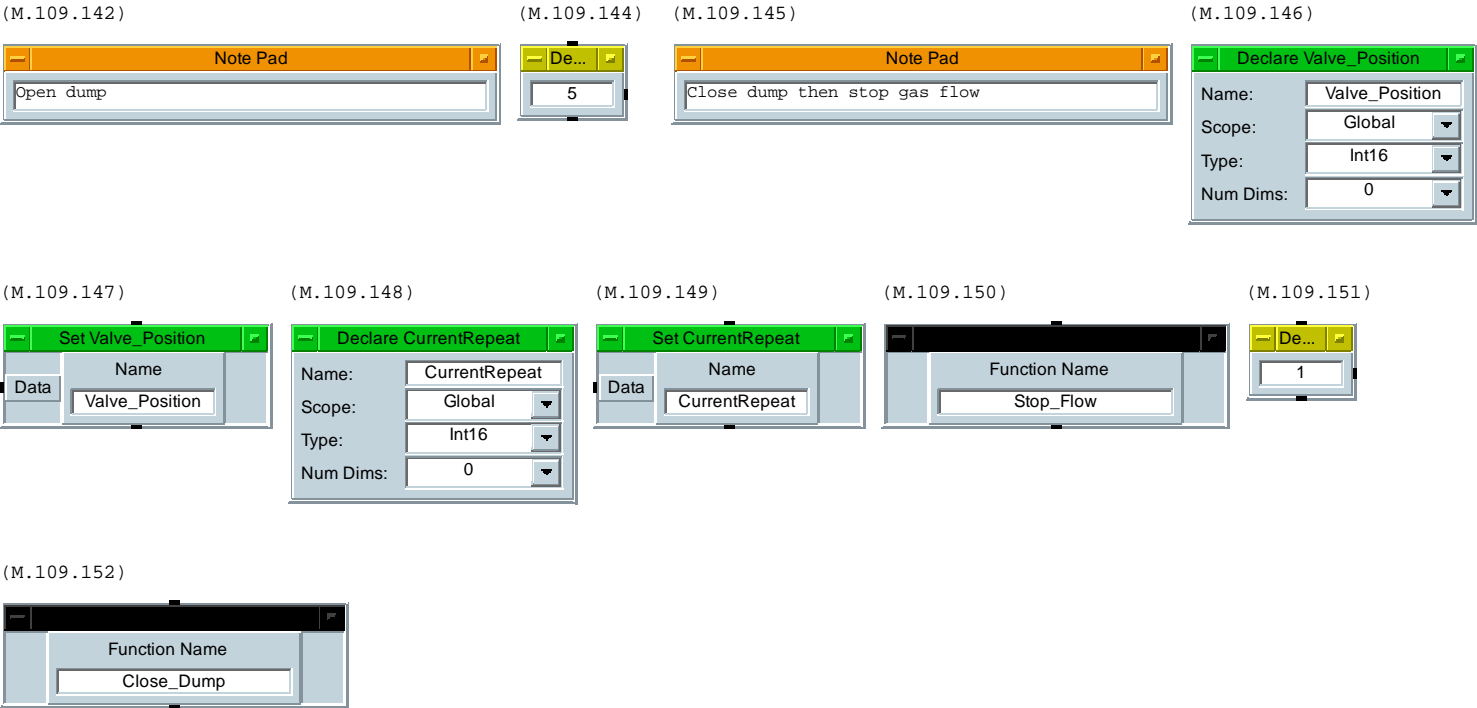
Transaction Name: Serial12 (@ 12), Transaction Number: 2

I/O Transaction

WRITE

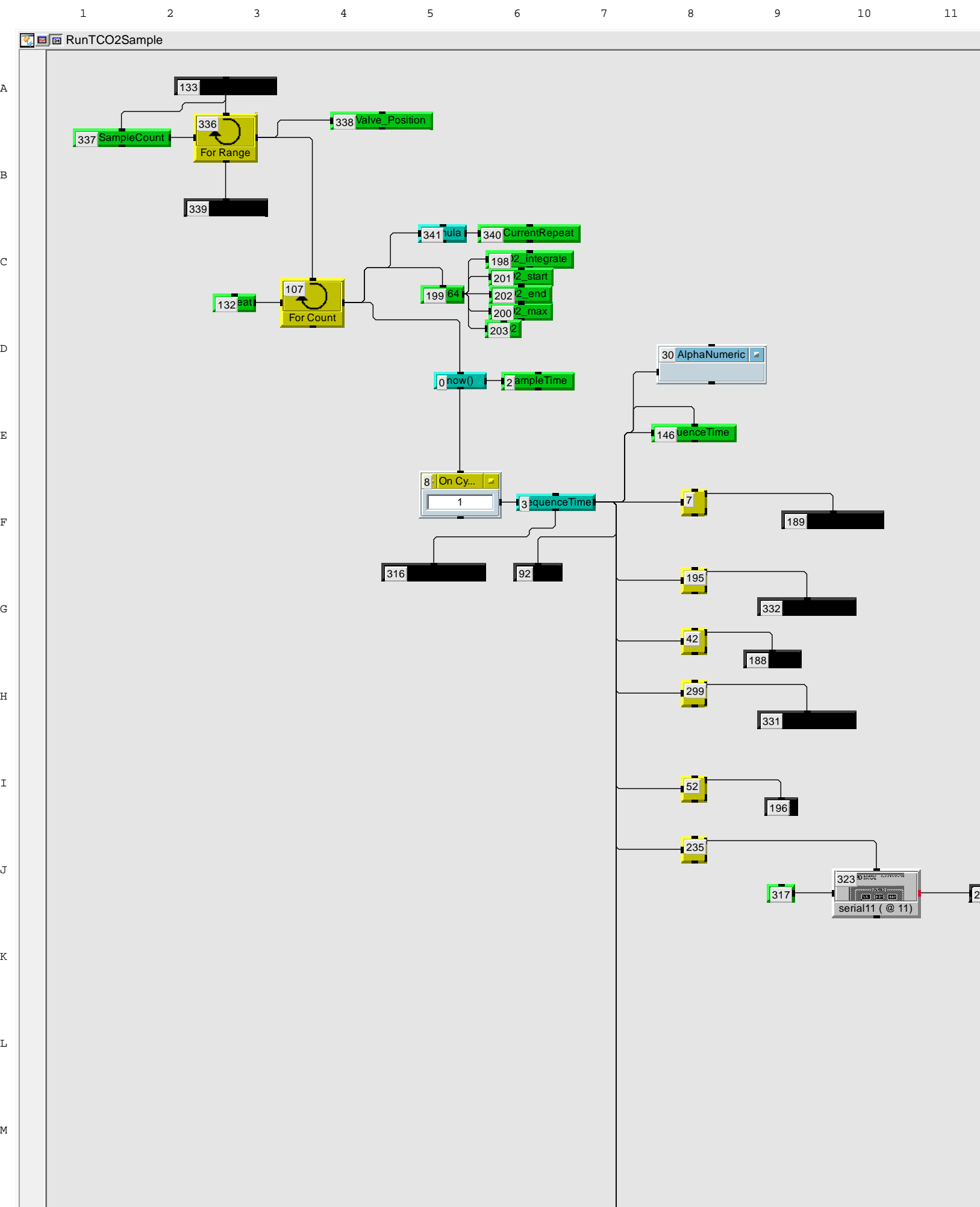
BYTE

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Main: RunTCO2Sample (M.215): Detail View, Total Objects: 50



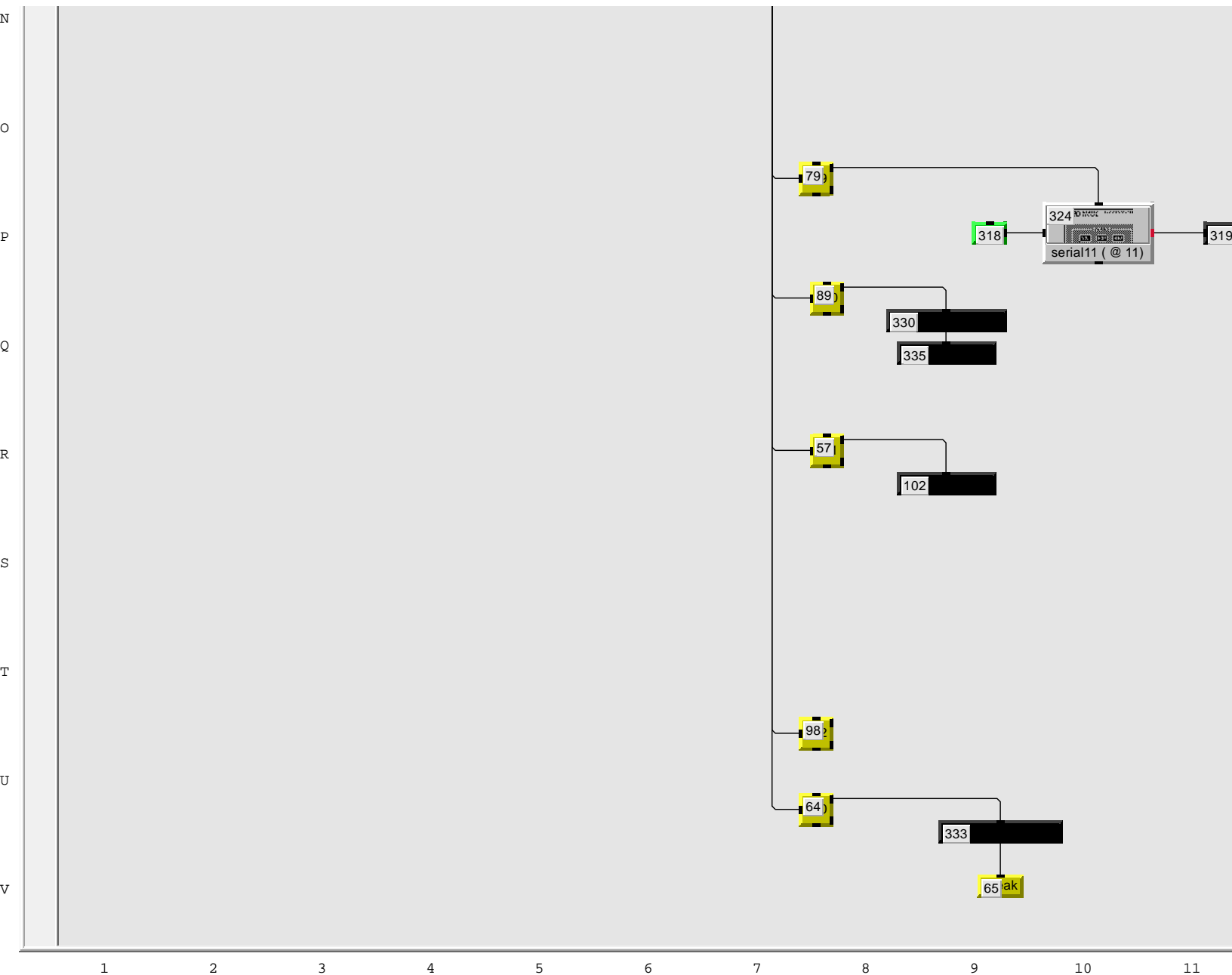
12

13

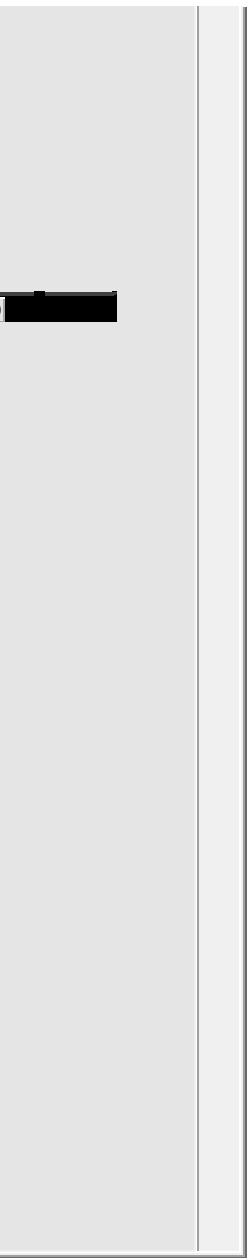


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```
UserObject "RunTCO2Sample"
- 0 at: D5 Formula "now()"
  - ObjectIndex: M.215.0
  - Declared Scope: Local to Context
  - Formula: now()
  - ShowTitleBar: true
  - ShowTerminals: true
  - ShowIconTitle: true
- 2 at: D6 Set Variable "SampleTime"
  - ObjectIndex: M.215.2
  - Declared Scope: Local to Context
  - Global Name: "SampleTime"
  - ShowTitleBar: true
  - ShowTerminals: true
  - ShowIconTitle: true
- 3 at: F6 Formula "SequenceTime"
  - ObjectIndex: M.215.3
  - Declared Scope: Local to Context
  - Formula: 3 lines.
    - intPart(A-SampleTime)
    -
    -
  - ShowTitleBar: true
  - ShowTerminals: true
  - ShowIconTitle: true
- 7 at: F8 If/Then/Else "1"
  - ObjectIndex: M.215.7
```



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```
ObjectIndex: M.215.7
- Declared Scope: Local to Context
- If/Else cases: a==1
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
8 at: F5 On Cycle "On Cycle"
- ObjectIndex: M.215.8
- Declared Scope: Local to Context
- Cycle Time: 1
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
30 at: D8 AlphaNumeric "AlphaNumeric" is added to panel
- ObjectIndex: M.215.30
- Declared Scope: Local to Context
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
42 at: G8 If/Then/Else "26"
- ObjectIndex: M.215.42
- Declared Scope: Local to Context
- If/Else cases: a==26
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
52 at: I8 If/Then/Else "74"
- ObjectIndex: M.215.52
- Declared Scope: Local to Context
- If/Else cases: a==74
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
57 at: R8 If/Then/Else "161"
- ObjectIndex: M.215.57
- Declared Scope: Local to Context
- If/Else cases: a==161
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
64 at: U7 If/Then/Else "170"
- ObjectIndex: M.215.64
- Declared Scope: Local to Context
- If/Else cases: a>=170
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
65 at: V9 Break "Break"
- ObjectIndex: M.215.65
- Declared Scope: Local to Context
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
79 at: O7 If/Then/Else "159"
- ObjectIndex: M.215.79
- Declared Scope: Local to Context
- If/Else cases: a==159
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
89 at: P8 If/Then/Else "160"
- ObjectIndex: M.215.89
- Declared Scope: Local to Context
- If/Else cases: a==160
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
92 at: F6 Call "Call Plot"
- ObjectIndex: M.215.92
- Declared Scope: Local to Context
- Function name: "Plot"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
98 at: T7 If/Then/Else "162"
```


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```
ObjectIndex: M.215.98
Declared Scope: Local to Context
If/Else cases: a==162
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
102 at: R9 Call "Call SaveData"
ObjectIndex: M.215.102
Declared Scope: Local to Context
Function name: "SaveData"
ShowTitleBar: false
ShowTerminals: true
ShowIconTitle: true
107 at: C4 For Count "For Count"
ObjectIndex: M.215.107
Declared Scope: Local to Context
Count: 2
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
132 at: C3 Get Variable "Repeat"
ObjectIndex: M.215.132
Declared Scope: Local to Context
Global Name: "Repeat"
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
133 at: A3 Call "Call SampleSetUp"
ObjectIndex: M.215.133
Declared Scope: Local to Context
Function name: "SampleSetUp"
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
146 at: E8 Set Variable "SequenceTime"
ObjectIndex: M.215.146
Declared Scope: Local to Context
Global Name: "SequenceTime"
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
188 at: G9 UserObject "PumpAcid"
189 at: F10 UserObject "Rinse_GetSample"
195 at: G8 If/Then/Else "24"
ObjectIndex: M.215.195
Declared Scope: Local to Context
If/Else cases: a==24
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
196 at: I9 UserObject "Inject"
198 at: C6 Set Variable "pCO2_integrate"
ObjectIndex: M.215.198
Declared Scope: Local to Context
Global Name: "pCO2_integrate"
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
199 at: C5 Constant "Real64"
ObjectIndex: M.215.199
Declared Scope: Local to Context
InitialValue: 0
DetentSize: 1
DataShape: Scalar
ArraySize: 10
EnableEditing: true
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
200 at: C6 Set Variable "pCO2_max"
ObjectIndex: M.215.200
Declared Scope: Local to Context
Global Name: "pCO2_max"
ShowTitleBar: true
```

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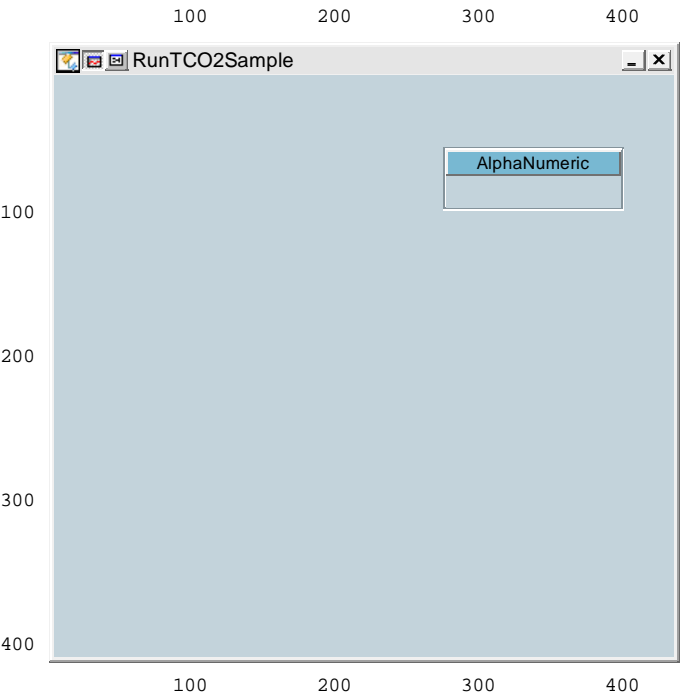
```
| ShowTerminals: true
| ShowIconTitle: true
201 at: C6 Set Variable "pCO2_start"
| ObjectIndex: M.215.201
| Declared Scope: Local to Context
| Global Name: "pCO2_start"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
202 at: C6 Set Variable "pCO2_end"
| ObjectIndex: M.215.202
| Declared Scope: Local to Context
| Global Name: "pCO2_end"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
203 at: D6 Set Variable "pCO2"
| ObjectIndex: M.215.203
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
235 at: J8 If/Then/Else "75"
| ObjectIndex: M.215.235
| Declared Scope: Local to Context
| If/Else cases: a==75
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
238 at: J12 Call "Call ErrorRecord"
| ObjectIndex: M.215.238
| Declared Scope: Local to Context
| Function name: "ErrorRecord"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
299 at: H8 If/Then/Else "60"
| ObjectIndex: M.215.299
| Declared Scope: Local to Context
| If/Else cases: a==60
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
316 at: F5 Call "Call Get_LicorData"
| ObjectIndex: M.215.316
| Declared Scope: Local to Context
| Function name: "Get_LicorData"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
317 at: J9 Text Constant "Text"
| ObjectIndex: M.215.317
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
318 at: P9 Text Constant "Text"
| ObjectIndex: M.215.318
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
319 at: P12 Call "Call ErrorRecord"
| ObjectIndex: M.215.319
| Declared Scope: Local to Context
| Function name: "ErrorRecord"
| ShowTitleBar: true
```

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```
| ShowTerminals: true
| ShowIconTitle: true
323 at: J10 Direct I/O "serial11 ( @ 11)"
| ObjectIndex: M.215.323
| Declared Scope: Local to Context
| Transactions: WRITE TEXT a STR EOL
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
324 at: P10 Direct I/O "serial11 ( @ 11)"
| ObjectIndex: M.215.324
| Declared Scope: Local to Context
| Transactions: WRITE TEXT a STR EOL
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
330 at: Q9 Call "Call Open_Dump"
| ObjectIndex: M.215.330
| Declared Scope: Local to Context
| Function name: "Open_Dump"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
331 at: H9 Call "Call Normal_Flow"
| ObjectIndex: M.215.331
| Declared Scope: Local to Context
| Function name: "Normal_Flow"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
332 at: G9 Call "Call Close_Dump"
| ObjectIndex: M.215.332
| Declared Scope: Local to Context
| Function name: "Close_Dump"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
333 at: U9 Call "Call Close_Dump"
| ObjectIndex: M.215.333
| Declared Scope: Local to Context
| Function name: "Close_Dump"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
335 at: Q9 Call "Call Full_Flow"
| ObjectIndex: M.215.335
| Declared Scope: Local to Context
| Function name: "Full_Flow"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
336 at: A3 For Range "For Range"
| ObjectIndex: M.215.336
| Declared Scope: Local to Context
| From Value: 1
| Thru Value: 2
| Step Value: 1
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
337 at: A1 Get Variable "Get SampleCount"
| ObjectIndex: M.215.337
| Declared Scope: Local to Context
| Global Name: "SampleCount"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
338 at: A4 Set Variable "Set Valve_Position"
| ObjectIndex: M.215.338
| Declared Scope: Local to Context
| Global Name: "Valve_Position"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
```

