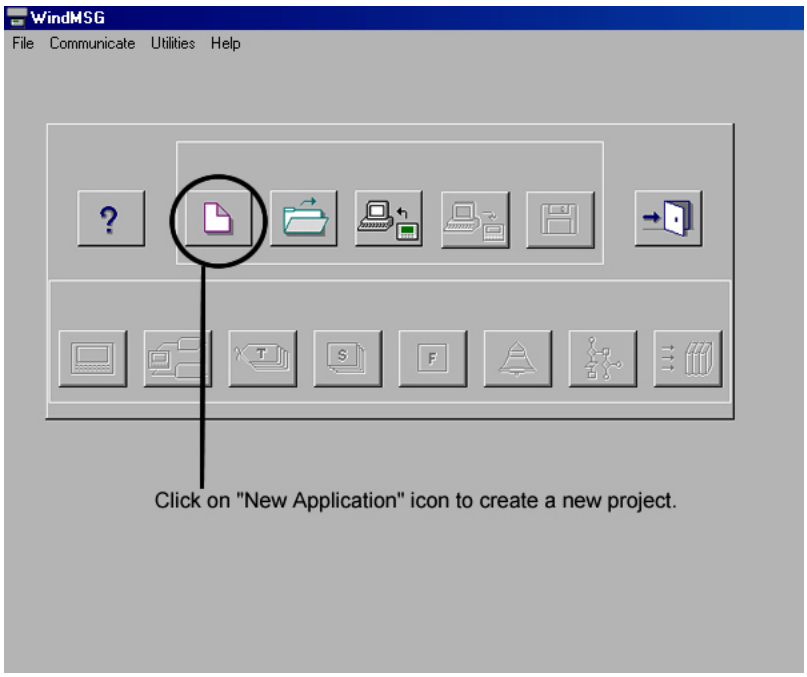
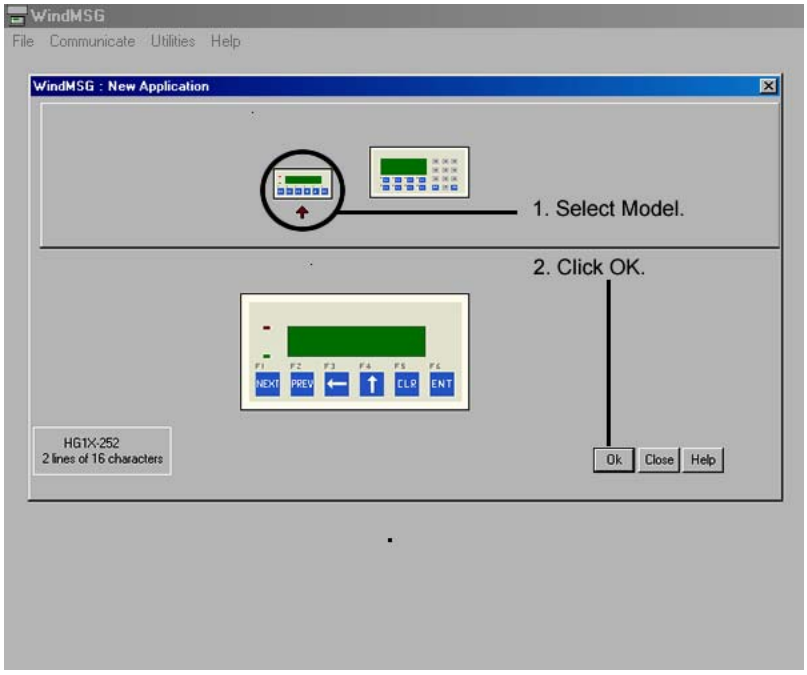
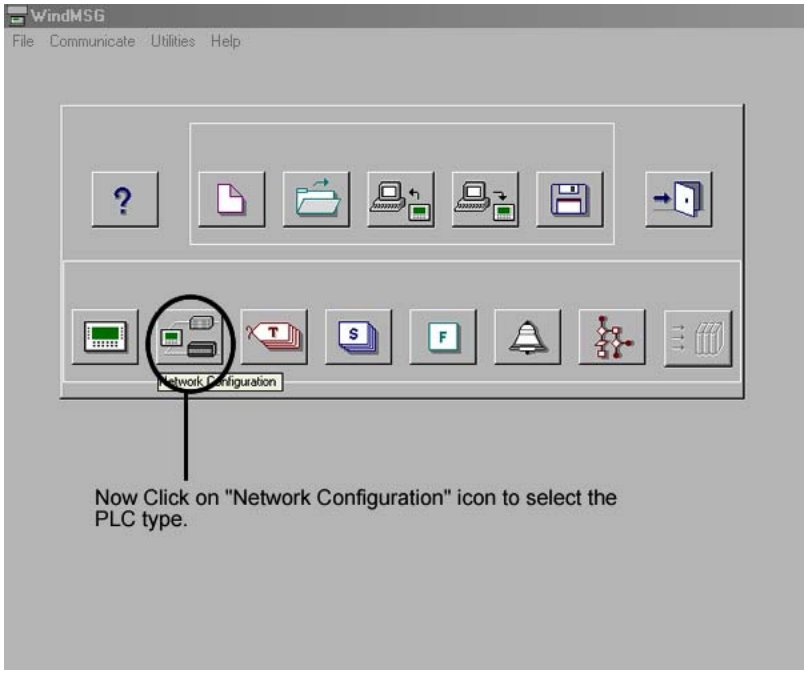
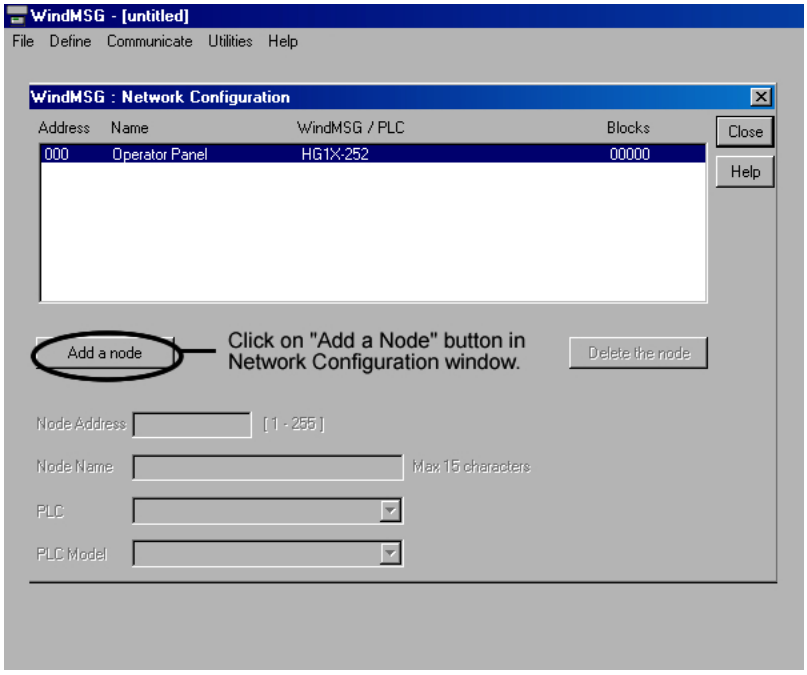
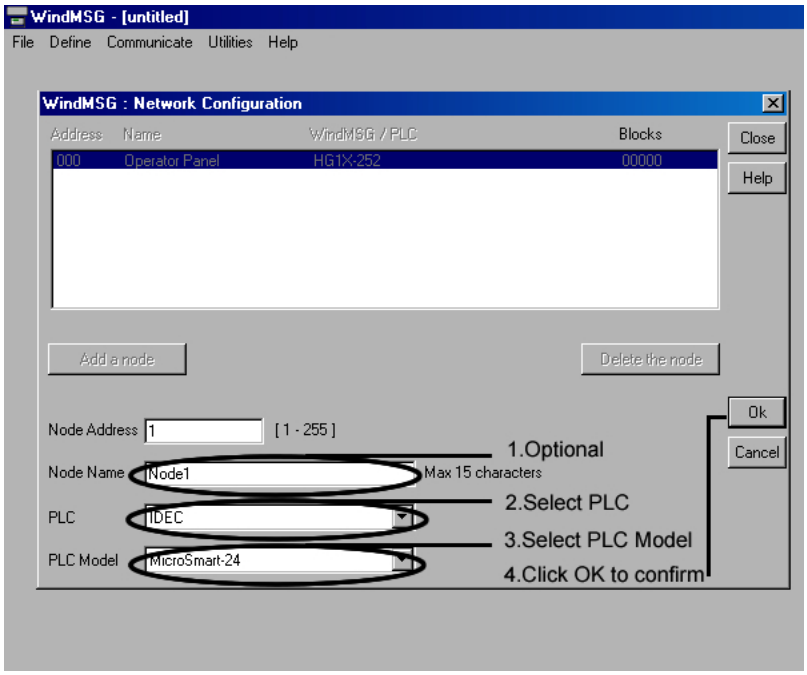
WindMSG Tutorial #1 (Getting Started)