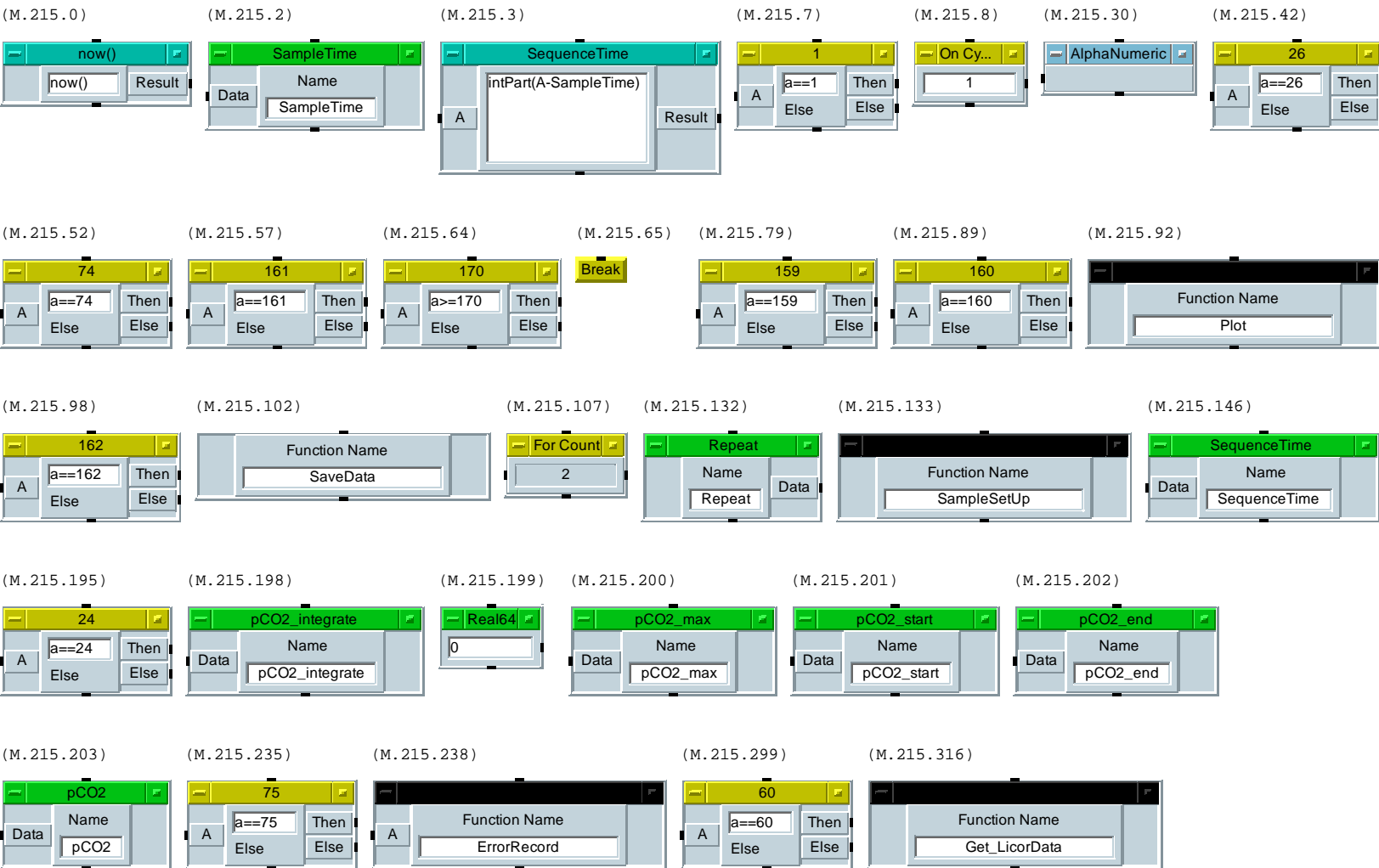
```
- 339 at: B3  Call "Call Stop_Flow"
  | ObjectIndex: M.215.339
  | Declared Scope: Local to Context
  | Function name: "Stop_Flow"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 340 at: C6  Set Variable "Set CurrentRepeat"
  | ObjectIndex: M.215.340
  | Declared Scope: Local to Context
  | Global Name: "CurrentRepeat"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 341 at: C5  Formula "Formula"
  | ObjectIndex: M.215.341
  | Declared Scope: Local to Context
  | Formula: A+1
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
```

Main: RunTCO2Sample: Panel View



PanelView "RunTCO2Sample" (w=430, h=404)
└ 30: AlphaNumeric "AlphaNumeric" (x=270, y=50) (w=125, h=44)

Main: RunTCO2Sample: Object Views



(M. 215.317)

(M. 215.318)

(M. 215.319)

(M. 215.323)

Transaction Name: serial11 (@ 11), Transaction Number: 1

I/O Transaction

WRITE

TEXT

a

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL ON

(M. 215.324)

Transaction Name: serial11 (@ 11), Transaction Number: 1

I/O Transaction

WRITE

TEXT

a

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL ON

(M. 215.330)

(M. 215.331)

(M. 215.332)

(M. 215.333)

(M. 215.335)

(M. 215.336)

(M. 215.337)

(M. 215.338)

(M. 215.339)

(M. 215.340)

(M. 215.341)

Main: RunTCO2Sample: PumpAcid (M.215.188): Detail View, Total Objects: 3

1234

PumpAcid

26

For Count

22

Serial12 (@ 12)

27

Note Pad

Give on shot of ac:

1234

UserObject "PumpAcid"

22 at: B2 Direct I/O "Serial12 (@ 12)"

ObjectIndex: M.215.188.22

Declared Scope: Local to Context

Transactions: 8 lines.

WRITE BYTE 254

WRITE BYTE 9

WAIT INTERVAL:.5

EXECUTE RESET

WRITE BYTE 254

WRITE BYTE 1

WAIT INTERVAL:.5

EXECUTE RESET

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

26 at: A1 For Count "For Count"

ObjectIndex: M.215.188.26

Declared Scope: Local to Context

Count: 2

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

27 at: B3 Note Pad "Note Pad"

ObjectIndex: M.215.188.27

Declared Scope: Local to Context

Note Contents: Give on shot of acid

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

Main: RunTCO2Sample: PumpAcid: Object Views

(M.215.188.22)

Serial12 (@ 12)

WRITE BYTE 254

WRITE BYTE 9

WAIT INTERVAL:.5

EXECUTE RESET

WRITE BYTE 254

WRITE BYTE 1

WAIT INTERVAL:.5

EXECUTE RESET

< Double-Click to Add Transaction >

Transaction Name: Serial12 (@ 12), Transaction Number: 1

I/O Transaction

WRITE

BYTE

254

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Transaction Name: Serial12 (@ 12), Transaction Number: 2

I/O Transaction		
WRITE ▾	BYTE ▾	9

Transaction Name: Serial12 (@ 12), Transaction Number: 3

I/O Transaction	
WAIT ▾	FOR INTERVAL (sec): .5

Transaction Name: Serial12 (@ 12), Transaction Number: 4

I/O Transaction	
EXECUTE ▾	RESET ▾

Transaction Name: Serial12 (@ 12), Transaction Number: 5

I/O Transaction		
WRITE ▾	BYTE ▾	254

Transaction Name: Serial12 (@ 12), Transaction Number: 6

I/O Transaction		
WRITE ▾	BYTE ▾	1

Transaction Name: Serial12 (@ 12), Transaction Number: 7

I/O Transaction	
WAIT ▾	FOR INTERVAL (sec): .5

Transaction Name: Serial12 (@ 12), Transaction Number: 8

I/O Transaction	
EXECUTE ▼	RESET ▼

(M.215.188.26)

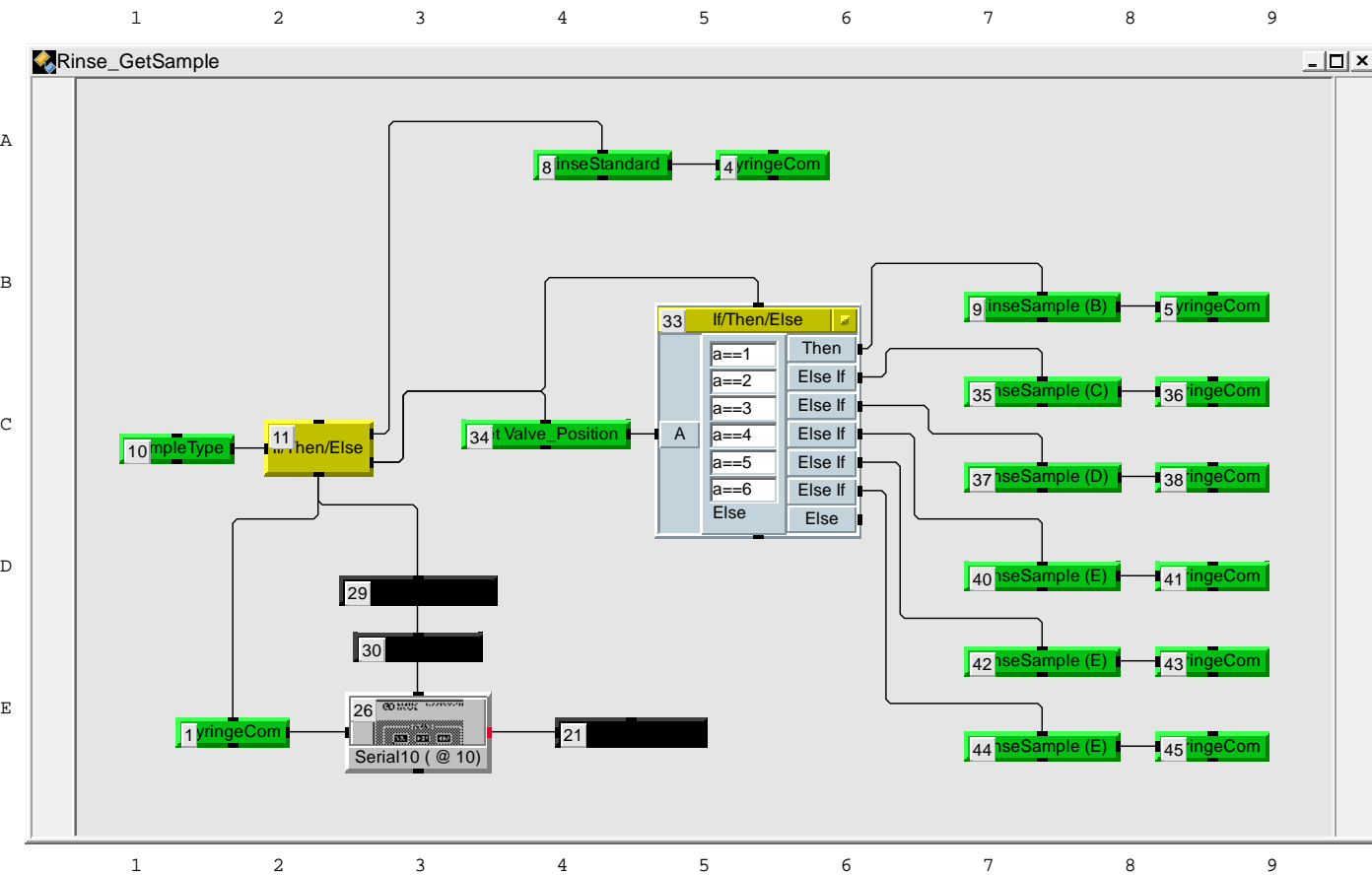
(M.215.188.27)

For Count
2

Note Pad
Give on shot of ac

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Main: RunTCO2Sample: Rinse_GetSample (M.215.189): Detail View, Total Objects: 23



UserObject "Rinse_GetSample"

```

1 at: E2 Get Variable "SyringeCom"
| ObjectIndex: M.215.189.1
| Declared Scope: Local to Context
| Global Name: "SyringeCom"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true

```

```

4 at: A5 Set Variable "SyringeCom"
| ObjectIndex: M.215.189.4
| Declared Scope: Local to Context
| Global Name: "SyringeCom"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true

```

```

5 at: B8 Set Variable "SyringeCom"
| ObjectIndex: M.215.189.5
| Declared Scope: Local to Context
| Global Name: "SyringeCom"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true

```

```

8 at: A4 Text Constant "RinseStandard"
| ObjectIndex: M.215.189.8
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true

```

```

9 at: B7 Text Constant "RinseSample (B)"
| ObjectIndex: M.215.189.9
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true

```

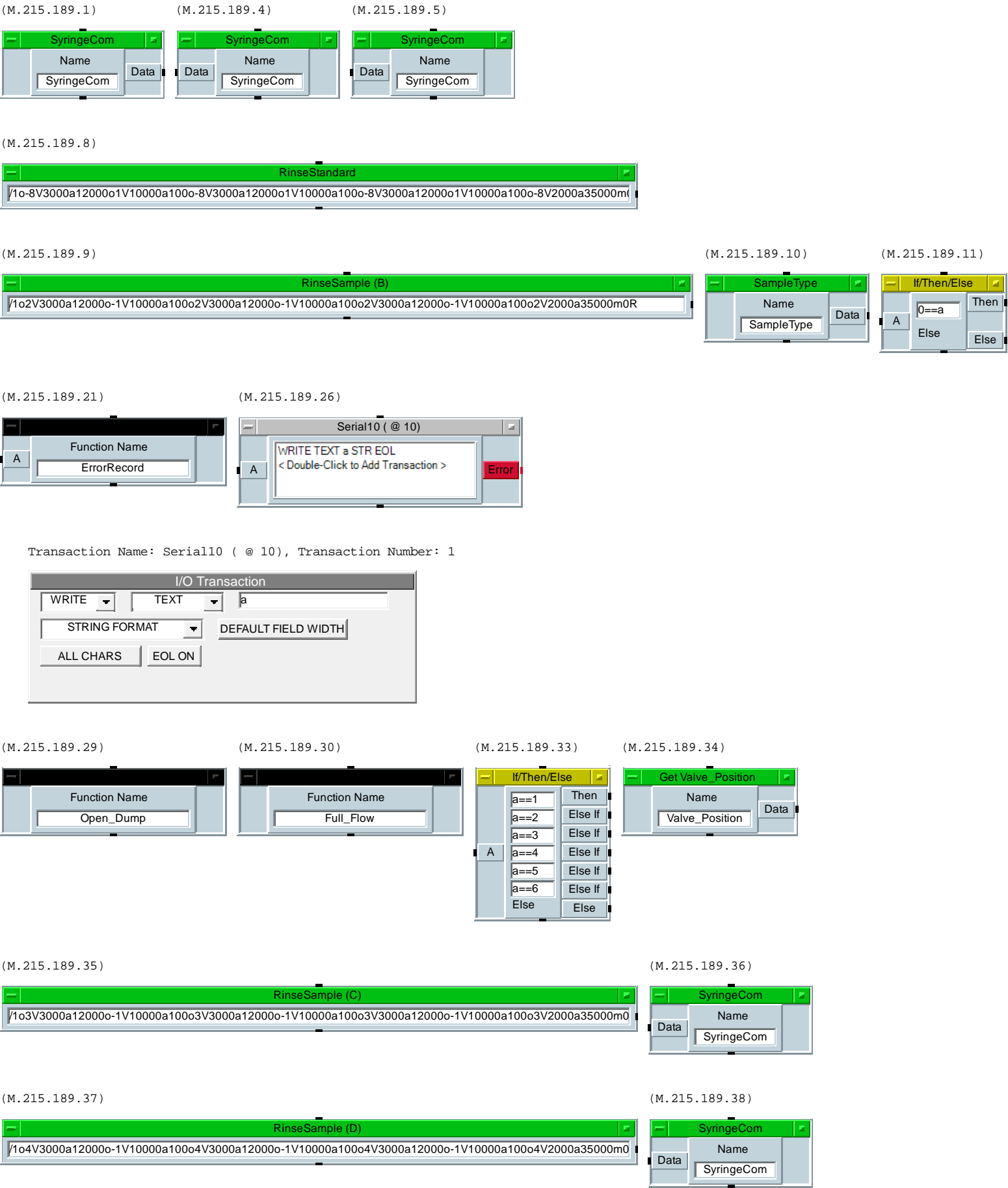
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```
- 10 at: C1  Get Variable "SampleType"
  | ObjectIndex: M.215.189.10
  | Declared Scope: Local to Context
  | Global Name: "SampleType"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 11 at: C2  If/Then/Else "If/Then/Else"
  | ObjectIndex: M.215.189.11
  | Declared Scope: Local to Context
  | If/Else cases: 0==a
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 21 at: E4  Call "Call ErrorRecord"
  | ObjectIndex: M.215.189.21
  | Declared Scope: Local to Context
  | Function name: "ErrorRecord"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 26 at: E3  Direct I/O "Serial10 ( @ 10)"
  | ObjectIndex: M.215.189.26
  | Declared Scope: Local to Context
  | Transactions: WRITE TEXT a STR EOL
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 29 at: D3  Call "Call Open_Dump"
  | ObjectIndex: M.215.189.29
  | Declared Scope: Local to Context
  | Function name: "Open_Dump"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 30 at: D3  Call "Call Full_Flow"
  | ObjectIndex: M.215.189.30
  | Declared Scope: Local to Context
  | Function name: "Full_Flow"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 33 at: C5  If/Then/Else "If/Then/Else"
  | ObjectIndex: M.215.189.33
  | Declared Scope: Local to Context
  | If/Else cases: 6 lines.
  |   | a==1
  |   | a==2
  |   | a==3
  |   | a==4
  |   | a==5
  |   | a==6
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 34 at: C4  Get Variable "Get Valve_Position"
  | ObjectIndex: M.215.189.34
  | Declared Scope: Local to Context
  | Global Name: "Valve_Position"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 35 at: C7  Text Constant "RinseSample (C)"
  | ObjectIndex: M.215.189.35
  | Declared Scope: Local to Context
  | DataShape: Scalar
  | ArraySize: 10
  | EnableEditing: true
  | ShowTitleBar: true
  | ShowTerminals: false
  | ShowIconTitle: true
- 36 at: C8  Set Variable "SyringeCom"
  | ObjectIndex: M.215.189.36
  | Declared Scope: Local to Context
```

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```
- Global Name: "SyringeCom"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
37 at: C7 Text Constant "RinseSample (D)"
- ObjectIndex: M.215.189.37
- Declared Scope: Local to Context
- DataShape: Scalar
- ArraySize: 10
- EnableEditing: true
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
38 at: C8 Set Variable "SyringeCom"
- ObjectIndex: M.215.189.38
- Declared Scope: Local to Context
- Global Name: "SyringeCom"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
40 at: D7 Text Constant "RinseSample (E)"
- ObjectIndex: M.215.189.40
- Declared Scope: Local to Context
- DataShape: Scalar
- ArraySize: 10
- EnableEditing: true
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
41 at: D8 Set Variable "SyringeCom"
- ObjectIndex: M.215.189.41
- Declared Scope: Local to Context
- Global Name: "SyringeCom"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
42 at: E7 Text Constant "RinseSample (E)"
- ObjectIndex: M.215.189.42
- Declared Scope: Local to Context
- DataShape: Scalar
- ArraySize: 10
- EnableEditing: true
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
43 at: E8 Set Variable "SyringeCom"
- ObjectIndex: M.215.189.43
- Declared Scope: Local to Context
- Global Name: "SyringeCom"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
44 at: E7 Text Constant "RinseSample (E)"
- ObjectIndex: M.215.189.44
- Declared Scope: Local to Context
- DataShape: Scalar
- ArraySize: 10
- EnableEditing: true
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
45 at: E8 Set Variable "SyringeCom"
- ObjectIndex: M.215.189.45
- Declared Scope: Local to Context
- Global Name: "SyringeCom"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
```


Main: RunTCO2Sample: Rinse_GetSample: Object Views



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(M.215.189.40)

RinseSample (E)
/1o5V3000a12000o-1V10000a100o5V3000a12000o-1V10000a100o5V3000a12000o-1V10000a100o5V2000a35000m0

(M.215.189.41)

SyringeCom
Data
Name
SyringeCom

(M.215.189.42)

RinseSample (E)
/1o6V3000a12000o-1V10000a100o6V3000a12000o-1V10000a100o6V3000a12000o-1V10000a100o6V2000a35000m0

(M.215.189.43)

SyringeCom
Data
Name
SyringeCom

(M.215.189.44)

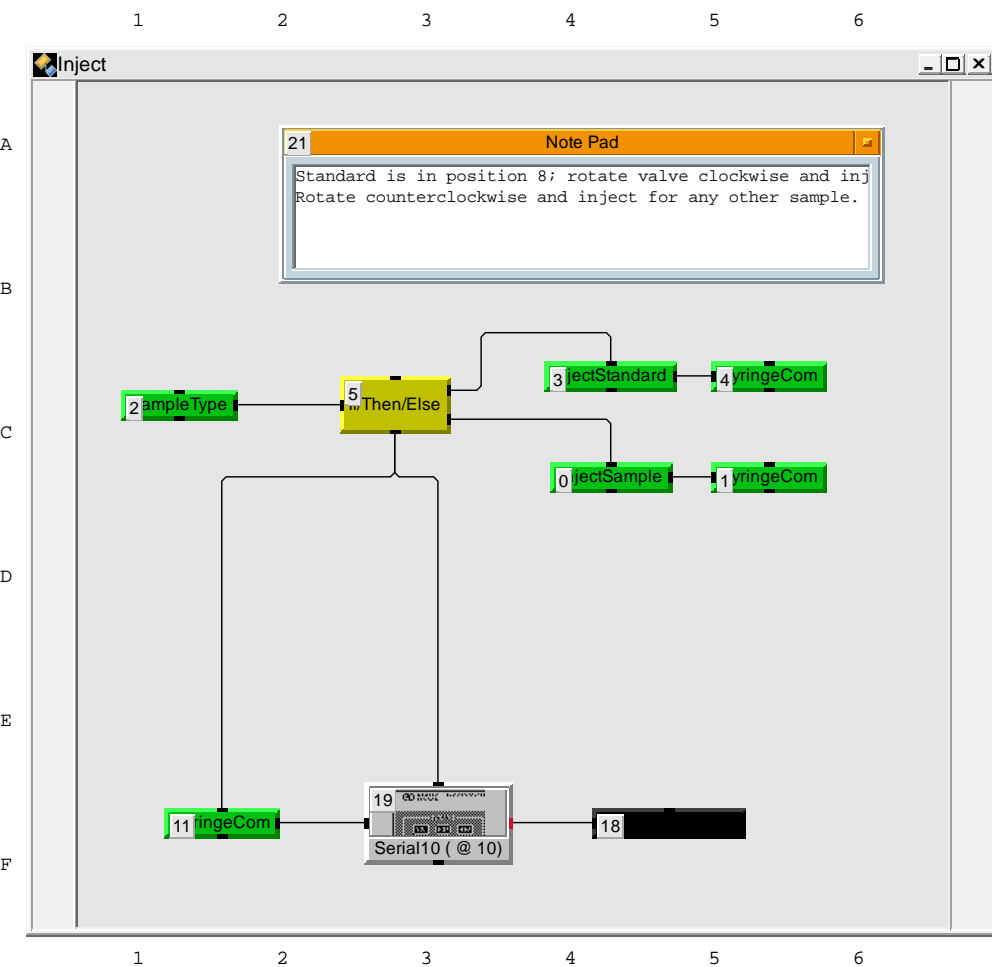
RinseSample (E)
/1o7V3000a12000o-1V10000a100o7V3000a12000o-1V10000a100o7V3000a12000o-1V10000a100o7V2000a35000m0R

(M.215.189.45)

SyringeCom
Data
Name
SyringeCom

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Main: RunTCO2Sample: Inject (M.215.196): Detail View, Total Objects: 10



UserObject "Inject"

0 at: C4 Text Constant "InjectSample"

ObjectIndex: M.215.196.0

Declared Scope: Local to Context

DataShape: Scalar

ArraySize: 10

EnableEditing: true

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

1 at: C5 Set Variable "SyringeCom"

ObjectIndex: M.215.196.1

Declared Scope: Local to Context

Global Name: "SyringeCom"

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

2 at: C1 Get Variable "SampleType"

ObjectIndex: M.215.196.2

Declared Scope: Local to Context

Global Name: "SampleType"

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

3 at: C4 Text Constant "InjectStandard"

ObjectIndex: M.215.196.3

Declared Scope: Local to Context

DataShape: Scalar

ArraySize: 10

EnableEditing: true

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

4 at: C5 Set Variable "SyringeCom"

ObjectIndex: M.215.196.4

Declared Scope: Local to Context

Global Name: "SyringeCom"

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```
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
5 at: C3  If/Then/Else "If/Then/Else"
| ObjectIndex: M.215.196.5
| Declared Scope: Local to Context
| If/Else cases: 0==a
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
11 at: F1  Get Variable "SyringeCom"
| ObjectIndex: M.215.196.11
| Declared Scope: Local to Context
| Global Name: "SyringeCom"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
19 at: F3  Direct I/O "Serial10 ( @ 10)"
| ObjectIndex: M.215.196.19
| Declared Scope: Local to Context
| Transactions: WRITE TEXT a EOL
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
18 at: F5  Call "Call ErrorRecord"
| ObjectIndex: M.215.196.18
| Declared Scope: Local to Context
| Function name: "ErrorRecord"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
21 at: A4  Note Pad "Note Pad"
| ObjectIndex: M.215.196.21
| Declared Scope: Local to Context
| Note Contents: 2 lines.
|   Standard is in position 8; rotate valve clockwise and inject.
|   Rotate counterclockwise and inject for any other sample.
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
```

Main: RunTCO2Sample: Inject: Object Views

(M.215.196.0)

InjectSample

/1o-1V1000a0m0R

(M.215.196.1)

SyringeCom

Data

Name

SyringeCom

(M.215.196.2)

SampleType

Name

SampleType

Data

(M.215.196.3)

InjectStandard

/1o-1V1000a0m0R

(M.215.196.4)

SyringeCom

Data

Name

SyringeCom

(M.215.196.5)

If/Then/Else

A

0==a

Then

Else

Else

(M.215.196.11)

SyringeCom

Name

SyringeCom

Data

(M.215.196.19)

Serial10 (@ 10)

A

WRITE TEXT a EOL

< Double-Click to Add Transaction >

Error

Transaction Name: Serial10 (@ 10), Transaction Number: 1

I/O Transaction

WRITE

TEXT

a

DEFAULT FORMAT

EOL ON

(M.215.196.18)

A

Function Name

ErrorRecord

(M.215.196.21)

Note Pad

Standard is in position 8; rotate valve clockwise and in
Rotate counterclockwise and inject for any other sample.

AcidFlush (F19): Detail View, Total Objects: 3

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

AcidFlush

7Start

19For Count10

18Serial12 (@ 12)

123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100

UserFunction "AcidFlush"

7 at: A1 Start "Start"

ObjectIndex: F19.7

Declared Scope: Local to Context

ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

18 at: C3 Direct I/O "Serial12 (@ 12)"

ObjectIndex: F19.18

Declared Scope: Local to Context

Transactions: 8 lines.

WRITE BYTE 254

WRITE BYTE 9

WAIT INTERVAL:.5

EXECUTE RESET

WRITE BYTE 254

WRITE BYTE 1

WAIT INTERVAL:.5

EXECUTE RESET

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

19 at: B1 For Count "For Count"

ObjectIndex: F19.19

Declared Scope: Local to Context

Count: 10

ShowTitleBar: true

ShowTerminals: false

ShowIconTitle: true

AcidFlush: Object Views

(F19.7) (F19.18)

Start

Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 9
WAIT INTERVAL:.5
EXECUTE RESET
WRITE BYTE 254
WRITE BYTE 1
WAIT INTERVAL:.5
EXECUTE RESET
< Double-Click to Add Transaction >

Transaction Name: Serial12 (@ 12), Transaction Number: 1

I/O Transaction

WRITE

BYTE

254

Transaction Name: Serial12 (@ 12), Transaction Number: 2

I/O Transaction		
WRITE ▼	BYTE ▼	9

Transaction Name: Serial12 (@ 12), Transaction Number: 3

I/O Transaction	
WAIT ▼	FOR INTERVAL (sec): .5

Transaction Name: Serial12 (@ 12), Transaction Number: 4

I/O Transaction	
EXECUTE ▼	RESET ▼

Transaction Name: Serial12 (@ 12), Transaction Number: 5

I/O Transaction		
WRITE ▼	BYTE ▼	254

Transaction Name: Serial12 (@ 12), Transaction Number: 6

I/O Transaction		
WRITE ▼	BYTE ▼	1

Transaction Name: Serial12 (@ 12), Transaction Number: 7

I/O Transaction	
WAIT ▼	FOR INTERVAL (sec): .5

Transaction Name: Serial12 (@ 12), Transaction Number: 8

I/O Transaction

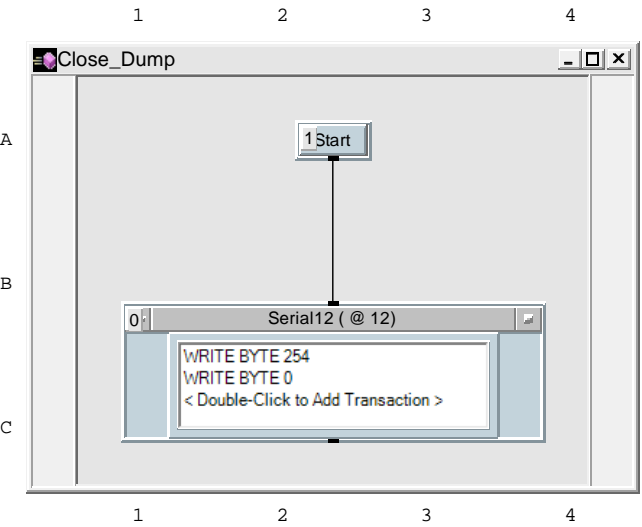
EXECUTE RESET

(F19.19)

For Count

10

Close_Dump (F24): Detail View, Total Objects: 2



```
UserFunction "Close_Dump"
- 0 at: C2 Direct I/O "Serial12 ( @ 12)"
  - ObjectIndex: F24.0
  - Declared Scope: Local to Context
  - Transactions: 2 lines.
    - WRITE BYTE 254
    - WRITE BYTE 0
  - ShowTitleBar: true
  - ShowTerminals: true
  - ShowIconTitle: true
- 1 at: A2 Start "Start"
  - ObjectIndex: F24.1
  - Declared Scope: Local to Context
  - ShowTitleBar: false
  - ShowTerminals: false
  - ShowIconTitle: true
```

Close_Dump: Object Views

(F24.0)

Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 0
< Double-Click to Add Transaction >

Transaction Name: Serial12 (@ 12), Transaction Number: 1

I/O Transaction

WRITE BYTE 254

Transaction Name: Serial12 (@ 12), Transaction Number: 2

I/O Transaction

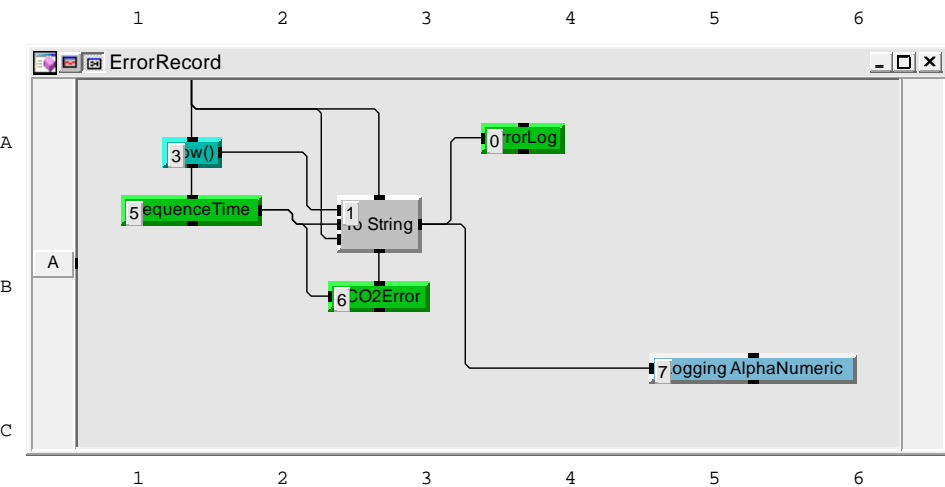
WRITE BYTE 0

(F24 . 1)



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ErrorRecord (F18): Detail View, Total Objects: 6