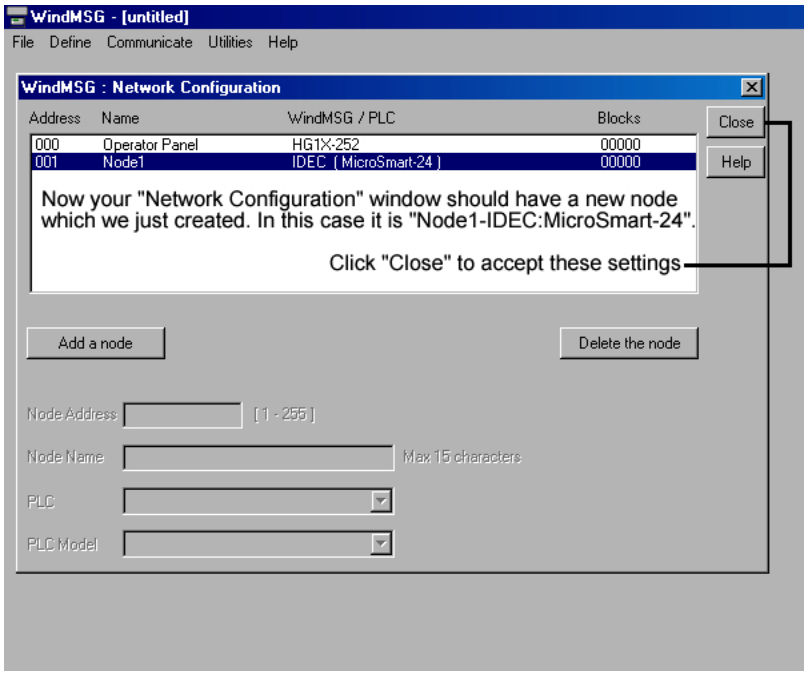


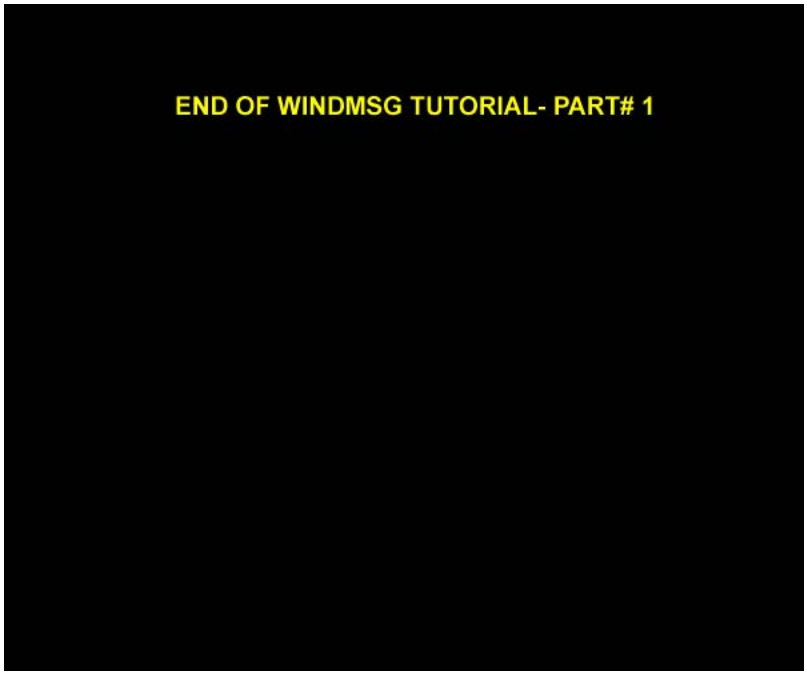

WindMSG
File Communicate Utilities Help
WindMSG : New Application
1. Select Model.
2. Click OK.
NEXT PREV CLR ENT
HG1X-252
2 lines of 16 characters
Ok Close Help


WindMSG
File Communicate Utilities Help
Network Configuration
Now Click on "Network Configuration" icon to select the PLC type.

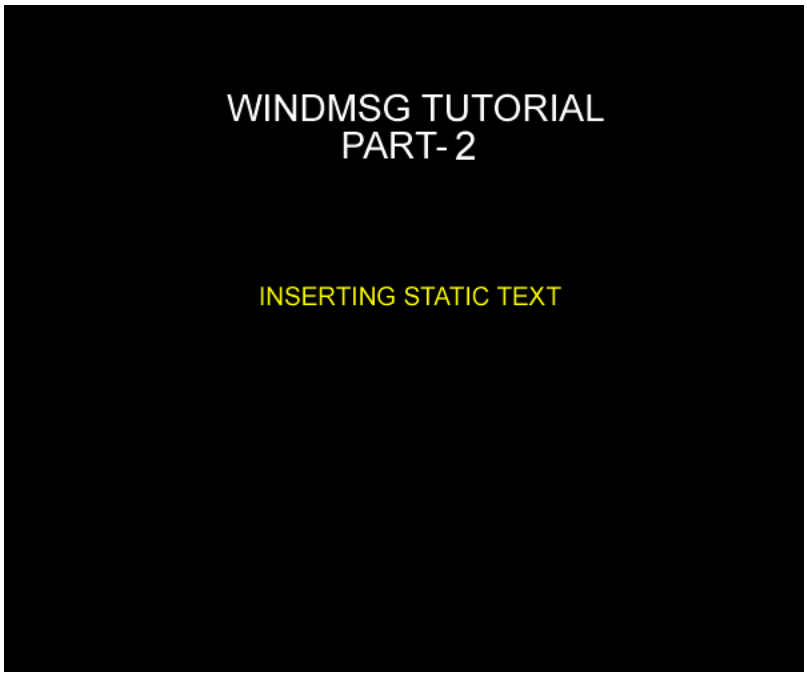

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Network Configuration
Address Name WindMSG / PLC Blocks
000 Operator Panel HG1X-252 00000
Close
Help
Add a node
Click on "Add a Node" button in Network Configuration window.
Delete the node
Node Address [1 - 255]
Node Name Max 15 characters
PLC
PLC Model

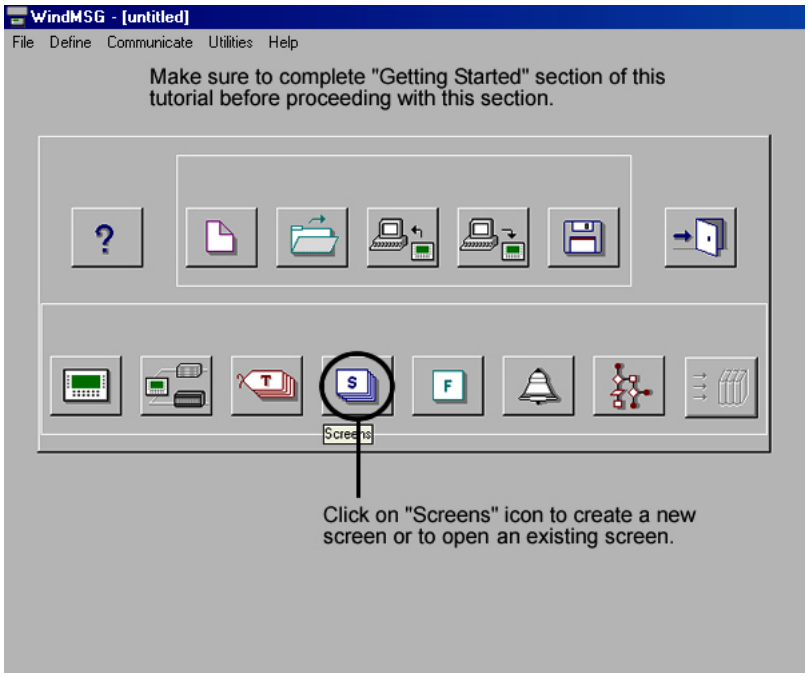

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Network Configuration
Address Name WindMSG / PLC Blocks
000 Operator Panel HG1X-252 00000
Close
Help
Add a node
Delete the node
Node Address 1 [1 - 255]
Node Name Node1 Max 15 characters
PLC IDEC
PLC Model MicroSmart-24
Ok
Cancel
1.Optional
2.Select PLC
3.Select PLC Model
4.Click OK to confirm

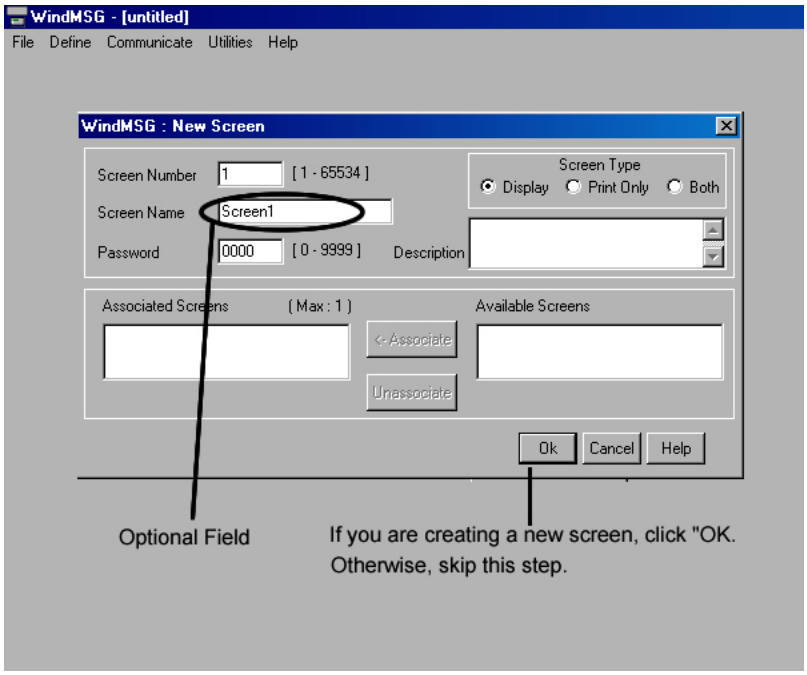

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Network Configuration
Address Name WindMSG / PLC Blocks
000 Operator Panel HG1X-252 00000
001 Node1 IDEC (MicroSmart-24) 00000
Close
Help
Now your "Network Configuration" window should have a new node which we just created. In this case it is "Node1-IDEC:MicroSmart-24".
Click "Close" to accept these settings
Add a node
Delete the node
Node Address
[1 - 255]
Node Name
Max 15 characters
PLC
PLC Model