```

UserFunction "ErrorRecord"
0 at: A4 Set Variable "ErrorLog"
  ObjectIndex: F18.0
  Declared Scope: Local to Context
  Global Name: "ErrorLog"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
1 at: A3 To String "To String"
  ObjectIndex: F18.1
  Declared Scope: Local to Context
  Transactions: 5 lines.
    WRITE TEXT a DATE:DMY TIME:HMS:H24
    WRITE TEXT " , " STR
    WRITE TEXT b
    WRITE TEXT " , " STR
    WRITE TEXT c EOL
  MultiFieldFormat: (...) Syntax
  ArrayFormat: Block
  ArraySeparator: " "
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
3 at: A1 Formula "now()"
  ObjectIndex: F18.3
  Declared Scope: Local to Context
  Formula: now()
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
5 at: A1 Get Variable "SequenceTime"
  ObjectIndex: F18.5
  Declared Scope: Local to Context
  Global Name: "SequenceTime"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
6 at: B3 Set Variable "TCO2Error"
  ObjectIndex: F18.6
  Declared Scope: Local to Context
  Global Name: "TCO2Error"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
7 at: B5 Logging AlphaNumeric "Logging AlphaNumeric" is added to panel
  ObjectIndex: F18.7
  Declared Scope: Local to Context
  Buffer Size: 256
  ShowTitleBar: true
  ShowTerminals: false
  ShowIconTitle: true

```


ErrorRecord: Panel View

100200300

ErrorRecord

Logging AlphaNumeric

100200300

PanelView "ErrorRecord" (w=320, h=232)

L 7: Logging AlphaNumeric "Logging AlphaNumeric" (x=0, y=0) (w=319, h=229)

ErrorRecord: Object Views

(F18.0)

ErrorLog

DataNameErrorLog

(F18.1)

To String

AWRITE TEXT a DATE:DMY TIME:HM

BWRITE TEXT ". " STR

CWRITE TEXT b

WRITE TEXT ". " STR

WRITE TEXT c EOL

Double Click to Add Transaction

result

Transaction Name: To String, Transaction Number: 1

I/O Transaction

WRITE

TEXT

a

TIME STAMP FORMAT

DEFAULT FIELD WIDTH

Date & Time

DD/Month/YYYY

HH:MM:SS

24 HOUR

EOL OFF

Transaction Name: To String, Transaction Number: 2

I/O Transaction

WRITE

TEXT

", "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 3

I/O Transaction

WRITE

TEXT

b

DEFAULT FORMAT

EOL OFF

Transaction Name: To String, Transaction Number: 4

I/O Transaction

WRITE

TEXT

","

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 5

I/O Transaction

WRITE

TEXT

c

DEFAULT FORMAT

EOL ON

(F18.3)

(F18.5)

(F18.6)

(F18.7)

now()

now()

Result

SequenceTime

Name

SequenceTime

Data

TCO2Error

Name

TCO2Error

Data

Logging AlphaNumeric

Full_Flow (F22): Detail View, Total Objects: 3

123456

Full_Flow

2Start

0Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 3
WRITE BYTE 254
WRITE BYTE 10

3Note Pad

Turn off relay #4
Turn on relay #3

UserFunction "Full_Flow"

0 at: B2 Direct I/O "Serial12 (@ 12)"

ObjectIndex: F22.0

Declared Scope: Local to Context

Transactions: 4 lines.

WRITE BYTE 254

WRITE BYTE 3

WRITE BYTE 254

WRITE BYTE 10

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

2 at: A2 Start "Start"

ObjectIndex: F22.2

Declared Scope: Local to Context

ShowTitleBar: false

ShowTerminals: false

ShowIconTitle: true

3 at: B5 Note Pad "Note Pad"

ObjectIndex: F22.3

Declared Scope: Local to Context

Note Contents: 2 lines.

Turn off relay #4

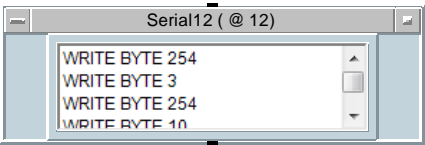
Turn on relay #3

ShowTitleBar: true

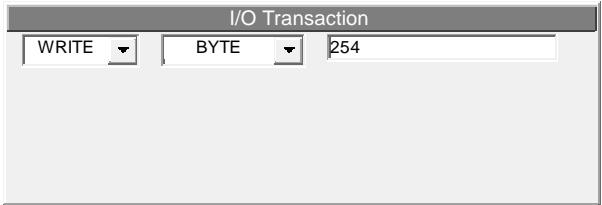
ShowTerminals: false

ShowIconTitle: true

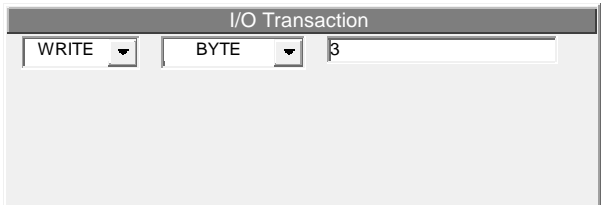
(F22.0)



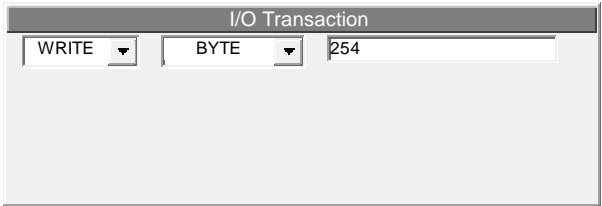
Transaction Name: Serial12 (@ 12), Transaction Number: 1



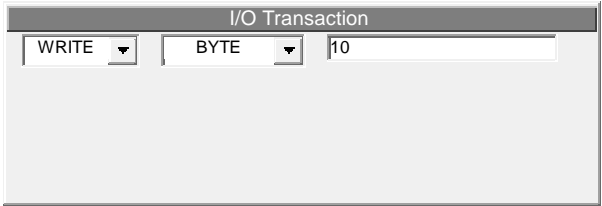
Transaction Name: Serial12 (@ 12), Transaction Number: 2



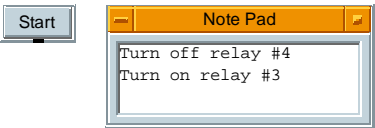
Transaction Name: Serial12 (@ 12), Transaction Number: 3



Transaction Name: Serial12 (@ 12), Transaction Number: 4

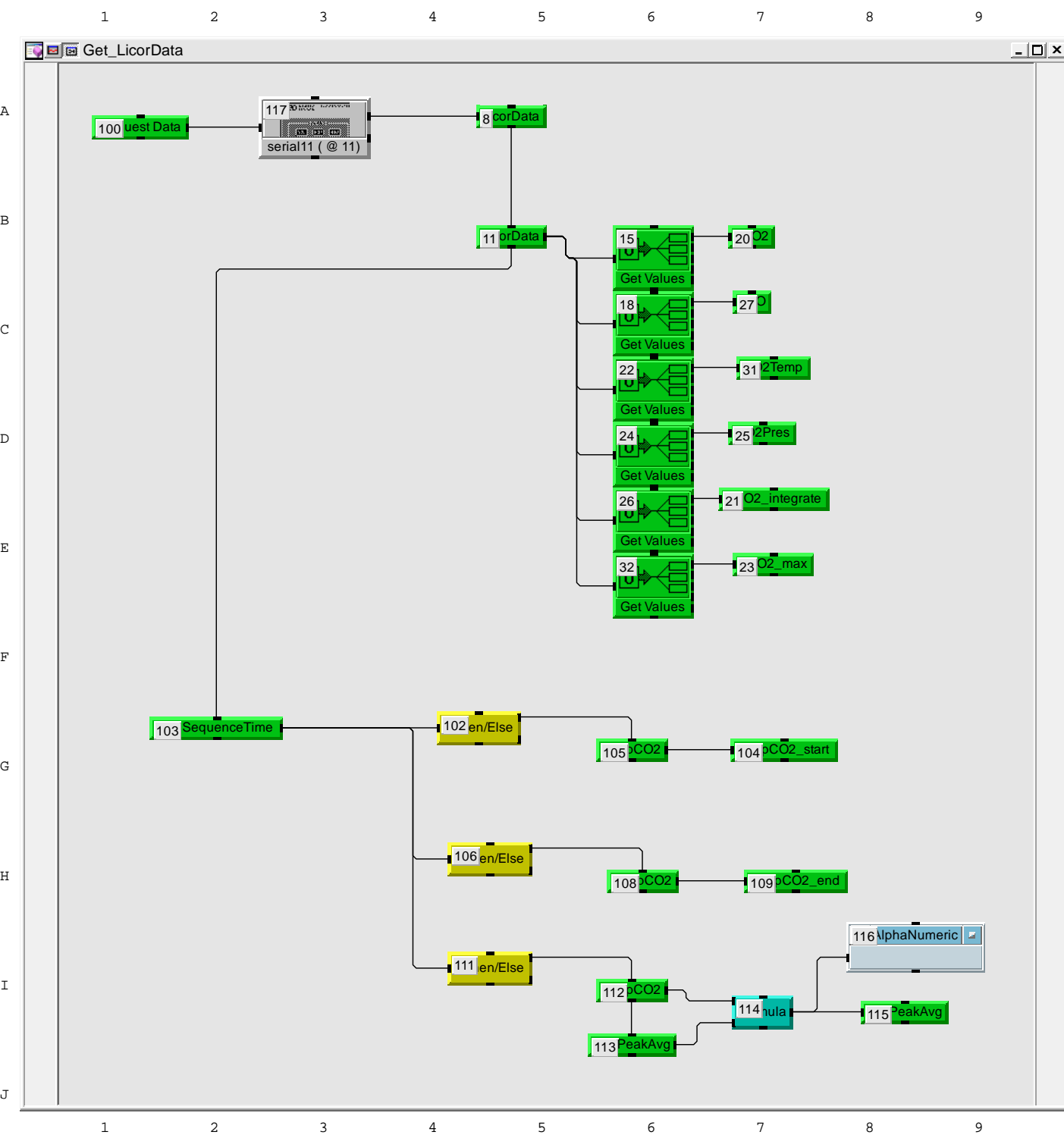


(F22.2) (F22.3)



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Get_LicorData (F14): Detail View, Total Objects: 29



```

UserFunction "Get_LicorData"
- 8 at: A5 Set Variable "LicorData"
  | ObjectIndex: F14.8
  | Declared Scope: Local to Context
  | Global Name: "LicorData"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 11 at: B5 Get Variable "LicorData"
  | ObjectIndex: F14.11
  | Declared Scope: Local to Context
  | Global Name: "LicorData"
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 15 at: B6 Get Values "Get Values"
  | ObjectIndex: F14.15
  | Declared Scope: Local to Context

```

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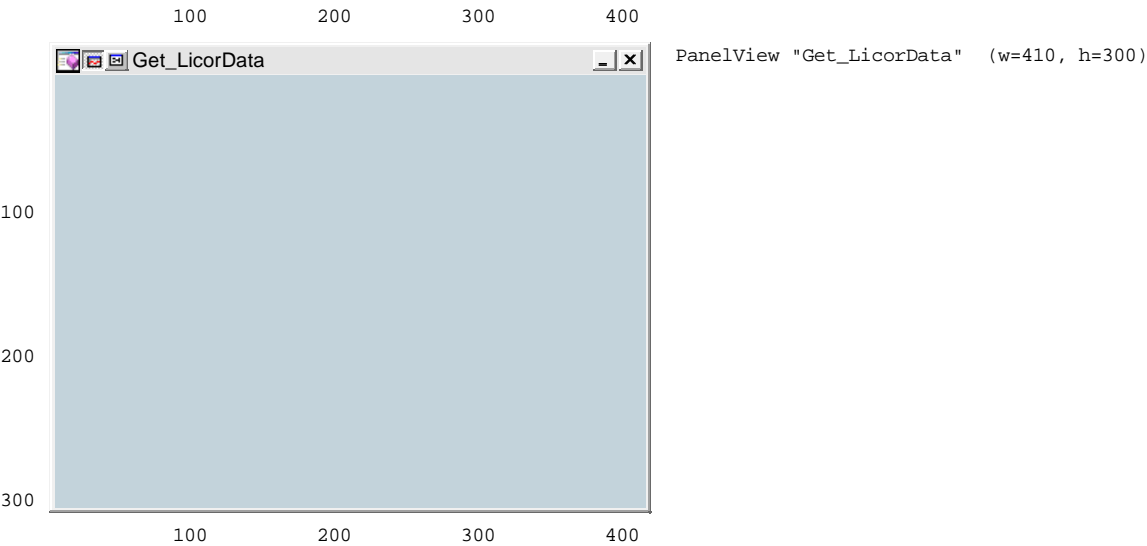
```
-
| Formula: Ary[1]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 18 at: C6  Get Values "Get Values"
| ObjectIndex: F14.18
| Declared Scope: Local to Context
| Formula: Ary[2]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 20 at: B7  Set Variable "pCO2"
| ObjectIndex: F14.20
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 21 at: D7  Set Variable "pCO2_integrate"
| ObjectIndex: F14.21
| Declared Scope: Local to Context
| Global Name: "pCO2_integrate"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 22 at: C6  Get Values "Get Values"
| ObjectIndex: F14.22
| Declared Scope: Local to Context
| Formula: Ary[6]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 23 at: E7  Set Variable "pCO2_max"
| ObjectIndex: F14.23
| Declared Scope: Local to Context
| Global Name: "pCO2_max"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 24 at: D6  Get Values "Get Values"
| ObjectIndex: F14.24
| Declared Scope: Local to Context
| Formula: Ary[5]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 25 at: D7  Set Variable "CO2Pres"
| ObjectIndex: F14.25
| Declared Scope: Local to Context
| Global Name: "CO2Pres"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 26 at: E6  Get Values "Get Values"
| ObjectIndex: F14.26
| Declared Scope: Local to Context
| Formula: Ary[3]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 27 at: C7  Set Variable "H2O"
| ObjectIndex: F14.27
| Declared Scope: Local to Context
| Global Name: "H2O"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 31 at: C7  Set Variable "CO2Temp"
| ObjectIndex: F14.31
| Declared Scope: Local to Context
| Global Name: "CO2Temp"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
```

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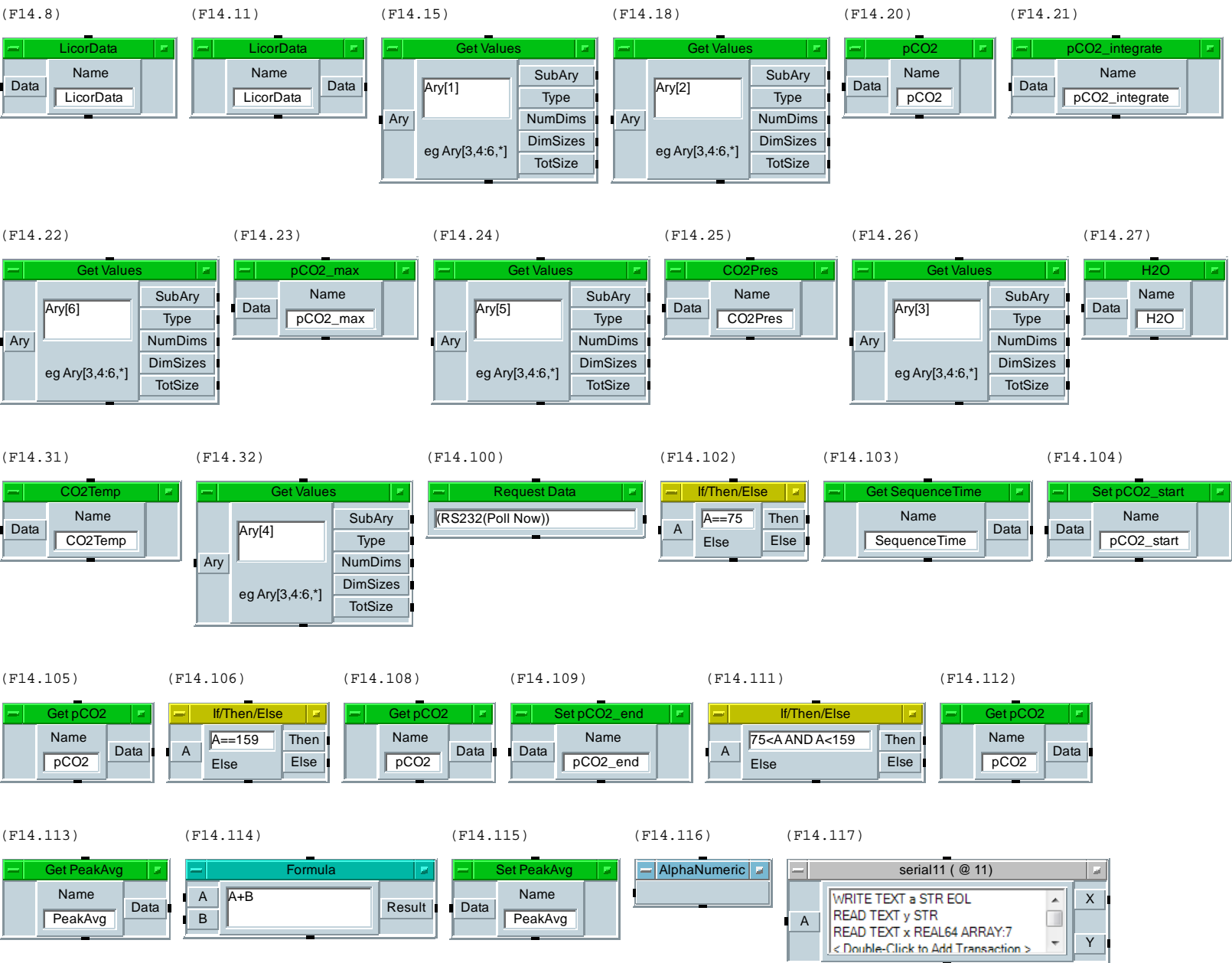
```
- 32 at: E6  Get Values "Get Values"
| ObjectIndex: F14.32
| Declared Scope: Local to Context
| Formula: Ary[4]
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 100 at: A1  Text Constant "Request Data"
| ObjectIndex: F14.100
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
- 102 at: G4  If/Then/Else "If/Then/Else"
| ObjectIndex: F14.102
| Declared Scope: Local to Context
| If/Else cases: A==75
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 103 at: G2  Get Variable "Get SequenceTime"
| ObjectIndex: F14.103
| Declared Scope: Local to Context
| Global Name: "SequenceTime"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 104 at: G7  Set Variable "Set pCO2_start"
| ObjectIndex: F14.104
| Declared Scope: Local to Context
| Global Name: "pCO2_start"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 105 at: G6  Get Variable "Get pCO2"
| ObjectIndex: F14.105
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 106 at: H4  If/Then/Else "If/Then/Else"
| ObjectIndex: F14.106
| Declared Scope: Local to Context
| If/Else cases: A==159
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 108 at: H6  Get Variable "Get pCO2"
| ObjectIndex: F14.108
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 109 at: H7  Set Variable "Set pCO2_end"
| ObjectIndex: F14.109
| Declared Scope: Local to Context
| Global Name: "pCO2_end"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 111 at: I4  If/Then/Else "If/Then/Else"
| ObjectIndex: F14.111
| Declared Scope: Local to Context
| If/Else cases: 75<A AND A<159
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
- 112 at: I6  Get Variable "Get pCO2"
| ObjectIndex: F14.112
```

```
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
113 at: I6  Get Variable "Get PeakAvg"
| ObjectIndex: F14.113
| Declared Scope: Local to Context
| Global Name: "PeakAvg"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
114 at: I7  Formula "Formula"
| ObjectIndex: F14.114
| Declared Scope: Local to Context
| Formula: A+B
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
115 at: I8  Set Variable "Set PeakAvg"
| ObjectIndex: F14.115
| Declared Scope: Local to Context
| Global Name: "PeakAvg"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
116 at: I8  AlphaNumeric "AlphaNumeric"
| ObjectIndex: F14.116
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
117 at: A3  Direct I/O "serial11 ( @ 11)"
| ObjectIndex: F14.117
| Declared Scope: Local to Context
| Transactions: 3 lines.
|   WRITE TEXT a STR EOL
|   READ TEXT y STR
|   READ TEXT x REAL64 ARRAY:7
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
```

Get_LicorData: Panel View



Get_LicorData: Object Views



Transaction Name: serial11 (@ 11), Transaction Number: 1

I/O Transaction

WRITE

TEXT

a

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL ON

Transaction Name: serial11 (@ 11), Transaction Number: 2

I/O Transaction

READ

TEXT

y

STRING FORMAT

DEFAULT NUM CHARS

SCALAR

Transaction Name: serial11 (@ 11), Transaction Number: 3

I/O Transaction

READ

TEXT

x

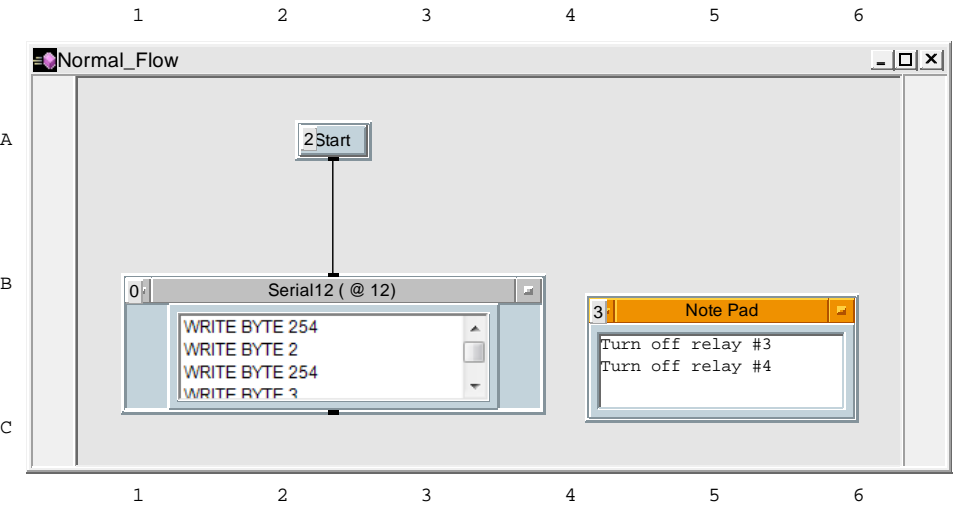
REAL64 FORMAT

DEFAULT NUM CHARS

ARRAY 1D

SIZE: (7)

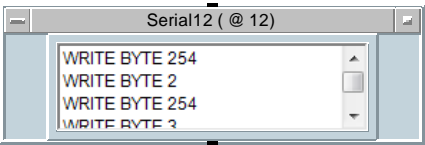
Normal_Flow (F21): Detail View, Total Objects: 3



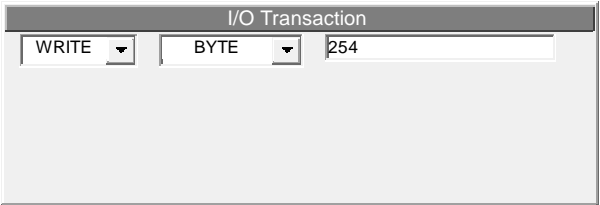
```
UserFunction "Normal_Flow"
- 0 at: B2 Direct I/O "Serial12 ( @ 12)"
  | ObjectIndex: F21.0
  | Declared Scope: Local to Context
  | Transactions: 4 lines.
  | WRITE BYTE 254
  | WRITE BYTE 2
  | WRITE BYTE 254
  | WRITE BYTE 3
  | ShowTitleBar: true
  | ShowTerminals: true
  | ShowIconTitle: true
- 2 at: A2 Start "Start"
  | ObjectIndex: F21.2
  | Declared Scope: Local to Context
  | ShowTitleBar: false
  | ShowTerminals: false
  | ShowIconTitle: true
- 3 at: B5 Note Pad "Note Pad"
  | ObjectIndex: F21.3
  | Declared Scope: Local to Context
  | Note Contents: 2 lines.
  | Turn off relay #3
  | Turn off relay #4
  | ShowTitleBar: true
  | ShowTerminals: false
  | ShowIconTitle: true
```

Normal_Flow: Object Views

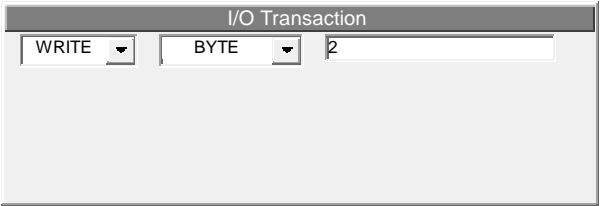
(F21.0)



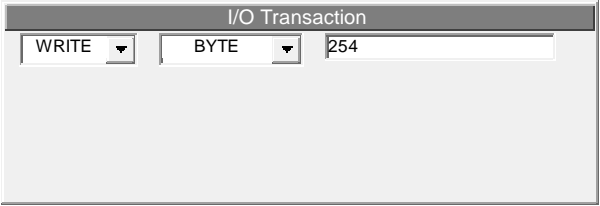
Transaction Name: Serial12 (@ 12), Transaction Number: 1



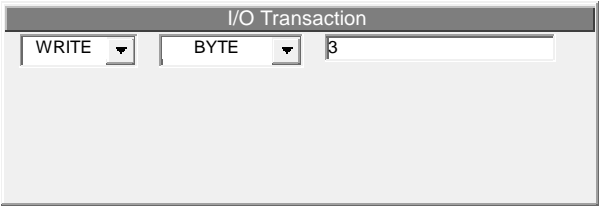
Transaction Name: Serial12 (@ 12), Transaction Number: 2



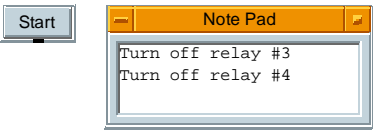
Transaction Name: Serial12 (@ 12), Transaction Number: 3



Transaction Name: Serial12 (@ 12), Transaction Number: 4



(F21.2) (F21.3)



Open_Dump (F20): Detail View, Total Objects: 2

1234

Open_Dump

1 Start

0Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 8
< Double-Click to Add Transaction >

1234

UserFunction "Open_Dump"

0 at: B2 Direct I/O "Serial12 (@ 12)"

ObjectIndex: F20.0
Declared Scope: Local to Context
Transactions: 2 lines.

WRITE BYTE 254
WRITE BYTE 8

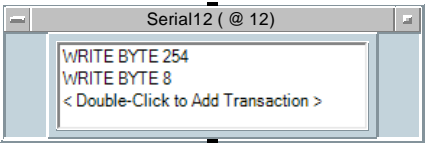
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true

1 at: A2 Start "Start"

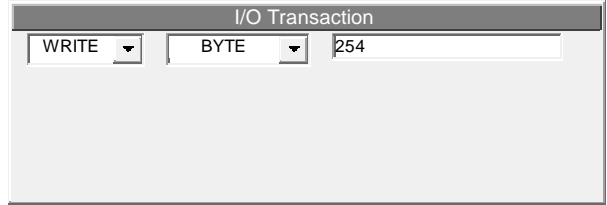
ObjectIndex: F20.1
Declared Scope: Local to Context
ShowTitleBar: false
ShowTerminals: false
ShowIconTitle: true

Open_Dump: Object Views

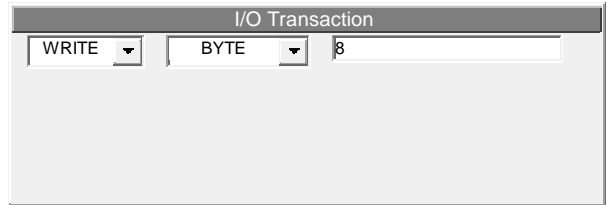
(F20.0)



Transaction Name: Serial12 (@ 12), Transaction Number: 1



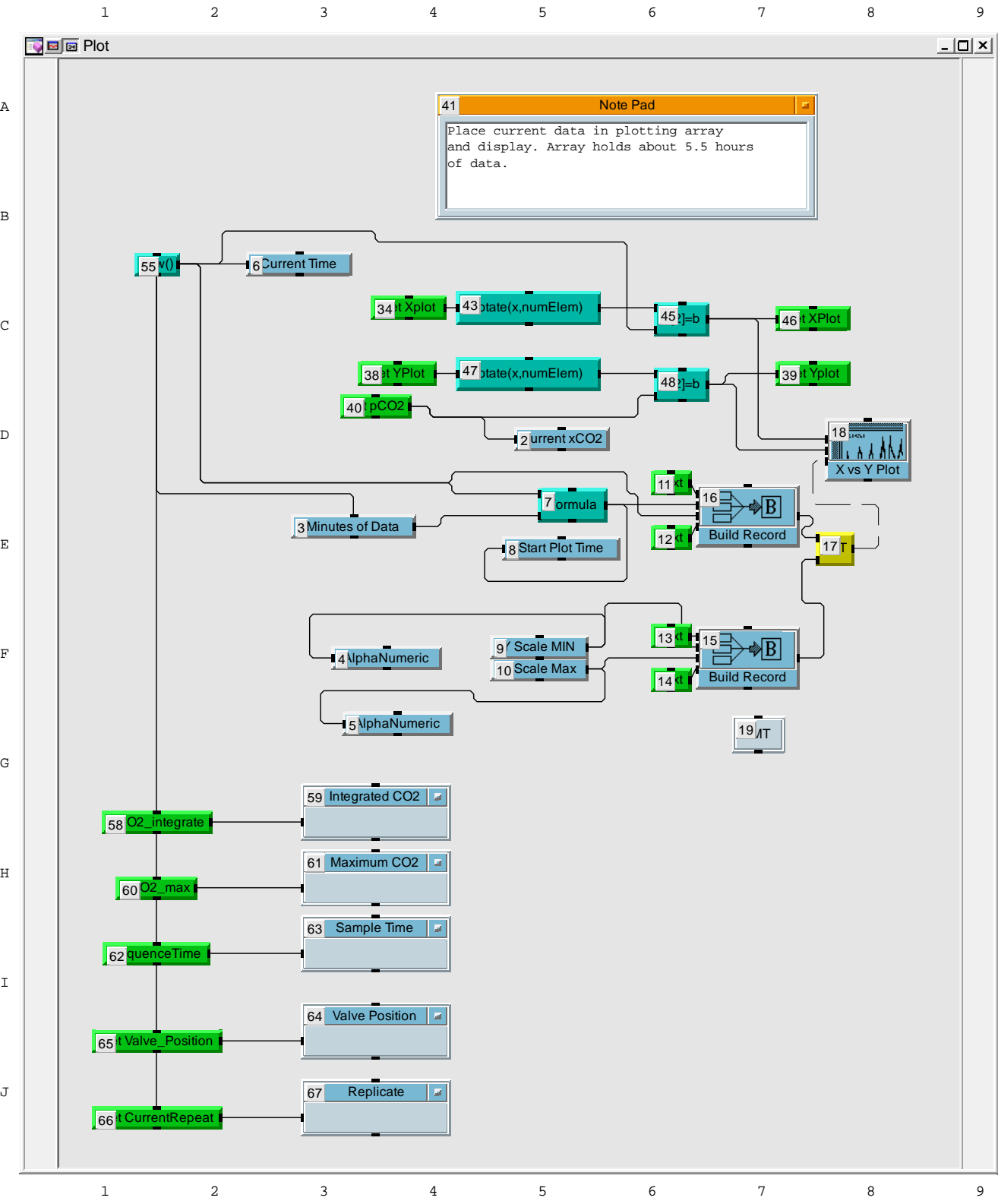
Transaction Name: Serial12 (@ 12), Transaction Number: 2



(F20.1)



Plot (F15): Detail View, Total Objects: 39



```
UserFunction "Plot"
2 at: D5 AlphaNumeric "Current xCO2" is added to panel
ObjectIndex: F15.2
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
3 at: E3 Slider "Minutes of Data" is added to panel
ObjectIndex: F15.3
Declared Scope: Local to Context
InitializeAtPrerun: true
InitialValue: 15
DetentSize: 1
EnableEditing: true
```

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```
Value Range: 1, 350
Detent Size: 1
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
LabelSpacing: EveryMajorTic
4 at: F3 AlphaNumeric "AlphaNumeric" is added to panel
ObjectIndex: F15.4
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
5 at: G4 AlphaNumeric "AlphaNumeric" is added to panel
ObjectIndex: F15.5
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
6 at: B3 AlphaNumeric "Current Time" is added to panel 2 times
ObjectIndex: F15.6
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
7 at: E5 Formula "Formula"
ObjectIndex: F15.7
Declared Scope: Local to Context
Formula: a-b*60
ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true
8 at: E5 AlphaNumeric "Start Plot Time" is added to panel
ObjectIndex: F15.8
Declared Scope: Local to Context
ClearAtActivate: false
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
9 at: F5 Slider "Y Scale MIN" is added to panel
ObjectIndex: F15.9
Declared Scope: Local to Context
InitializeAtPrerun: true
InitialValue: 0
DetentSize: 25
EnableEditing: true
Value Range: -500, 500
Detent Size: 25
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
LabelSpacing: EveryMajorTic
10 at: F5 Slider "Y Scale Max" is added to panel
ObjectIndex: F15.10
Declared Scope: Local to Context
InitializeAtPrerun: true
InitialValue: 500
DetentSize: 25
EnableEditing: true
Value Range: 0, 2000
Detent Size: 25
ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true
LabelSpacing: EveryMajorTic
11 at: D6 Text Constant "Text"
ObjectIndex: F15.11
Declared Scope: Local to Context
DataShape: Scalar
ArraySize: 10
EnableEditing: true
ShowTitleBar: true
```

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```
| ShowTerminals: false
| ShowIconTitle: true
12 at: E6 Text Constant "Text"
| ObjectIndex: F15.12
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
13 at: F6 Text Constant "Text"
| ObjectIndex: F15.13
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
14 at: F6 Text Constant "Text"
| ObjectIndex: F15.14
| Declared Scope: Local to Context
| DataShape: Scalar
| ArraySize: 10
| EnableEditing: true
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
15 at: F7 Build Record "Build Record"
| ObjectIndex: F15.15
| Declared Scope: Local to Context
| Record output shape: Scalar
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
16 at: E7 Build Record "Build Record"
| ObjectIndex: F15.16
| Declared Scope: Local to Context
| Record output shape: Scalar
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
17 at: E8 Junction "JCT"
| ObjectIndex: F15.17
| Declared Scope: Local to Context
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
18 at: D8 X vs Y Plot "X vs Y Plot" is added to panel
| ObjectIndex: F15.18
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
| NumMarkers: None
| MarkerInterpolate: false
| MarkerColor: Dark Gray
| ShowScalesLegend: true
| ShowScaleLabels: true
| ShowScrollBars: true
| ShowAutoScaleButton: true
| EnableEditTracesAndScales: true
| GridType: Lines
19 at: G7 Label "GMT" is added to panel
| ObjectIndex: F15.19
| Declared Scope: Local to Context
| Label: "GMT"
| ShowTitleBar: false
| ShowTerminals: false
| ShowIconTitle: true
34 at: C4 Get Variable "Get Xplot"
| ObjectIndex: F15.34
```

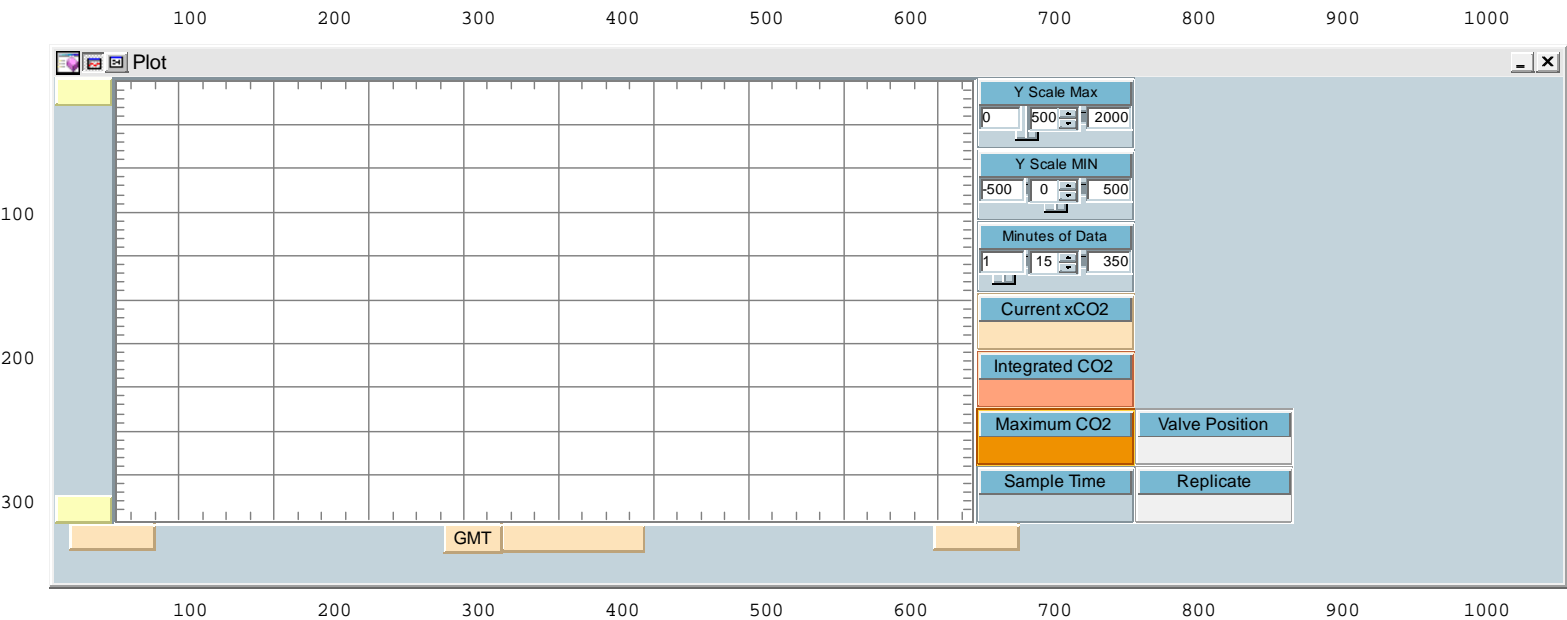
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```
| Declared Scope: Local to Context
| Global Name: "Xplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
38 at: C4  Get Variable "Get YPlot"
| ObjectIndex: F15.38
| Declared Scope: Local to Context
| Global Name: "Yplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
39 at: C7  Set Variable "Set Yplot"
| ObjectIndex: F15.39
| Declared Scope: Local to Context
| Global Name: "Yplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
40 at: D3  Get Variable "Get pCO2"
| ObjectIndex: F15.40
| Declared Scope: Local to Context
| Global Name: "pCO2"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
41 at: A6  Note Pad "Note Pad"
| ObjectIndex: F15.41
| Declared Scope: Local to Context
| Note Contents: 3 lines.
|   | Place current data in plotting array
|   | and display. Array holds about 5.5 hours
|   | of data.
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
43 at: C5  Formula "rotate(x,numElem)"
| ObjectIndex: F15.43
| Declared Scope: Local to Context
| Formula: rotate(x, 1)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
45 at: C6  Formula "a[2]=b"
| ObjectIndex: F15.45
| Declared Scope: Local to Context
| Formula: a[0] = b
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
46 at: C7  Set Variable "Set XPlot"
| ObjectIndex: F15.46
| Declared Scope: Local to Context
| Global Name: "Xplot"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
47 at: C5  Formula "rotate(x,numElem)"
| ObjectIndex: F15.47
| Declared Scope: Local to Context
| Formula: rotate(x, 1)
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
48 at: C6  Formula "a[2]=b"
| ObjectIndex: F15.48
| Declared Scope: Local to Context
| Formula: a[0] = b
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
55 at: B1  Formula "now()"
| ObjectIndex: F15.55
| Declared Scope: Local to Context
```