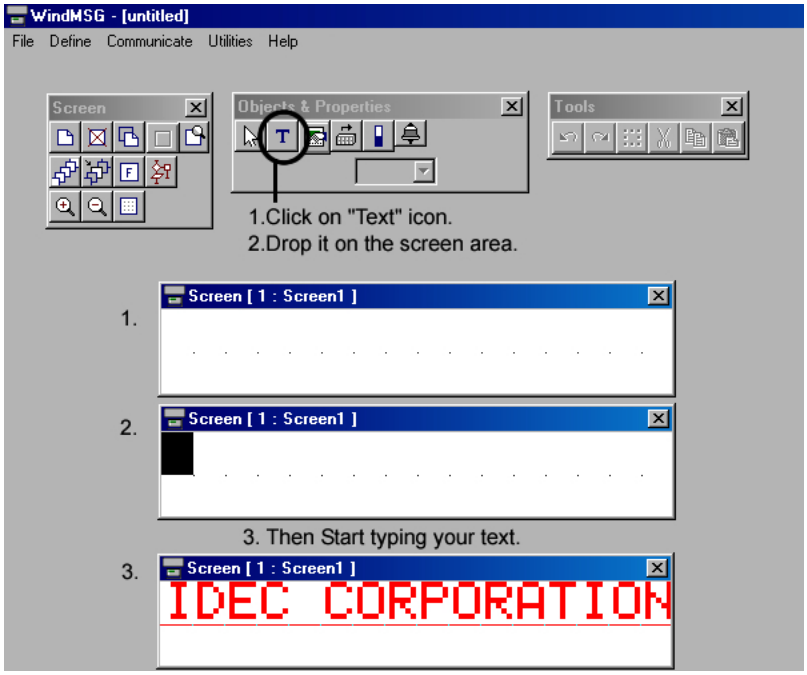

END OF WINDMSG TUTORIAL- PART# 1

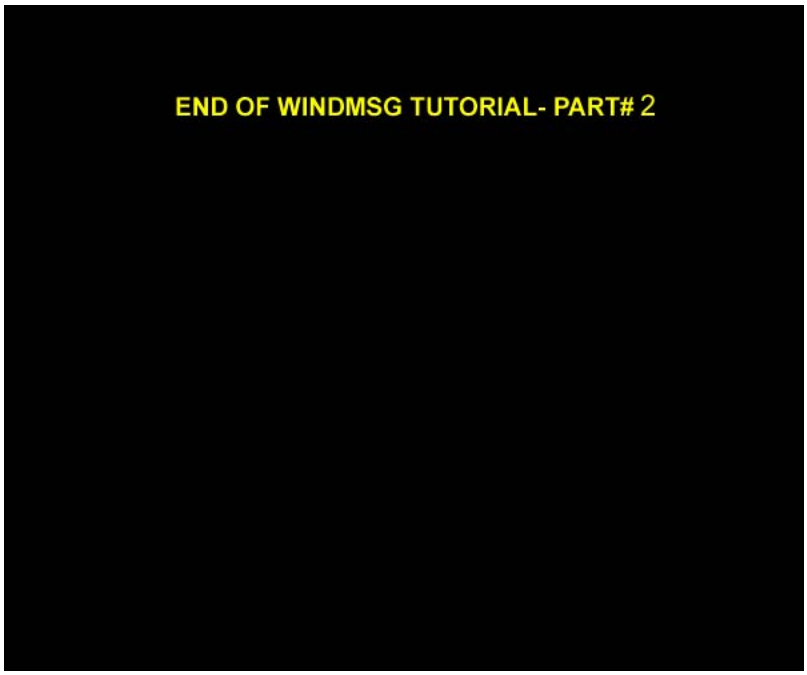
WindMSG Tutorial #2 (Inserting Static Text)



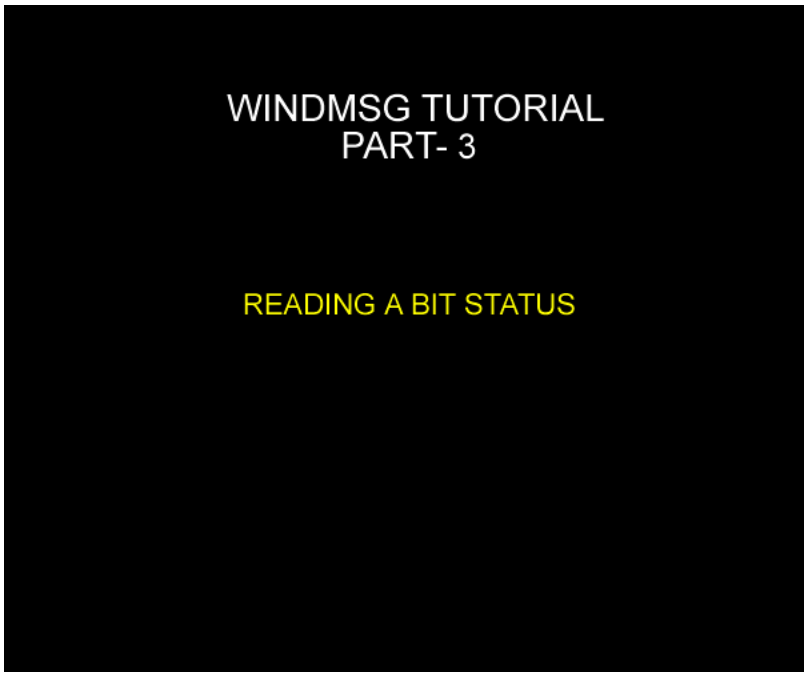


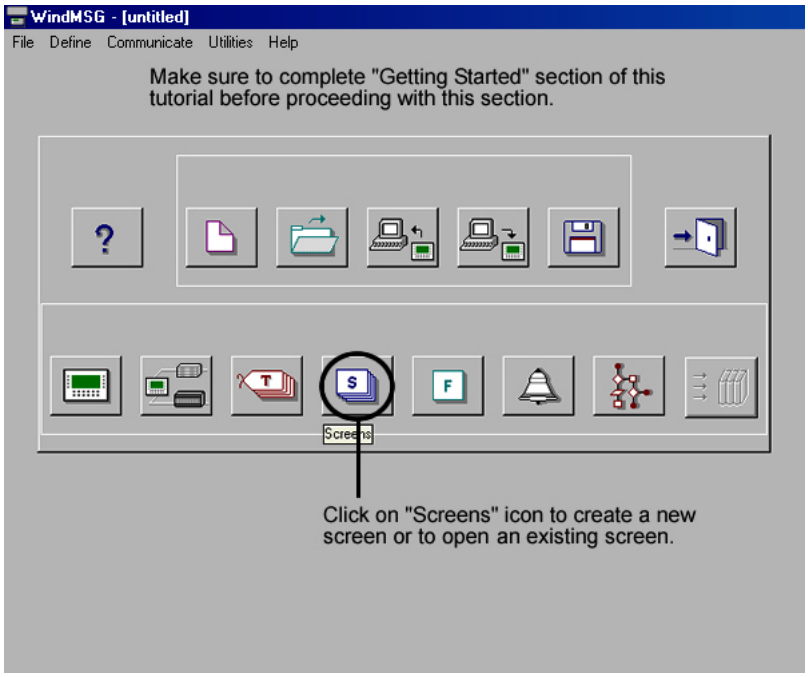

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : New Screen
Screen Number
1
[1 - 65534]
Screen Type
Display
Print Only
Both
Screen Name
Screen1
Password
0000
[0 - 9999]
Description
Associated Screens
[Max : 1]
Available Screens
<- Associate
Unassociate
Ok
Cancel
Help
Optional Field
If you are creating a new screen, click "OK.
Otherwise, skip this step.

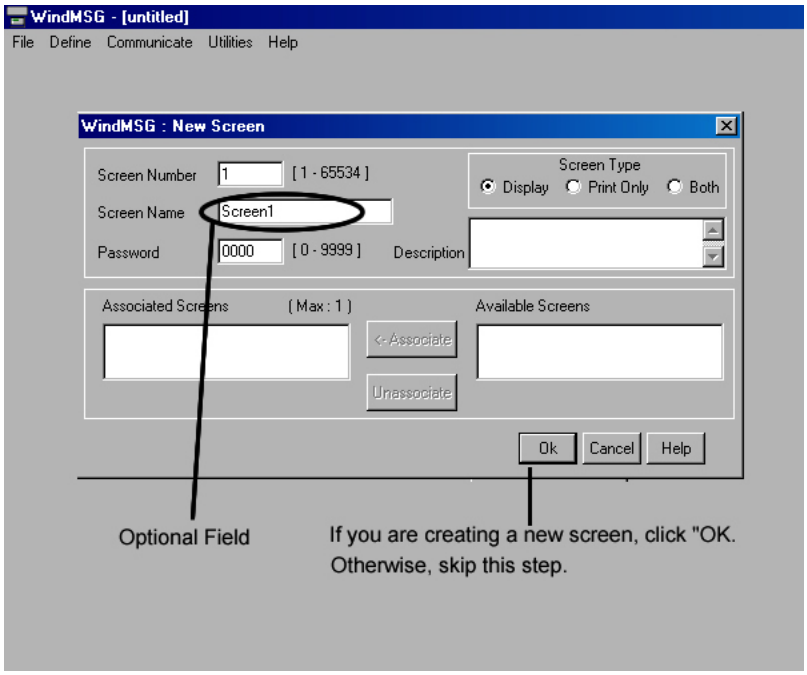

WindMSG - [untitled]
File Define Communicate Utilities Help
Screen
Objects & Properties
Tools
1.Click on "Text" icon.
2.Drop it on the screen area.
1.
Screen [1 : Screen1]
2.
Screen [1 : Screen1]
3. Then Start typing your text.
3.
Screen [1 : Screen1]
IDEC CORPORATION