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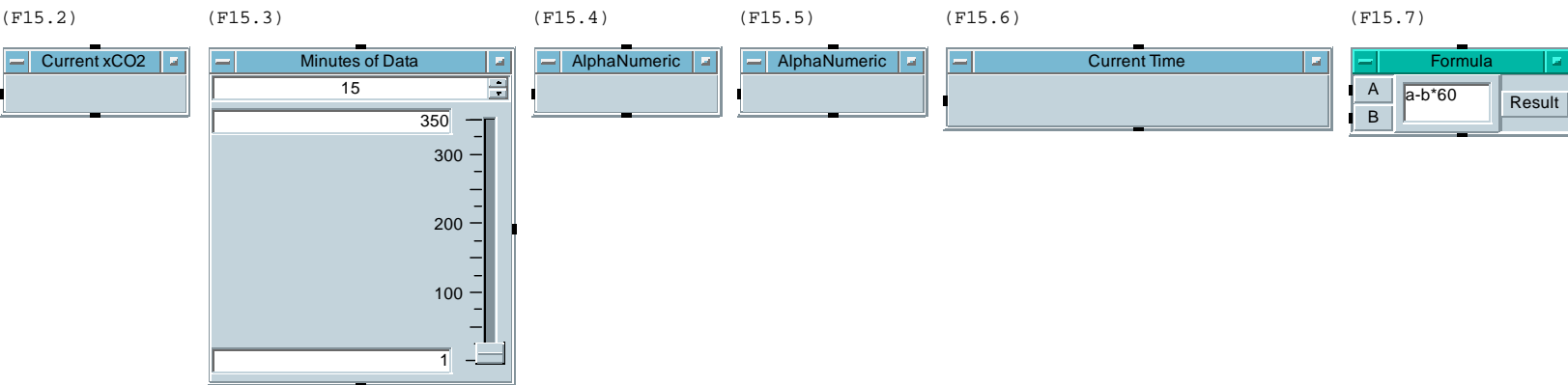
```
| Formula: now()
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
58 at: G1 Get Variable "pCO2_integrate"
| ObjectIndex: F15.58
| Declared Scope: Local to Context
| Global Name: "pCO2_integrate"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
59 at: G3 AlphaNumeric "Integrated CO2" is added to panel
| ObjectIndex: F15.59
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
60 at: H1 Get Variable "pCO2_max"
| ObjectIndex: F15.60
| Declared Scope: Local to Context
| Global Name: "pCO2_max"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
61 at: H3 AlphaNumeric "Maximum CO2" is added to panel
| ObjectIndex: F15.61
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
62 at: I1 Get Variable "SequenceTime"
| ObjectIndex: F15.62
| Declared Scope: Local to Context
| Global Name: "SequenceTime"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
63 at: I3 AlphaNumeric "Sample Time" is added to panel
| ObjectIndex: F15.63
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
64 at: I3 AlphaNumeric "Valve Position" is added to panel
| ObjectIndex: F15.64
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
65 at: I1 Get Variable "Get Valve_Position"
| ObjectIndex: F15.65
| Declared Scope: Local to Context
| Global Name: "Valve_Position"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
66 at: J1 Get Variable "Get CurrentRepeat"
| ObjectIndex: F15.66
| Declared Scope: Local to Context
| Global Name: "CurrentRepeat"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
67 at: J3 AlphaNumeric "Replicate" is added to panel
| ObjectIndex: F15.67
| Declared Scope: Local to Context
| ClearAtActivate: false
| ShowTitleBar: true
| ShowTerminals: false
| ShowIconTitle: true
```

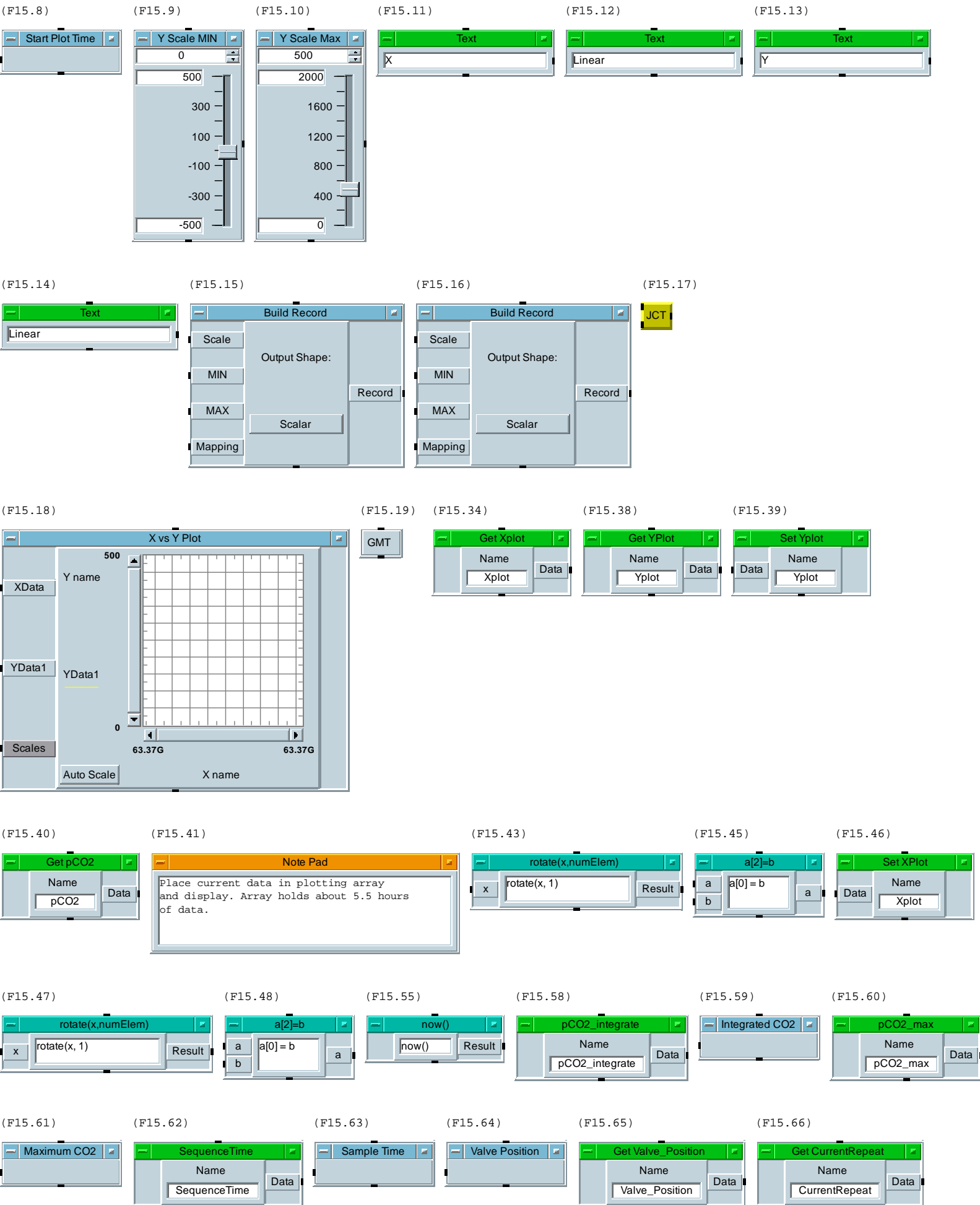

Plot: Panel View



```
PanelView "Plot" (w=1047, h=351)
5: AlphaNumeric "AlphaNumeric" (x=0, y=0) (w=40, h=20)
9: Slider "Y Scale MIN" (x=640, y=50) (w=110, h=50)
10: Slider "Y Scale Max" (x=640, y=0) (w=110, h=50)
3: Slider "Minutes of Data" (x=640, y=100) (w=110, h=50)
2: AlphaNumeric "Current xCO2" (x=640, y=150) (w=110, h=40)
59: AlphaNumeric "Integrated CO2" (x=640, y=190) (w=110, h=40)
18: X vs Y Plot "X vs Y Plot" (x=40, y=0) (w=600, h=311)
8: AlphaNumeric "Start Plot Time" (x=10, y=310) (w=60, h=19)
4: AlphaNumeric "AlphaNumeric" (x=0, y=290) (w=40, h=20)
6: AlphaNumeric "Current Time" (x=310, y=310) (w=100, h=20)
19: Label "GMT" (x=270, y=310) (w=41, h=21)
63: AlphaNumeric "Sample Time" (x=640, y=270) (w=110, h=40)
61: AlphaNumeric "Maximum CO2" (x=640, y=230) (w=110, h=40)
6: AlphaNumeric "Current Time" (x=610, y=310) (w=60, h=19)
64: AlphaNumeric "Valve Position" (x=750, y=230) (w=110, h=40)
67: AlphaNumeric "Replicate" (x=750, y=270) (w=110, h=40)
```

Plot: Object Views



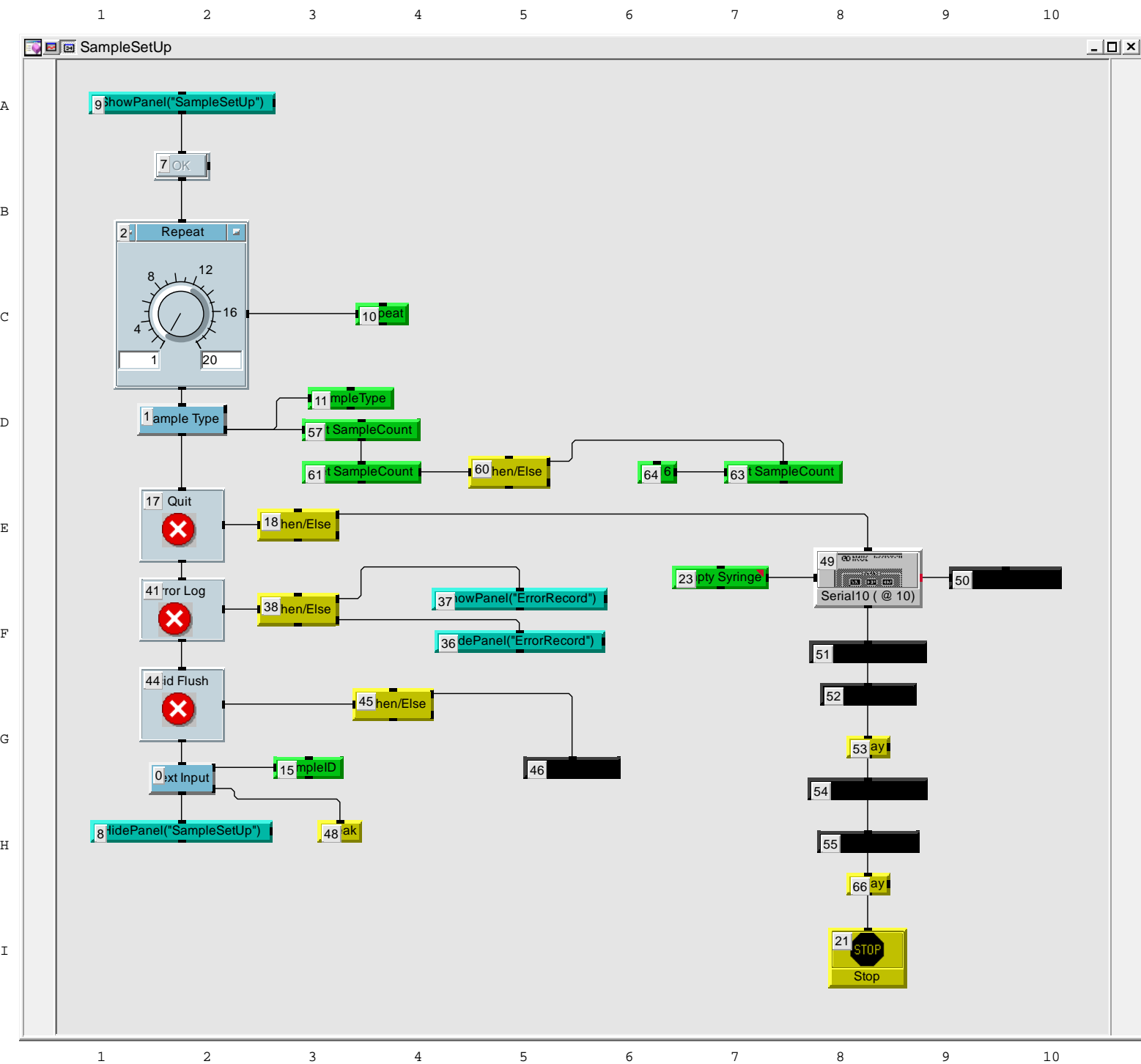


(F15.67)

	Replicate	

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SampleSetUp (F17): Detail View, Total Objects: 34



UserFunction "SampleSetUp"

0 at: G2 Text Input "Text Input"

ObjectIndex: F17.0

Declared Scope: Local to Context

PopupTitle: "Enter Sample ID"

PopupPosition: 240, 245

Prompt/Label: "Enter Sample ID"

Default Value: "Test"

Value Constraint: "strLen(value)>0"

Error Message: "You must enter text."

PopupTitleBackColor: Med Dark Orange

ShowTitleBar: true

ShowTerminals: true

ShowIconTitle: true

1 at: D2 Selection Control "Sample Type" is added to panel

ObjectIndex: F17.1

Declared Scope: Local to Context

InitializeAtPrerun: true

EnableEditing: true

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```
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
- Format: Slider List
- FormatSliderLayout: Vertical
2 at: C2 Knob "Repeat" is added to panel
- ObjectIndex: F17.2
- Declared Scope: Local to Context
- InitializeAtPrerun: true
- InitialValue: 1
- DetentSize: 1
- EnableEditing: true
- Value Range: 1, 20
- Detent Size: 1
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
- ShowDigitalDisplay: false
- LabelSpacing: EveryMajorTic
- Orientation: Horizontal
7 at: A2 OK "OK" is added to panel
- ObjectIndex: F17.7
- Declared Scope: Local to Context
- Assign to Enter Button: true
- Assign to Escape Button: false
- Assign to Function Key: None
- EnableOnPing: true
- ShowTitleBar: false
- ShowTerminals: false
- ShowIconTitle: true
8 at: H2 Formula "HidePanel("SampleSetUp")"
- ObjectIndex: F17.8
- Declared Scope: Local to Context
- Formula: HidePanel("SampleSetUp")
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
9 at: A2 Formula "ShowPanel("SampleSetUp")"
- ObjectIndex: F17.9
- Declared Scope: Local to Context
- Formula: ShowPanel("SampleSetUp", 100, 100)
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
10 at: C4 Set Variable "Repeat"
- ObjectIndex: F17.10
- Declared Scope: Local to Context
- Global Name: "Repeat"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
11 at: D3 Set Variable "SampleType"
- ObjectIndex: F17.11
- Declared Scope: Local to Context
- Global Name: "SampleType"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
15 at: G3 Set Variable "SampleID"
- ObjectIndex: F17.15
- Declared Scope: Local to Context
- Global Name: "SampleID"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
17 at: E2 Toggle Control "Quit" is added to panel
- ObjectIndex: F17.17
- Declared Scope: Local to Context
- InitializeAtActivate: true
- InitialValue: 0
- EnableEditing: true
- ShowTitleBar: false
- ShowTerminals: false
- ShowIconTitle: true
- Format: <Custom>
```

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```
└─ Format: <Custom>
└─ Scaled: false
18 at: E3 If/Then/Else "If/Then/Else"
└─ ObjectIndex: F17.18
└─ Declared Scope: Local to Context
└─ If/Else cases: a==1
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
21 at: I8 Stop "Stop"
└─ ObjectIndex: F17.21
└─ Declared Scope: Local to Context
└─ Exit code: 0
└─ ShowTitleBar: true
└─ ShowTerminals: false
└─ ShowIconTitle: true
23 at: E7 Text Constant "Empty Syringe"
└─ ObjectIndex: F17.23
└─ Description: Valve 1 to Port 2
└─ Declared Scope: Local to Context
└─ DataShape: Scalar
└─ ArraySize: 10
└─ EnableEditing: true
└─ ShowTitleBar: true
└─ ShowTerminals: false
└─ ShowIconTitle: true
36 at: F5 Formula "HidePanel("ErrorRecord")"
└─ ObjectIndex: F17.36
└─ Declared Scope: Local to Context
└─ Formula: HidePanel("ErrorRecord")
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
37 at: F5 Formula "ShowPanel("ErrorRecord")"
└─ ObjectIndex: F17.37
└─ Declared Scope: Local to Context
└─ Formula: ShowPanel("ErrorRecord")
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
38 at: F3 If/Then/Else "If/Then/Else"
└─ ObjectIndex: F17.38
└─ Declared Scope: Local to Context
└─ If/Else cases: l==A
└─ ShowTitleBar: true
└─ ShowTerminals: true
└─ ShowIconTitle: true
41 at: F2 Toggle Control " Error Log" is added to panel
└─ ObjectIndex: F17.41
└─ Declared Scope: Local to Context
└─ InitializeAtActivate: true
└─ InitialValue: 0
└─ EnableEditing: true
└─ ShowTitleBar: false
└─ ShowTerminals: false
└─ ShowIconTitle: true
└─ Format: <Custom>
└─ Scaled: false
44 at: G2 Toggle Control "Acid Flush" is added to panel
└─ ObjectIndex: F17.44
└─ Declared Scope: Local to Context
└─ AutoExecute: true
└─ InitializeAtActivate: true
└─ InitialValue: 0
└─ EnableEditing: true
└─ ShowTitleBar: false
└─ ShowTerminals: false
└─ ShowIconTitle: true
└─ Format: <Custom>
└─ Scaled: false
45 at: G4 If/Then/Else "If/Then/Else"
└─ ObjectIndex: F17.45
└─ Declared Scope: Local to Context
└─ If/Else cases: a==1
└─ ShowTitleBar: true
```

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```

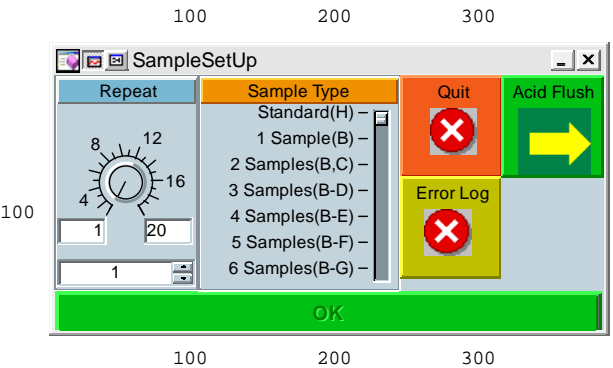
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
46 at: G5 Call "Call AcidFlush"
- ObjectIndex: F17.46
- Declared Scope: Local to Context
- Function name: "AcidFlush"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
48 at: H3 Break "Break"
- ObjectIndex: F17.48
- Declared Scope: Local to Context
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
49 at: E8 Direct I/O "Serial10 ( @ 10)"
- ObjectIndex: F17.49
- Declared Scope: Local to Context
- Transactions: WRITE TEXT a EOL
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
50 at: E9 Call "Call ErrorRecord"
- ObjectIndex: F17.50
- Declared Scope: Local to Context
- Function name: "ErrorRecord"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
51 at: F8 Call "Call Open_Dump"
- ObjectIndex: F17.51
- Declared Scope: Local to Context
- Function name: "Open_Dump"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
52 at: F8 Call "Call Full_Flow"
- ObjectIndex: F17.52
- Declared Scope: Local to Context
- Function name: "Full_Flow"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
53 at: G8 Delay "Delay"
- ObjectIndex: F17.53
- Declared Scope: Local to Context
- Delay: 10
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
54 at: G8 Call "Call Close_Dump"
- ObjectIndex: F17.54
- Declared Scope: Local to Context
- Function name: "Close_Dump"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
55 at: H8 Call "Call Stop_Flow"
- ObjectIndex: F17.55
- Declared Scope: Local to Context
- Function name: "Stop_Flow"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
57 at: D3 Set Variable "Set SampleCount"
- ObjectIndex: F17.57
- Declared Scope: Local to Context
- Global Name: "SampleCount"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
60 at: D5 If/Then/Else "If/Then/Else"
- ObjectIndex: F17.60
- Declared Scope: Local to Context

```



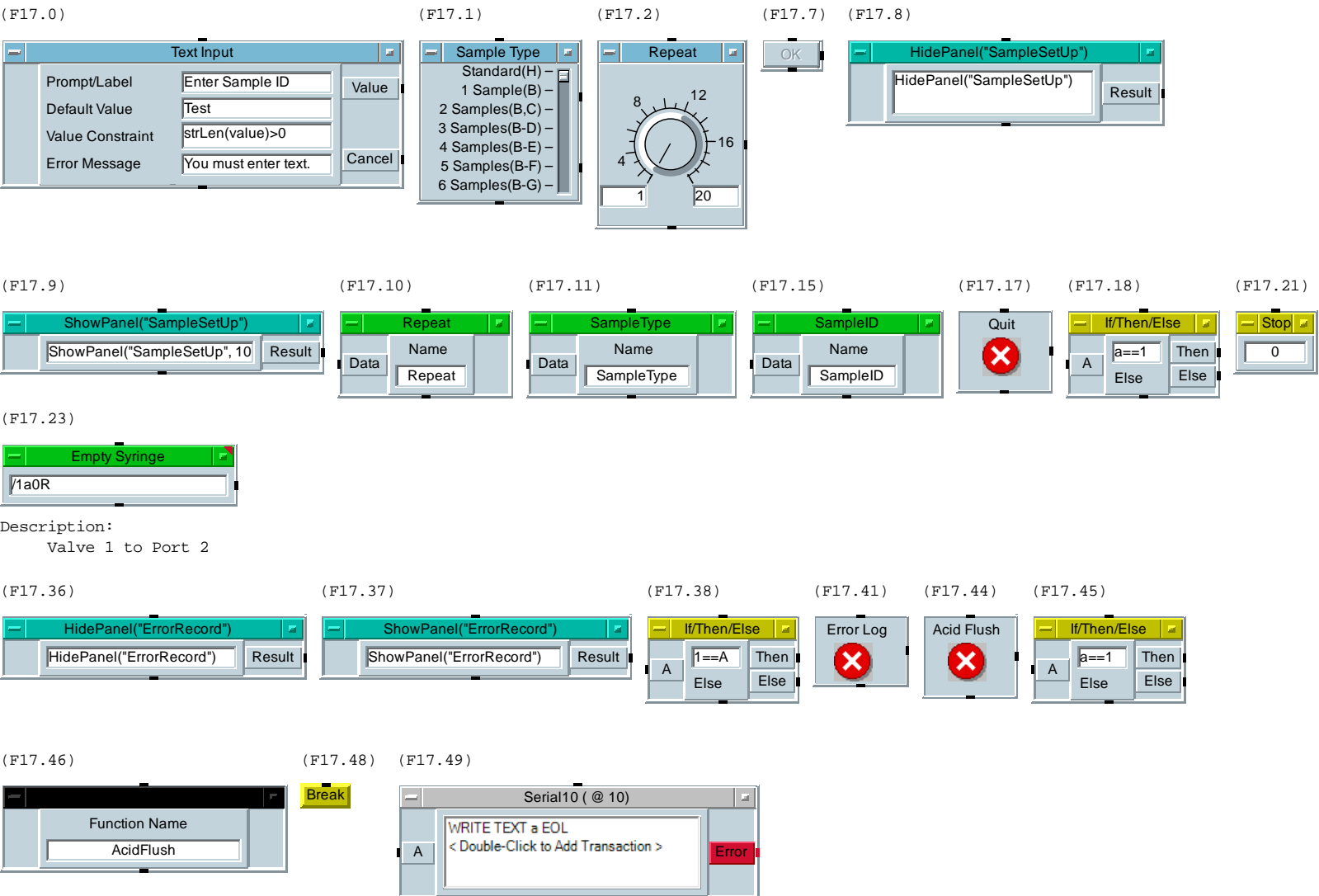
```
-----
- If/Else cases: a==0
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
61 at: D3  Get Variable "Get SampleCount"
- ObjectIndex: F17.61
- Declared Scope: Local to Context
- Global Name: "SampleCount"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
63 at: D7  Set Variable "Set SampleCount"
- ObjectIndex: F17.63
- Declared Scope: Local to Context
- Global Name: "SampleCount"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
64 at: D6  Constant "Int16"
- ObjectIndex: F17.64
- Declared Scope: Local to Context
- InitialValue: 0
- DataShape: Scalar
- ArraySize: 10
- EnableEditing: true
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
66 at: H8  Delay "Delay"
- ObjectIndex: F17.66
- Declared Scope: Local to Context
- Delay: 1
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
```

SampleSetUp: Panel View



```
PanelView "SampleSetUp" (w=381, h=177)
2: Knob "Repeat" (x=0, y=0) (w=100, h=150)
7: OK "OK" (x=0, y=150) (w=380, h=31)
1: Selection Control "Sample Type" (x=100, y=0) (w=140, h=150)
17: Toggle Control "Quit" (x=240, y=0) (w=71, h=71)
41: Toggle Control "Error Log" (x=240, y=70) (w=70, h=71)
44: Toggle Control "Acid Flush" (x=310, y=0) (w=71, h=71)
```

SampleSetUp: Object Views



Transaction Name: Serial10 (@ 10), Transaction Number: 1

I/O Transaction		
WRITE	TEXT	a
DEFAULT FORMAT		EOL ON

(F17.50)

Function Name	
A	ErrorRecord

(F17.51)

Function Name	
	Open_Dump

(F17.52)

Function Name	
	Full_Flow

(F17.53)

De...
10

(F17.54)

Function Name	
	Close_Dump

(F17.55)

Function Name	
	Stop_Flow

(F17.57)

Set SampleCount	
Data	Name SampleCount

(F17.60)

If/Then/Else		
A	a==0	Then
	Else	Else

(F17.61)

Get SampleCount	
Name	Data
SampleCount	

(F17.63)

Set SampleCount	
Data	Name SampleCount

(F17.64)

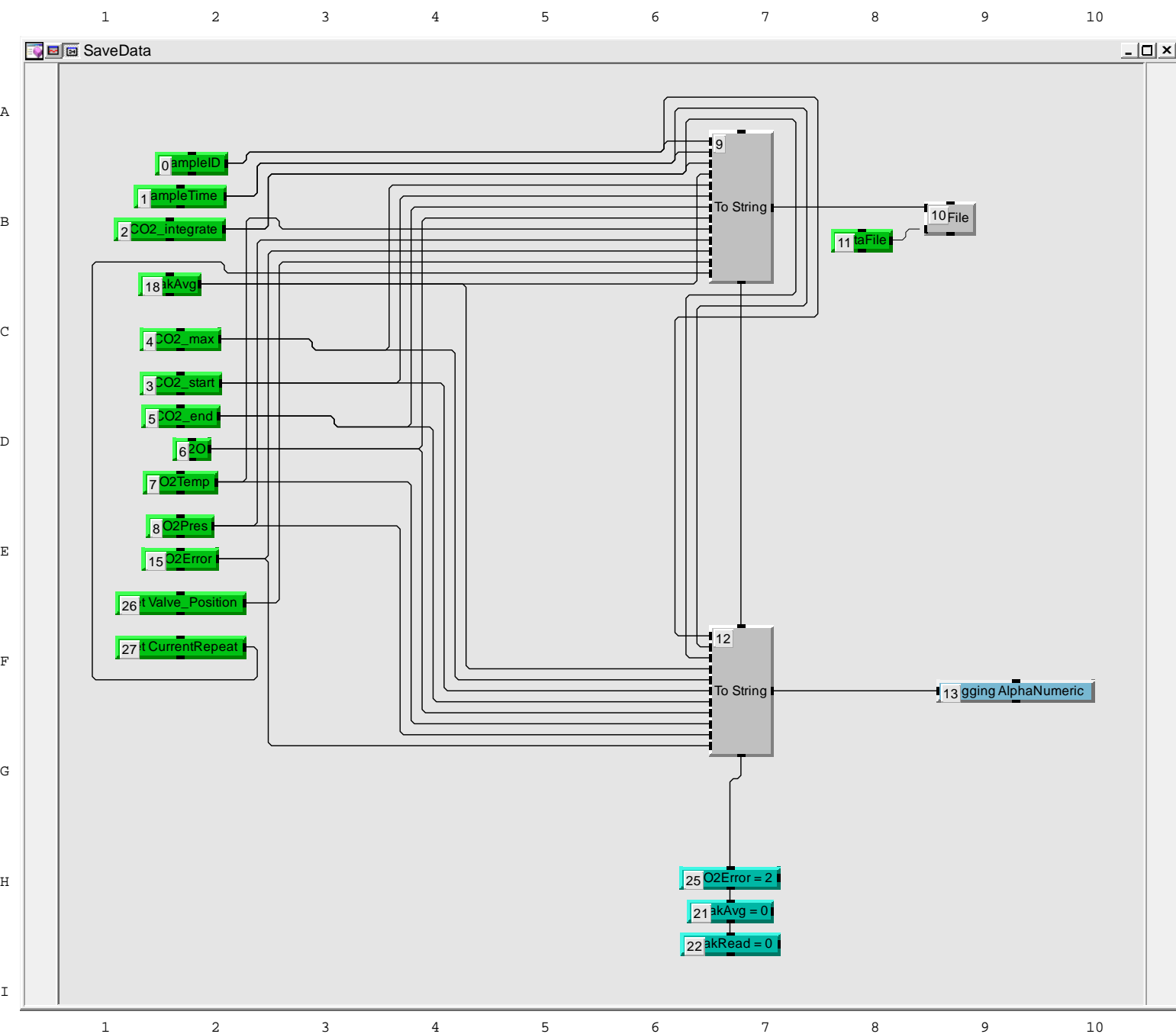
Int16
1

(F17.66)

De...
1

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SaveData (F16): Detail View, Total Objects: 21



UserFunction "SaveData"

```

0 at: A2 Get Variable "SampleID"
  ObjectIndex: F16.0
  Declared Scope: Local to Context
  Global Name: "SampleID"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
1 at: B2 Get Variable "SampleTime"
  ObjectIndex: F16.1
  Declared Scope: Local to Context
  Global Name: "SampleTime"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
2 at: B1 Get Variable "pCO2_integrate"
  ObjectIndex: F16.2
  Declared Scope: Local to Context
  Global Name: "pCO2_integrate"
  ShowTitleBar: true
  ShowTerminals: true
  ShowIconTitle: true
3 at: C2 Get Variable "pCO2_start"

```

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```

- ObjectIndex: F16.3
- Declared Scope: Local to Context
- Global Name: "pCO2_start"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
4 at: C2  Get Variable "pCO2_max"
- ObjectIndex: F16.4
- Declared Scope: Local to Context
- Global Name: "pCO2_max"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
5 at: D2  Get Variable "pCO2_end"
- ObjectIndex: F16.5
- Declared Scope: Local to Context
- Global Name: "pCO2_end"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
6 at: D2  Get Variable "H2O"
- ObjectIndex: F16.6
- Declared Scope: Local to Context
- Global Name: "H2O"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
7 at: D2  Get Variable "CO2Temp"
- ObjectIndex: F16.7
- Declared Scope: Local to Context
- Global Name: "CO2Temp"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
8 at: E2  Get Variable "CO2Pres"
- ObjectIndex: F16.8
- Declared Scope: Local to Context
- Global Name: "CO2Pres"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
9 at: B7  To String "To String"
- ObjectIndex: F16.9
- Declared Scope: Local to Context
- Transactions: 27 lines.
  - WRITE TEXT a STR
  - WRITE TEXT ", " STR
  - WRITE TEXT B DATE:DMY TIME:HMS:H24
  - WRITE TEXT ", " STR
  - WRITE TEXT B
  - WRITE TEXT ", " STR
  - WRITE TEXT C REAL64 FIX:0
  - WRITE TEXT ", " STR
  - WRITE TEXT D REAL64 FIX:2
  - WRITE TEXT ", " STR
  - WRITE TEXT E REAL64 FIX:2
  - WRITE TEXT ", " STR
  - WRITE TEXT F REAL64 FIX:2
  - WRITE TEXT ", " STR
  - WRITE TEXT G REAL64 FIX:2
  - WRITE TEXT ", " STR
  - WRITE TEXT H REAL64 FIX:2
  - WRITE TEXT ", " STR
  - WRITE TEXT I REAL64 FIX:2
  - WRITE TEXT ", " STR
  - WRITE TEXT j REAL64 FIX:2
  - WRITE TEXT ", " STR
  - WRITE TEXT k INT16
  - WRITE TEXT ", " STR
  - WRITE TEXT l INT16
  - WRITE TEXT ", " STR
  - WRITE TEXT m INT16 EOL
- MultiFieldFormat: (...) Syntax
- ArrayFormat: Block