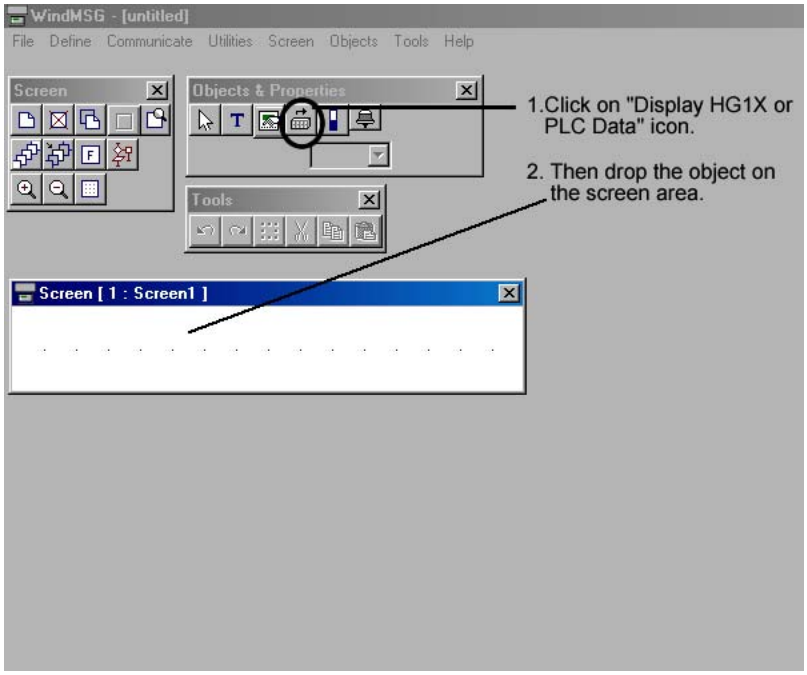

END OF WINDMSG TUTORIAL- PART# 2

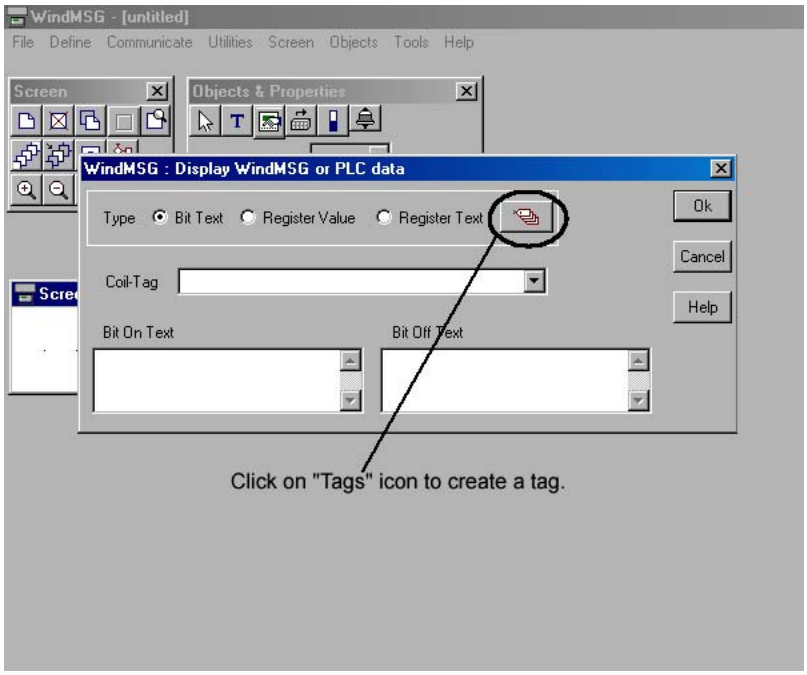
WindMSG Tutorial #3 (Reading a Bit Status)

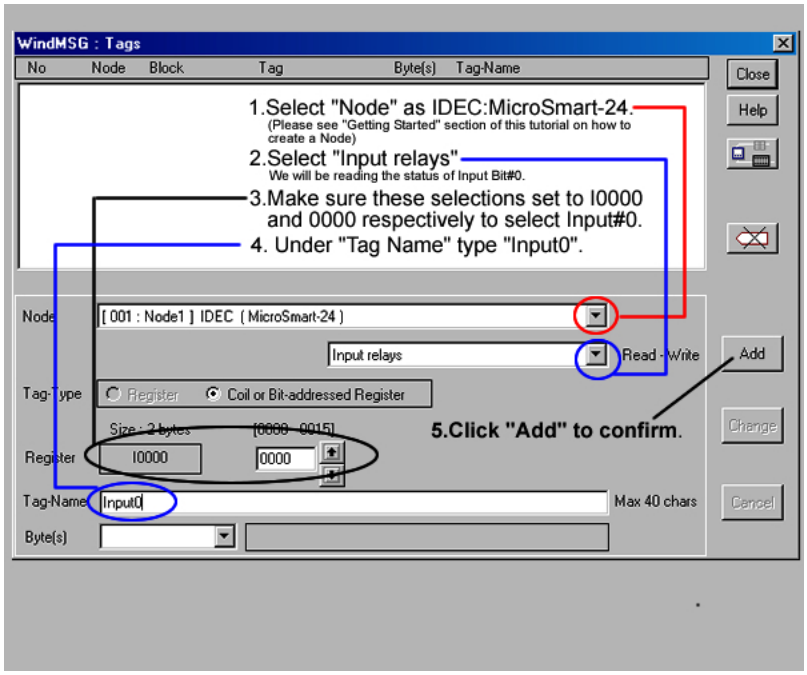


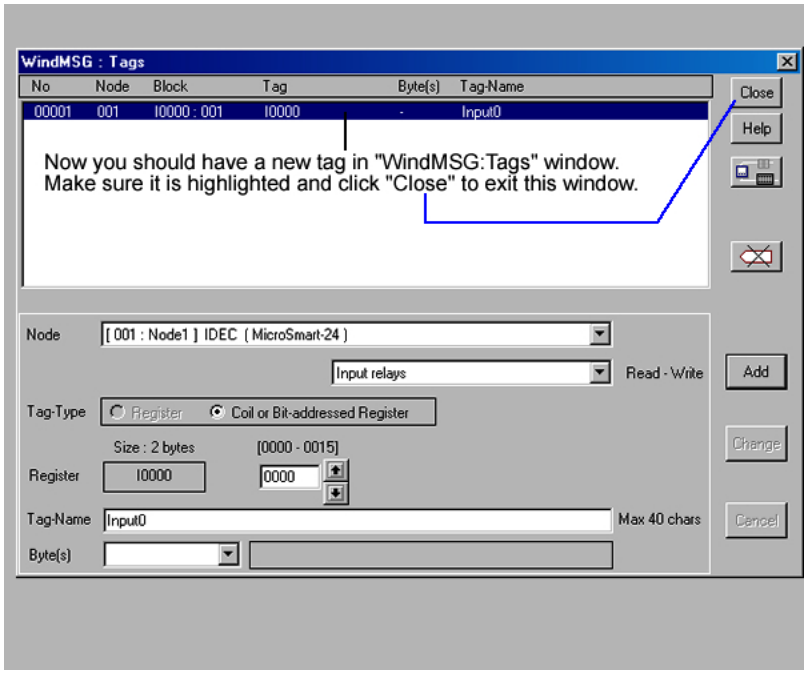


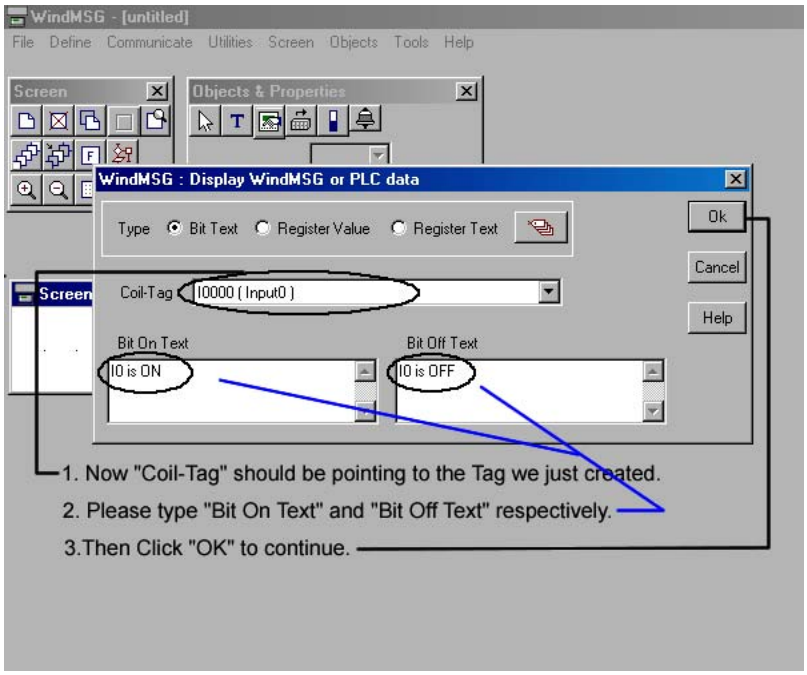

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : New Screen
Screen Number
1
[1 - 65534]
Screen Type
Display
Print Only
Both
Screen Name
Screen1
Password
0000
[0 - 9999]
Description
Associated Screens
(Max : 1)
Available Screens
<- Associate
Unassociate
Ok
Cancel
Help
Optional Field
If you are creating a new screen, click "OK. Otherwise, skip this step.

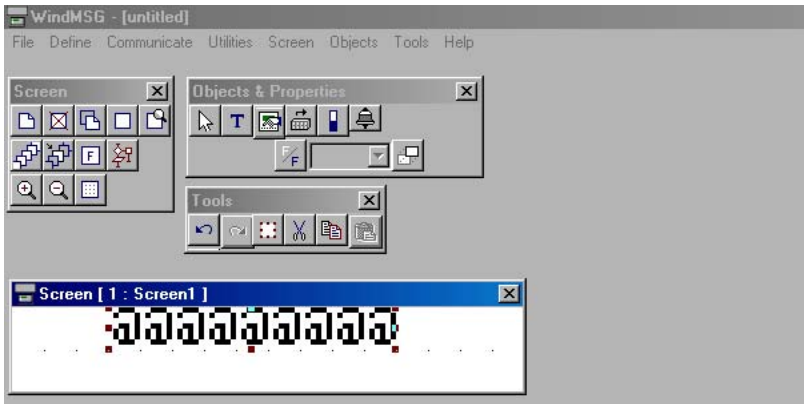

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
1.Click on "Display HG1X or PLC Data" icon.
2. Then drop the object on the screen area.
Screen [1 : Screen1]


WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
WindMSG : Display WindMSG or PLC data
Type Bit Text Register Value Register Text
Ok
Cancel
Help
Coil-Tag
Bit On Text
Bit Off Text
Click on "Tags" icon to create a tag.