```

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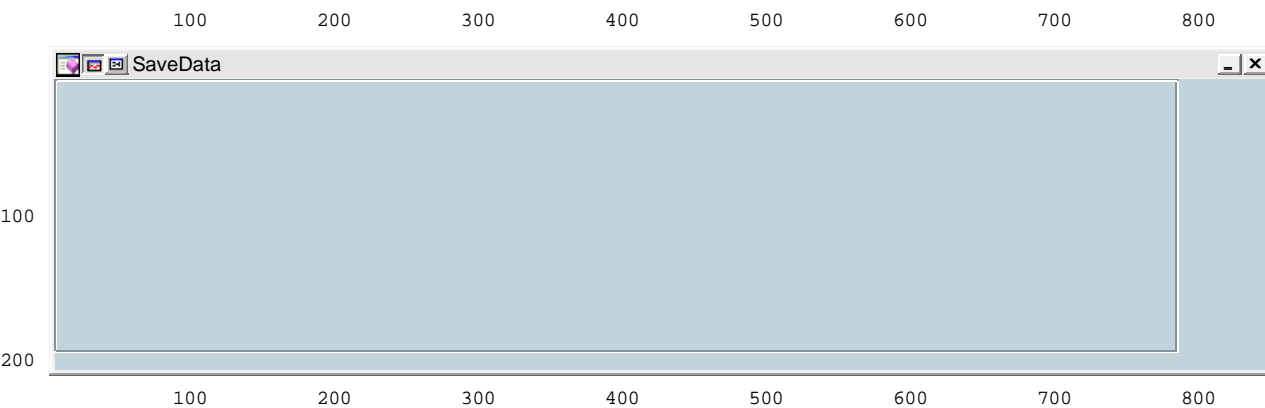
```
- ArraySeparator: " "
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
10 at: B9 To File "To File"
- ObjectIndex: F16.10
- Declared Scope: Local to Context
- Transactions: 2 lines.
  - WRITE TEXT a EOL
  - EXECUTE CLOSE
- EolSequence: "\r\n"
- MultiFieldFormat: (...) Syntax
- ArrayFormat: Block
- ArraySeparator: "\r\n"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
11 at: B8 Get Variable "DataFile"
- ObjectIndex: F16.11
- Declared Scope: Local to Context
- Global Name: "DataFile"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
12 at: F7 To String "To String"
- ObjectIndex: F16.12
- Declared Scope: Local to Context
- Transactions: 21 lines.
  - WRITE TEXT a STR FW:13 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT B DATE:DMY TIME:HMS:H24
  - WRITE TEXT " " STR
  - WRITE TEXT C REAL64 FIX:0 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT D REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT E REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT F REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT G REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT H REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT I REAL64 FIX:2 FW:6 RJ
  - WRITE TEXT " " STR
  - WRITE TEXT j REAL64 FIX:2
  - WRITE TEXT " " STR
  - WRITE TEXT k INT16 FW:6 RJ EOL
- MultiFieldFormat: (...) Syntax
- ArrayFormat: Block
- ArraySeparator: " "
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
13 at: F9 Logging AlphaNumeric "Logging AlphaNumeric" is added to panel
- ObjectIndex: F16.13
- Declared Scope: Local to Context
- ClearAtActivate: false
- Buffer Size: 256
- ShowTitleBar: true
- ShowTerminals: false
- ShowIconTitle: true
15 at: E2 Get Variable "TCO2Error"
- ObjectIndex: F16.15
- Declared Scope: Local to Context
- Global Name: "TCO2Error"
- ShowTitleBar: true
- ShowTerminals: true
- ShowIconTitle: true
18 at: B1 Get Variable "PeakAvg"
- ObjectIndex: F16.18
- Declared Scope: Local to Context
- Global Name: "PeakAvg"
```

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```
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
21 at: H7 Formula "PeakAvg = 0"
| ObjectIndex: F16.21
| Declared Scope: Local to Context
| Formula: PeakAvg = 0
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
22 at: H7 Formula "PeakRead = 0"
| ObjectIndex: F16.22
| Declared Scope: Local to Context
| Formula: PeakRead = 0
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
25 at: H7 Formula "TCO2Error = 2"
| ObjectIndex: F16.25
| Declared Scope: Local to Context
| Formula: TCO2Error = -1
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
26 at: E2 Get Variable "Get Valve_Position"
| ObjectIndex: F16.26
| Declared Scope: Local to Context
| Global Name: "Valve_Position"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
27 at: F2 Get Variable "Get CurrentRepeat"
| ObjectIndex: F16.27
| Declared Scope: Local to Context
| Global Name: "CurrentRepeat"
| ShowTitleBar: true
| ShowTerminals: true
| ShowIconTitle: true
```

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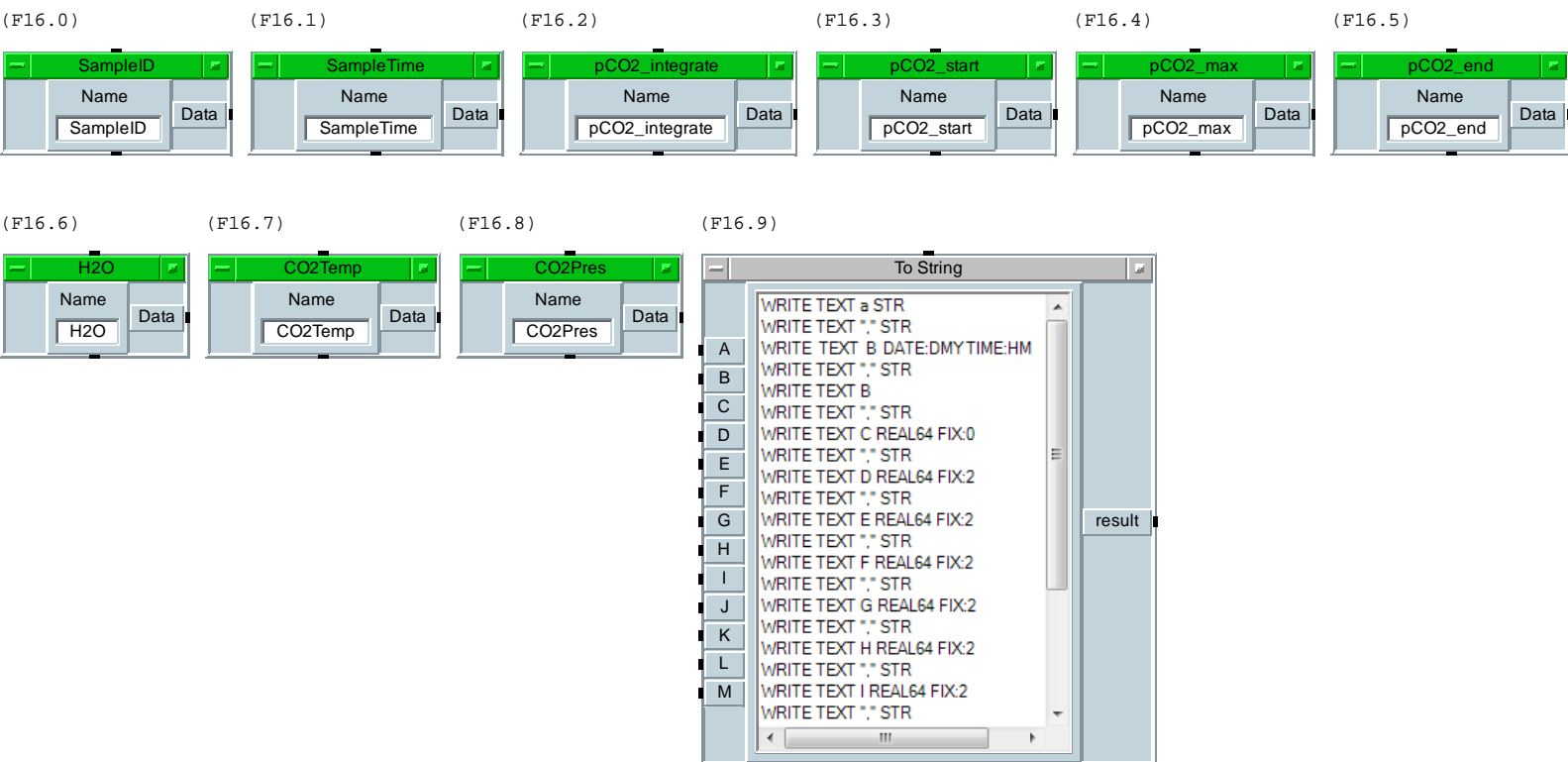
SaveData: Panel View



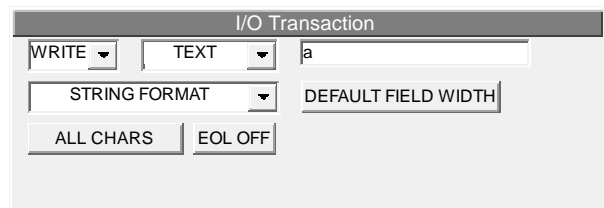
PanelView "SaveData" (w=844, h=202)

└ 13: Logging AlphaNumeric "Logging AlphaNumeric" (x=0, y=0) (w=780, h=190)

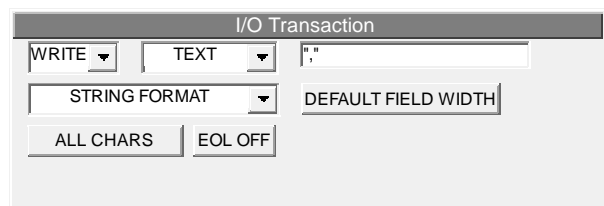
SaveData: Object Views



Transaction Name: To String, Transaction Number: 1



Transaction Name: To String, Transaction Number: 2



Transaction Name: To String, Transaction Number: 3

I/O Transaction

WRITE

TEXT

B

TIME STAMP FORMAT

DEFAULT FIELD WIDTH

Date & Time

DD/Month/YYYY

HH:MM:SS

24 HOUR

EOL OFF

Transaction Name: To String, Transaction Number: 4

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 5

I/O Transaction

WRITE

TEXT

B

DEFAULT FORMAT

EOL OFF

Transaction Name: To String, Transaction Number: 6

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 7

I/O Transaction

WRITE

TEXT

C

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 0

EOL OFF

Transaction Name: To String, Transaction Number: 8

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 9

I/O Transaction

WRITE

TEXT

D

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 10

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 11

I/O Transaction

WRITE

TEXT

E

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 12

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 13

I/O Transaction

WRITE

TEXT

F

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 14

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 15

I/O Transaction

WRITE

TEXT

G

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 16

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 17

I/O Transaction

WRITE

TEXT

H

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 18

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 19

I/O Transaction

WRITE

TEXT

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 20

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 21

I/O Transaction

WRITE

TEXT

REAL64 FORMAT

DEFAULT FIELD WIDTH

/-

FIXED

NUM FRACT DIGITS: 2

EOL OFF

Transaction Name: To String, Transaction Number: 22

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 23

I/O Transaction

WRITE

TEXT

k

INT16 FORMAT

DEFAULT FIELD WIDTH

/-

DEFAULT NUM DIGITS

EOL OFF

Transaction Name: To String, Transaction Number: 24

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 25

I/O Transaction

WRITE

TEXT

|

INT16 FORMAT

DEFAULT FIELD WIDTH

/-

DEFAULT NUM DIGITS

EOL OFF

Transaction Name: To String, Transaction Number: 26

I/O Transaction

WRITE

TEXT

,"

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 27

I/O Transaction

WRITE

TEXT

m

INT16 FORMAT

DEFAULT FIELD WIDTH

/-

DEFAULT NUM DIGITS

EOL ON

(F16.10)

To File

To File:

C:\TCO2\01-14-2009,DIC

☐ Clear File At PreRun & Open

WRITE TEXT a EOL

EXECUTE CLOSE

< Double-Click to Add Transaction >

A

File Name

Transaction Name: To File, Transaction Number: 1

I/O Transaction

WRITE

TEXT

a

DEFAULT FORMAT

EOL ON

Transaction Name: To File, Transaction Number: 2

I/O Transaction

EXECUTE

CLOSE

(F16.11)

DataFile

Name

DataFile

Data

(F16.12)

To String

WRITE TEXT a STR FW:13 RJ

WRITE TEXT * * STR

WRITE TEXT B DATE:DMY TIME:HMS:H24

WRITE TEXT * * STR

WRITE TEXT C REAL64 FIX:0 FW:6 RJ

WRITE TEXT * * STR

WRITE TEXT D REAL64 FIX:2 FW:6 RJ

WRITE TEXT * * STR

WRITE TEXT E REAL64 FIX:2 FW:6 RJ

WRITE TEXT * * STR

WRITE TEXT F REAL64 FIX:2 FW:6 RJ

WRITE TEXT * * STR

WRITE TEXT G REAL64 FIX:2 FW:6 RJ

WRITE TEXT * * STR

WRITE TEXT H REAL64 FIX:2 FW:6 RJ

WRITE TEXT * * STR

WRITE TEXT I REAL64 FIX:2 FW:6 RJ

WRITE TEXT * * STR

WRITE TEXT j REAL64 FIX:2

A

B

C

D

E

F

G

H

I

J

K

result

Transaction Name: To String, Transaction Number: 1

I/O Transaction

WRITE

TEXT

a

STRING FORMAT

FIELD WIDTH:13

RIGHT JUSTIFY

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 2

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 3

I/O Transaction

WRITE

TEXT

B

TIME STAMP FORMAT

DEFAULT FIELD WIDTH

Date & Time

DD/Month/YYYY

HH:MM:SS

24 HOUR

EOL OFF

Transaction Name: To String, Transaction Number: 4

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 5

I/O Transaction

WRITE

TEXT

C

REAL64 FORMAT

FIELD WIDTH:6

RIGHT JUSTIFY

/-

FIXED

NUM FRACT DIGITS:0

EOL OFF

Transaction Name: To String, Transaction Number: 6

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 7

I/O Transaction

WRITE

TEXT

D

REAL64 FORMAT

FIELD WIDTH:6

RIGHT JUSTIFY

/-

FIXED

NUM FRACT DIGITS:2

EOL OFF

Transaction Name: To String, Transaction Number: 8

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 9

I/O Transaction

WRITE

TEXT

E

REAL64 FORMAT

FIELD WIDTH:6

RIGHT JUSTIFY

/-

FIXED

NUM FRACT DIGITS:2

EOL OFF

Transaction Name: To String, Transaction Number: 10

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 11

I/O Transaction

WRITE

TEXT

F

REAL64 FORMAT

FIELD WIDTH:6

RIGHT JUSTIFY

/-

FIXED

NUM FRACT DIGITS:2

EOL OFF

Transaction Name: To String, Transaction Number: 12

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 13

I/O Transaction

WRITE

TEXT

G

REAL64 FORMAT

FIELD WIDTH:6

RIGHT JUSTIFY

/-

FIXED

NUM FRACT DIGITS:2

EOL OFF

Transaction Name: To String, Transaction Number: 14

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 15

I/O Transaction

WRITE

TEXT

H

REAL64 FORMAT

FIELD WIDTH:6

RIGHT JUSTIFY

/-

FIXED

NUM FRACT DIGITS:2

EOL OFF

Transaction Name: To String, Transaction Number: 16

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 17

I/O Transaction

WRITE

TEXT

REAL64 FORMAT

FIELD WIDTH:6

RIGHT JUSTIFY

/-

FIXED

NUM FRACT DIGITS:2

EOL OFF

Transaction Name: To String, Transaction Number: 18

I/O Transaction

WRITE

TEXT

" "

STRING FORMAT

DEFAULT FIELD WIDTH

ALL CHARS

EOL OFF

Transaction Name: To String, Transaction Number: 19

I/O Transaction			
WRITE	TEXT		
REAL64 FORMAT		DEFAULT FIELD WIDTH	
/-	FIXED	NUM FRACT DIGITS: 2	EOL OFF

Transaction Name: To String, Transaction Number: 20

I/O Transaction	
WRITE	TEXT
" "	
STRING FORMAT	DEFAULT FIELD WIDTH
ALL CHARS	EOL OFF

Transaction Name: To String, Transaction Number: 21

I/O Transaction			
WRITE	TEXT	k	
INT16 FORMAT	FIELD WIDTH: 6	RIGHT JUSTIFY	
/-	DEFAULT NUM DIGITS	EOL ON	

(F16.13)

Logging AlphaNumeric	

(F16.15)

TCO2Error	
Name	Data
TCO2Error	

(F16.18)

PeakAvg	
Name	Data
PeakAvg	

(F16.21)

PeakAvg = 0	
PeakAvg = 0	Result

(F16.22)

PeakRead = 0	
PeakRead = 0	Result

(F16.25)

TCO2Error = 2	
TCO2Error = -1	Result

(F16.26)

Get Valve_Position	
Name	Data
Valve_Position	

(F16.27)

Get CurrentRepeat	
Name	Data
CurrentRepeat	

Stop_Flow (F23): Detail View, Total Objects: 3

123456

Stop_Flow

1 Start

0 Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 2
WRITE BYTE 254
WRITE BYTE 11

3 Note Pad

Turn off relay #3
Turn on relay #4

123456

UserFunction "Stop_Flow"

0 at: B2 Direct I/O "Serial12 (@ 12)"

ObjectIndex: F23.0
Declared Scope: Local to Context
Transactions: 4 lines.

WRITE BYTE 254
WRITE BYTE 2
WRITE BYTE 254
WRITE BYTE 11

ShowTitleBar: true
ShowTerminals: true
ShowIconTitle: true

1 at: A2 Start "Start"

ObjectIndex: F23.1
Declared Scope: Local to Context
ShowTitleBar: false
ShowTerminals: false
ShowIconTitle: true

3 at: C5 Note Pad "Note Pad"

ObjectIndex: F23.3
Declared Scope: Local to Context
Note Contents: 2 lines.

Turn off relay #3
Turn on relay #4

ShowTitleBar: true
ShowTerminals: false
ShowIconTitle: true

Stop_Flow: Object Views

(F23.0)

Serial12 (@ 12)

WRITE BYTE 254
WRITE BYTE 2
WRITE BYTE 254
WRITE BYTE 11

Transaction Name: Serial12 (@ 12), Transaction Number: 1

I/O Transaction

WRITE

BYTE

254

Transaction Name: Serial12 (@ 12), Transaction Number: 2

I/O Transaction

WRITE

BYTE

2

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Transaction Name: Serial12 (@ 12), Transaction Number: 3

I/O Transaction		
WRITE	BYTE	254

Transaction Name: Serial12 (@ 12), Transaction Number: 4

I/O Transaction		
WRITE	BYTE	11

(F23.1) (F23.3)

Start

Note Pad
Turn off relay #3 Turn on relay #4

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