WindMSG : Tags
No Node Block Tag Byte(s) Tag-Name
Close
Help
1.Select "Node" as IDEC:MicroSmart-24.
(Please see "Getting Started" section of this tutorial on how to create a Node)
2.Select "Input relays"
We will be reading the status of Input Bit#0.
3.Make sure these selections set to I0000 and 0000 respectively to select Input#0.
4. Under "Tag Name" type "Input0".
Node
[001 : Node1] IDEC (MicroSmart-24)
Input relays
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Size : 2 bytes
[0000 - 0015]
5.Click "Add" to confirm.
Change
Register
I0000
0000
Tag-Name
Input0
Max 40 chars
Cancel
Byte(s)


WindMSG : Tags
No Node Block Tag Byte(s) Tag-Name
00001 001 I0000 : 001 I0000 - Input0
Close
Help
Now you should have a new tag in "WindMSG:Tags" window.
Make sure it is highlighted and click "Close" to exit this window.
Node
[001 : Node1] IDEC (MicroSmart-24)
Input relays
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Change
Size : 2 bytes
[0000 - 0015]
Register
I0000
0000
Tag-Name
Input0
Max 40 chars
Cancel
Byte(s)

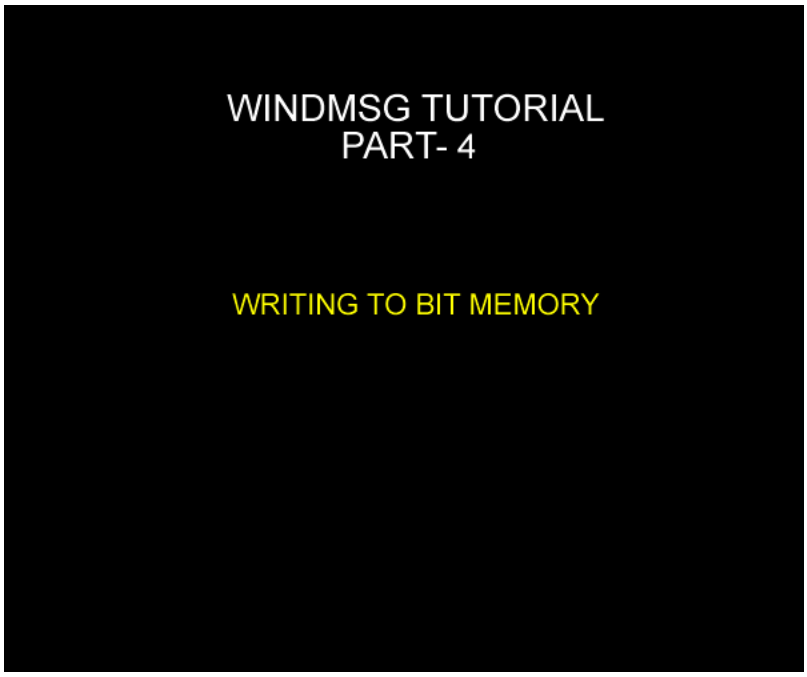

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
WindMSG : Display WindMSG or PLC data
Type
Bit Text
Register Value
Register Text
Ok
Cancel
Help
Coil-Tag
I0000 (Input0)
Bit On Text
Bit Off Text
I0 is ON
I0 is OFF
1. Now "Coil-Tag" should be pointing to the Tag we just created.
2. Please type "Bit On Text" and "Bit Off Text" respectively.
3.Then Click "OK" to continue.

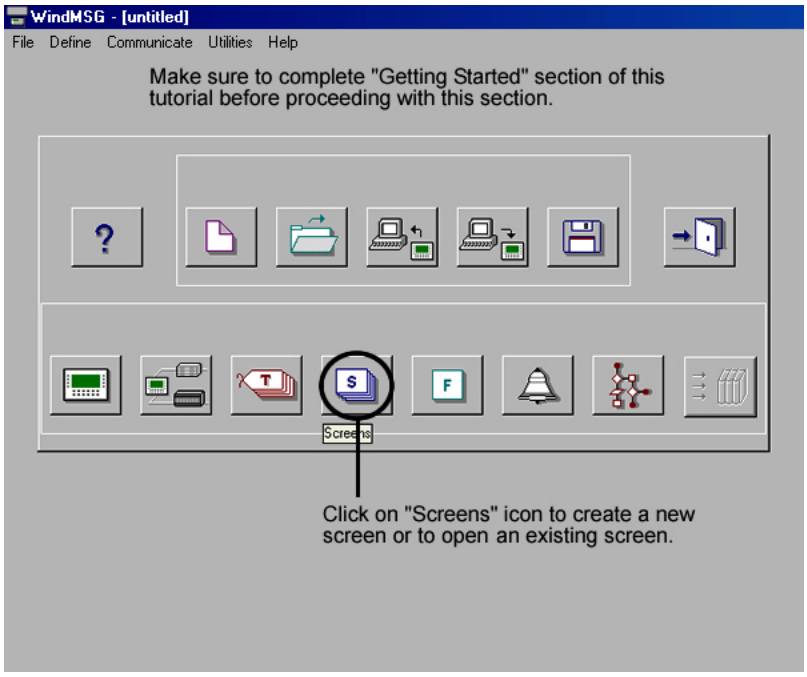


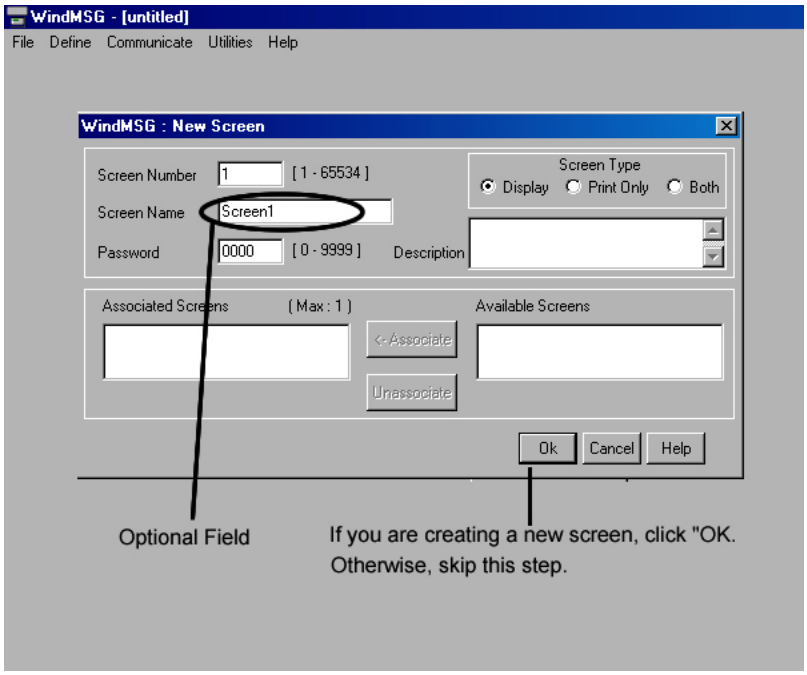
Now your screen area should look like the image above. Please download the project to HG1X screen and, turn ON/OFF Input#0 of IDEC MicroSmart PLC. You will notice text on the display changing depending on the status of I0.

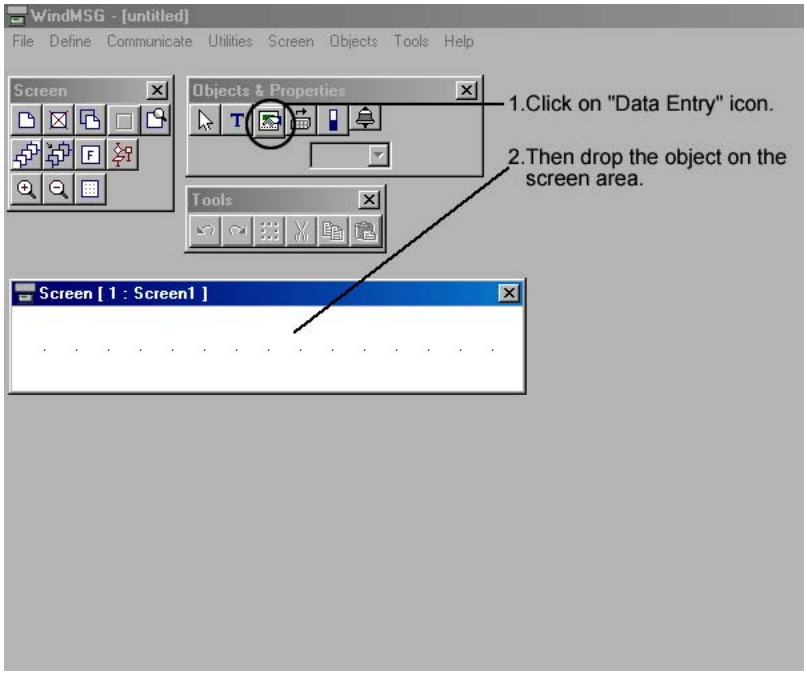
This concludes the tutorial on "Reading a Bit Status".

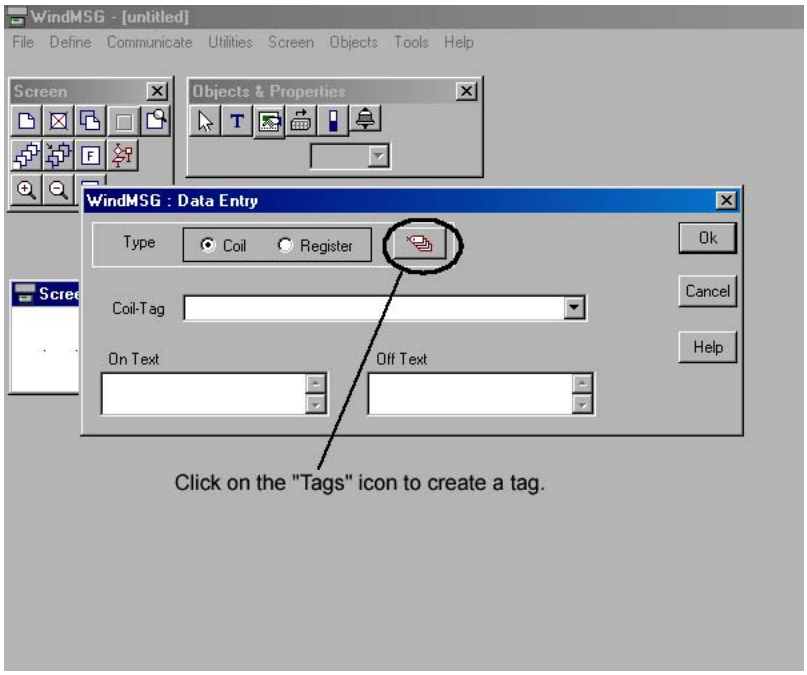
WindMSG Tutorial #4 (Writing to Bit Memory)

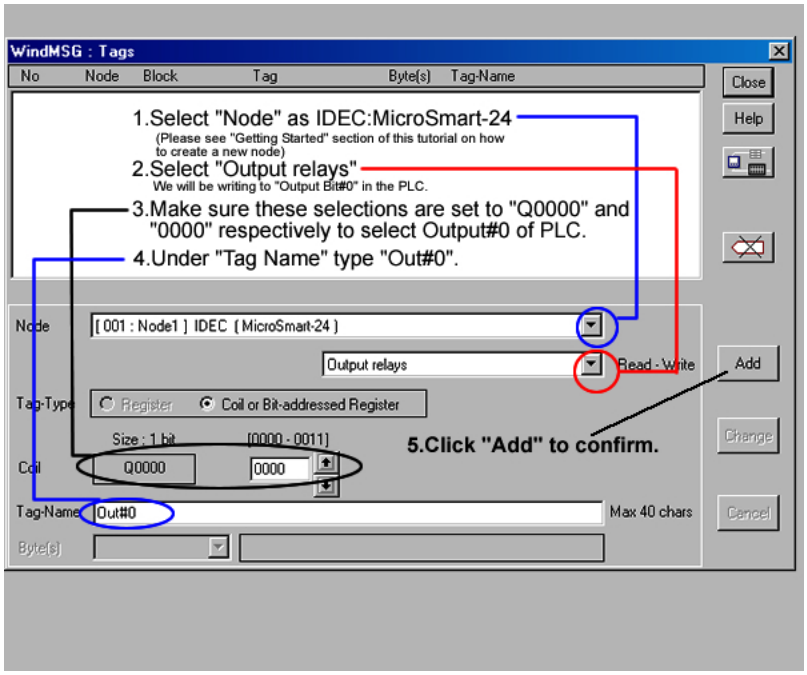


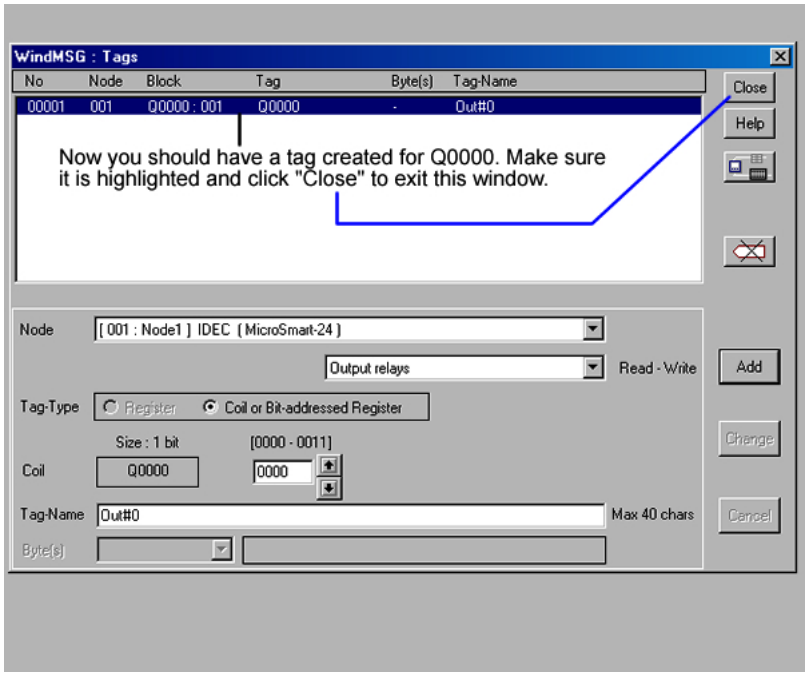


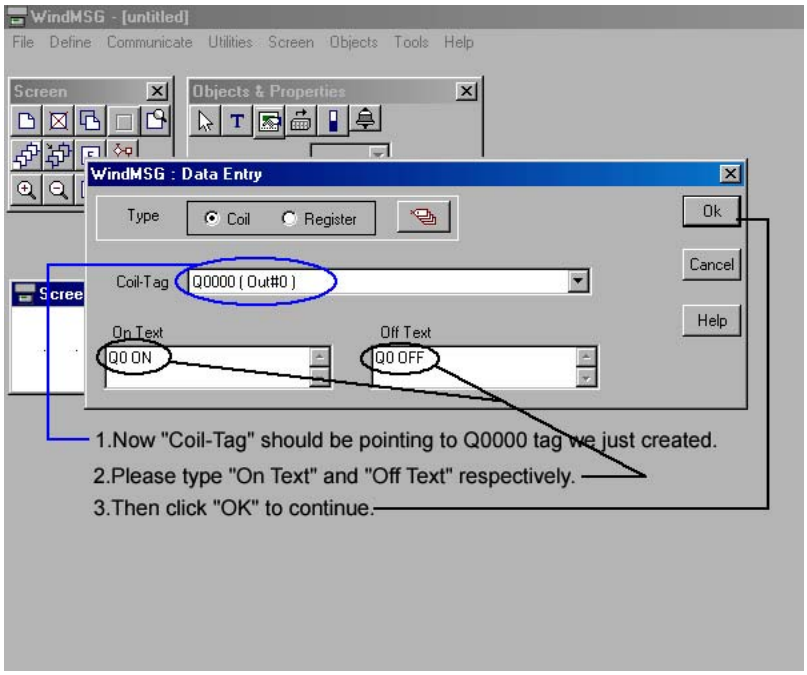

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : New Screen
Screen Number
1
[1 - 65534]
Screen Type
Display
Print Only
Both
Screen Name
Screen1
Password
0000
[0 - 9999]
Description
Associated Screens
(Max : 1)
Available Screens
<- Associate
Unassociate
Ok
Cancel
Help
Optional Field
If you are creating a new screen, click "OK. Otherwise, skip this step.

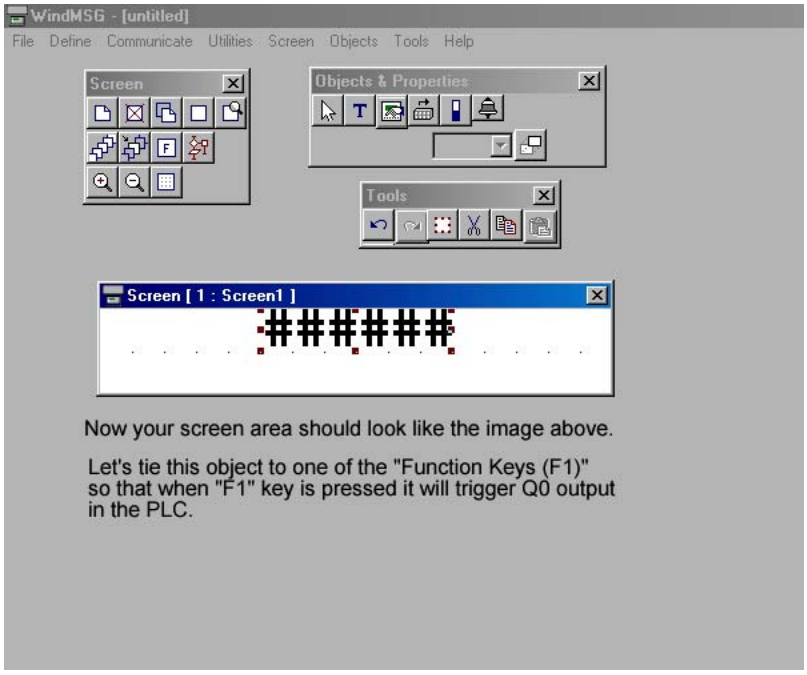

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
1.Click on "Data Entry" icon.
2.Then drop the object on the screen area.
Screen [1 : Screen1]

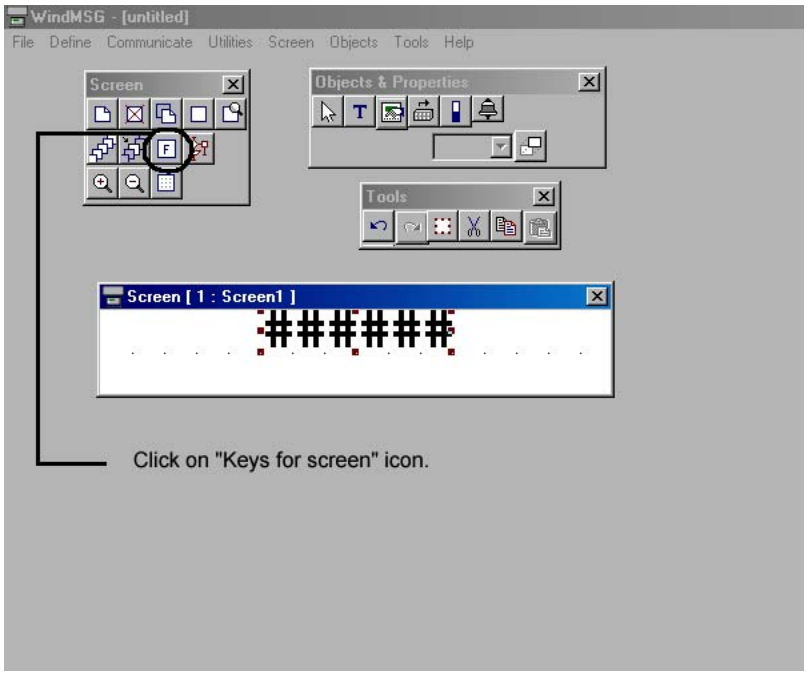

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
WindMSG : Data Entry
Type
Coil
Register
Ok
Cancel
Help
Coil-Tag
On Text
Off Text
Click on the "Tags" icon to create a tag.

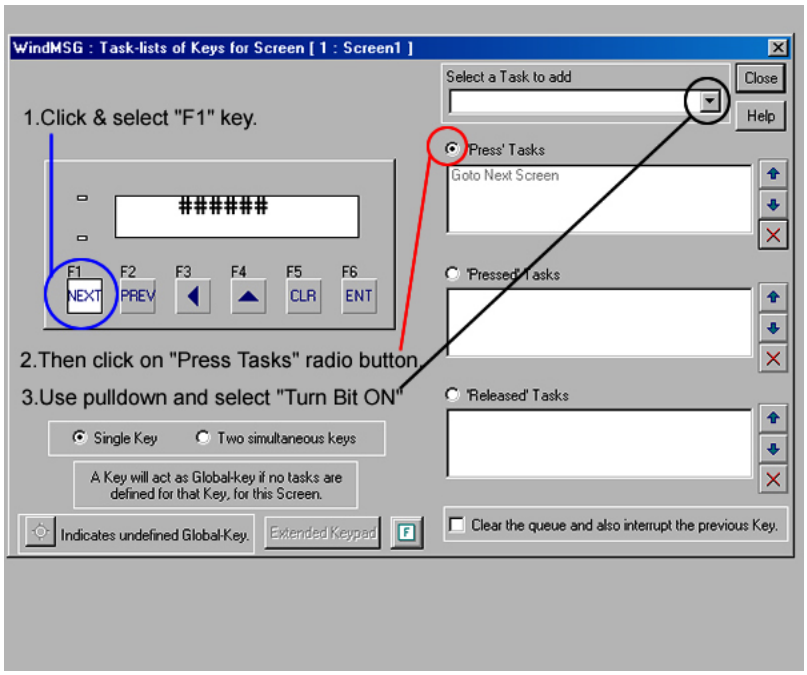

WindMSG : Tags
No Node Block Tag Byte(s) Tag-Name
Close
Help
1.Select "Node" as IDEC:MicroSmart-24
(Please see "Getting Started" section of this tutorial on how to create a new node)
2.Select "Output relays"
We will be writing to "Output Bit#0" in the PLC.
3.Make sure these selections are set to "Q0000" and "0000" respectively to select Output#0 of PLC.
4.Under "Tag Name" type "Out#0".
Node
[001 : Node1] IDEC (MicroSmart-24)
Output relays
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Size : 1 bit
[0000 - 0011]
5.Click "Add" to confirm.
Change
Coil
Q0000
0000
Tag-Name
Out#0
Max 40 chars
Cancel
Byte(s)

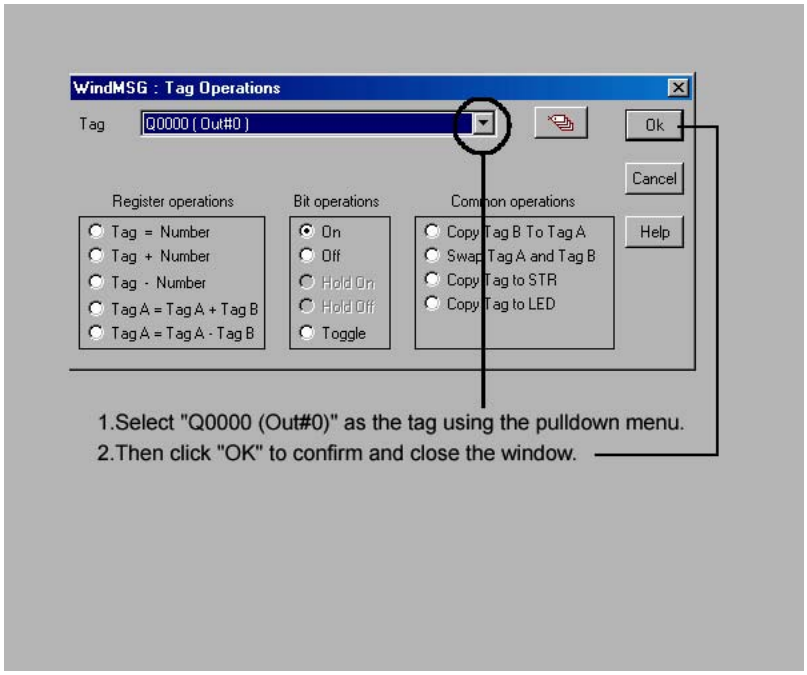

WindMSG : Tags
No
Node
Block
Tag
Byte(s)
Tag-Name
00001
001
Q0000 : 001
Q0000
-
Out#0
Close
Help
Now you should have a tag created for Q0000. Make sure it is highlighted and click "Close" to exit this window.
Node
[001 : Node1] IDEC (MicroSmart-24)
Output relays
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Size : 1 bit
[0000 - 0011]
Change
Coil
Q0000
0000
Tag-Name
Out#0
Max 40 chars
Cancel
Byte(s)

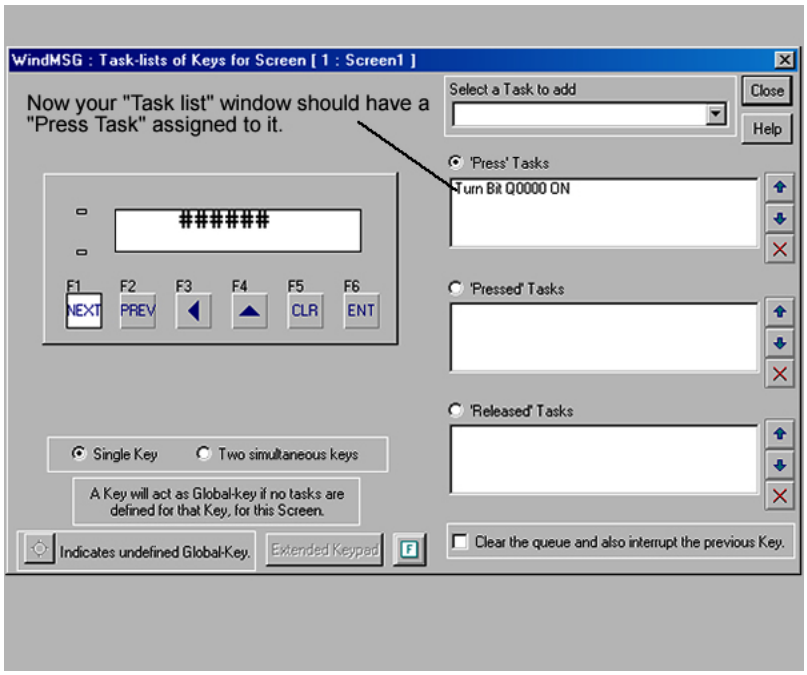

WindMSG - [untitled]
File
Define
Communicate
Utilities
Screen
Objects
Tools
Help
Screen
Objects & Properties
WindMSG : Data Entry
Type
Coil
Register
Ok
Cancel
Help
Coil-Tag
Q0000 (Out#0)
On Text
Q0 ON
Off Text
Q0 OFF
1.Now "Coil-Tag" should be pointing to Q0000 tag we just created.
2.Please type "On Text" and "Off Text" respectively.
3.Then click "OK" to continue.

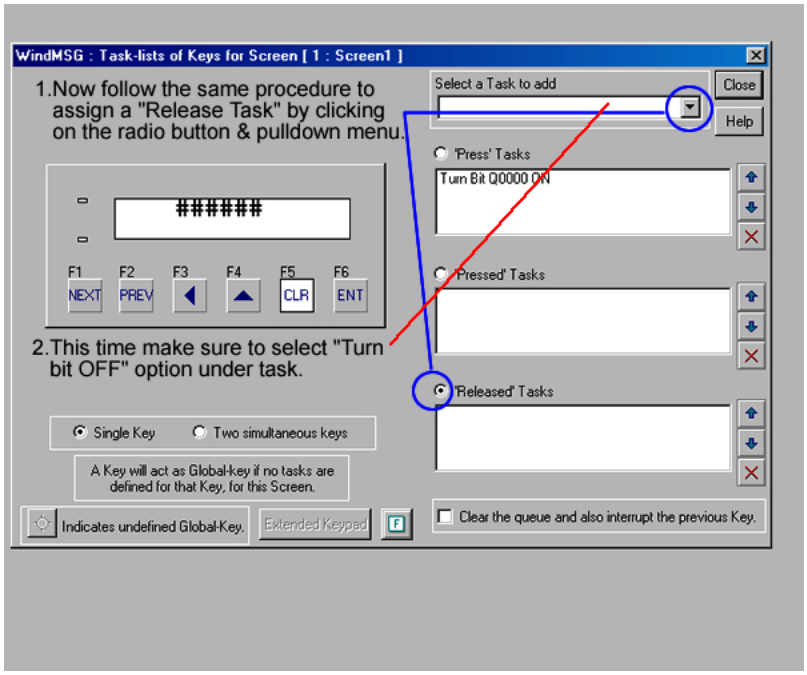

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
Screen [1 : Screen1]
######
Now your screen area should look like the image above.
Let's tie this object to one of the "Function Keys (F1)" so that when "F1" key is pressed it will trigger Q0 output in the PLC.

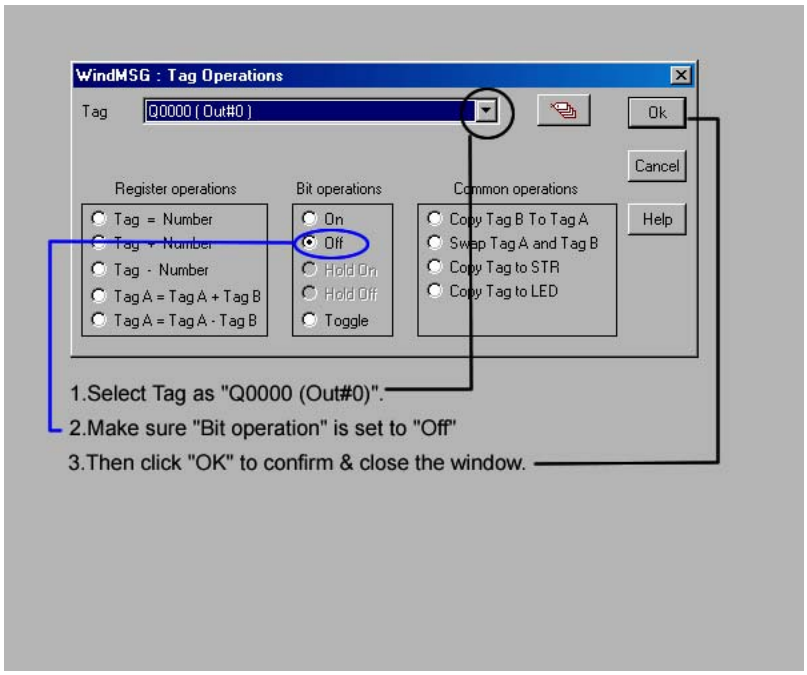

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
Screen [1 : Screen1]
######
Click on "Keys for screen" icon.

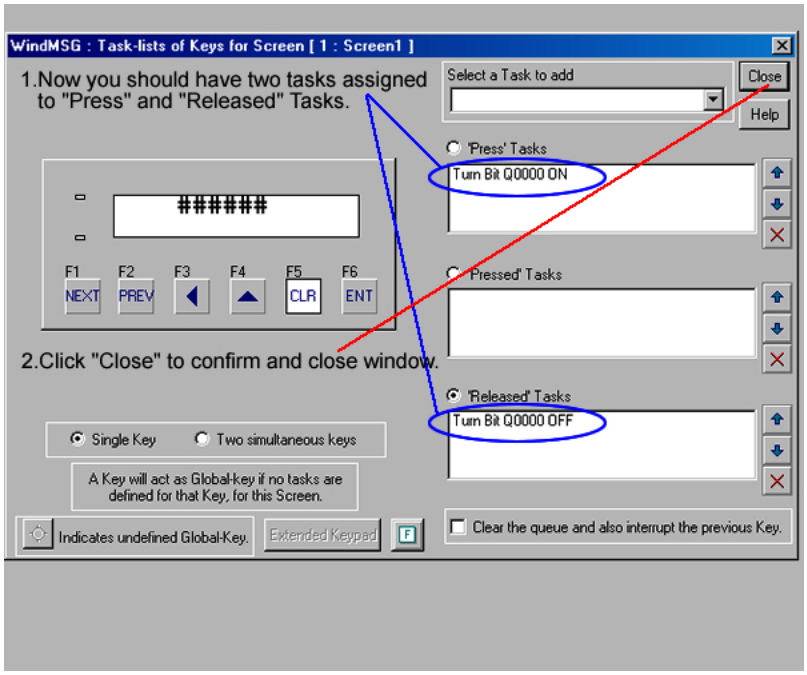

WindMSG : Task-lists of Keys for Screen [1 : Screen1]
Select a Task to add
Close
Help
1.Click & select "F1" key.
'Press' Tasks
Goto Next Screen
######
F1
NEXT
F2
PREV
F3
F4
F5
CLR
F6
ENT
'Pressed' Tasks
2.Then click on "Press Tasks" radio button.
3.Use pulldown and select "Turn Bit ON"
'Released' Tasks
Single Key
Two simultaneous keys
A Key will act as Global-key if no tasks are defined for that Key, for this Screen.
Indicates undefined Global-Key.
Extended Keypad
Clear the queue and also interrupt the previous Key.

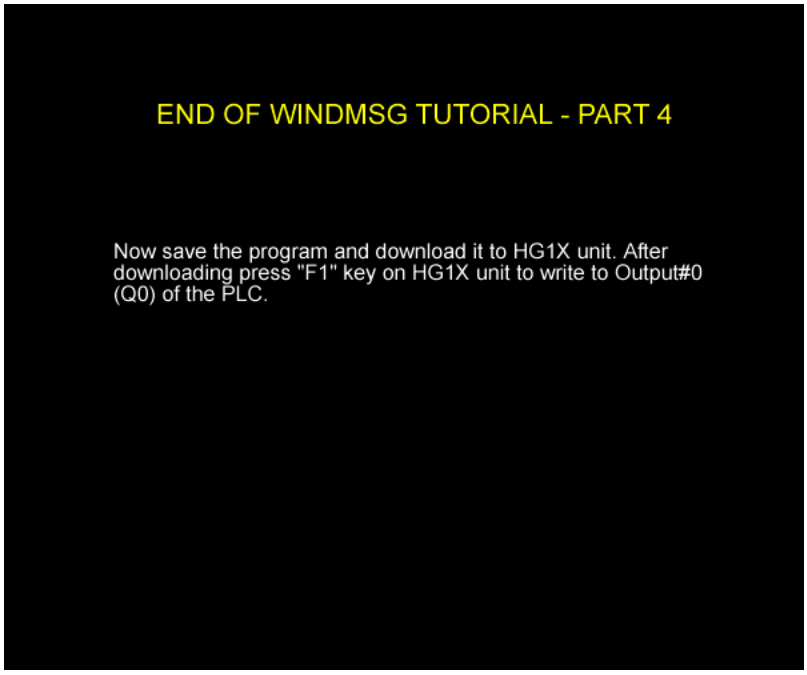

WindMSG : Tag Operations
Tag
Q0000 (Out#0)
Ok
Cancel
Help
Register operations
Tag = Number
Tag + Number
Tag - Number
Tag A = Tag A + Tag B
Tag A = Tag A - Tag B
Bit operations
On
Off
Hold On
Hold Off
Toggle
Common operations
Copy Tag B To Tag A
Swap Tag A and Tag B
Copy Tag to STR
Copy Tag to LED
1.Select "Q0000 (Out#0)" as the tag using the pulldown menu.
2.Then click "OK" to confirm and close the window.


WindMSG : Task-lists of Keys for Screen [1 : Screen1]
Now your "Task list" window should have a "Press Task" assigned to it.
Select a Task to add
Close
Help
'Press' Tasks
Turn Bit Q0000 ON
######
F1 NEXT
F2 PREV
F3
F4
F5 CLR
F6 ENT
'Pressed' Tasks
'Released' Tasks
Single Key
Two simultaneous keys
A Key will act as Global-key if no tasks are defined for that Key, for this Screen.
Indicates undefined Global-Key.
Extended Keypad
Clear the queue and also interrupt the previous Key.

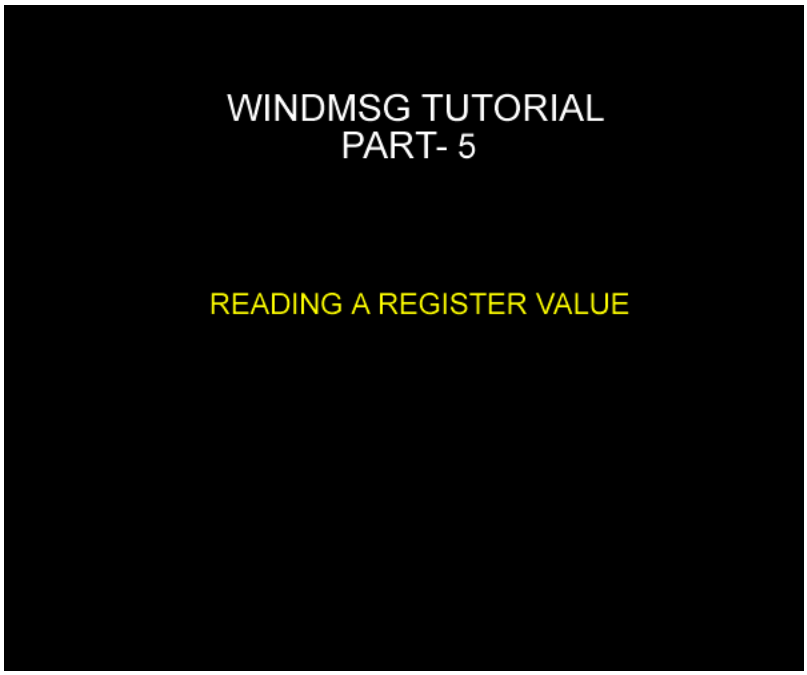

WindMSG : Task-lists of Keys for Screen [1 : Screen1]
1.Now follow the same procedure to assign a "Release Task" by clicking on the radio button & pulldown menu.
Select a Task to add
Close
Help
'Press' Tasks
Turn Bit Q0000 ON
######
F1 NEXT
F2 PREV
F3
F4
F5 CLR
F6 ENT
'Pressed' Tasks
2.This time make sure to select "Turn bit OFF" option under task.
'Released' Tasks
Single Key
Two simultaneous keys
A Key will act as Global-key if no tasks are defined for that Key, for this Screen.
Indicates undefined Global-Key.
Extended Keypad
Clear the queue and also interrupt the previous Key.

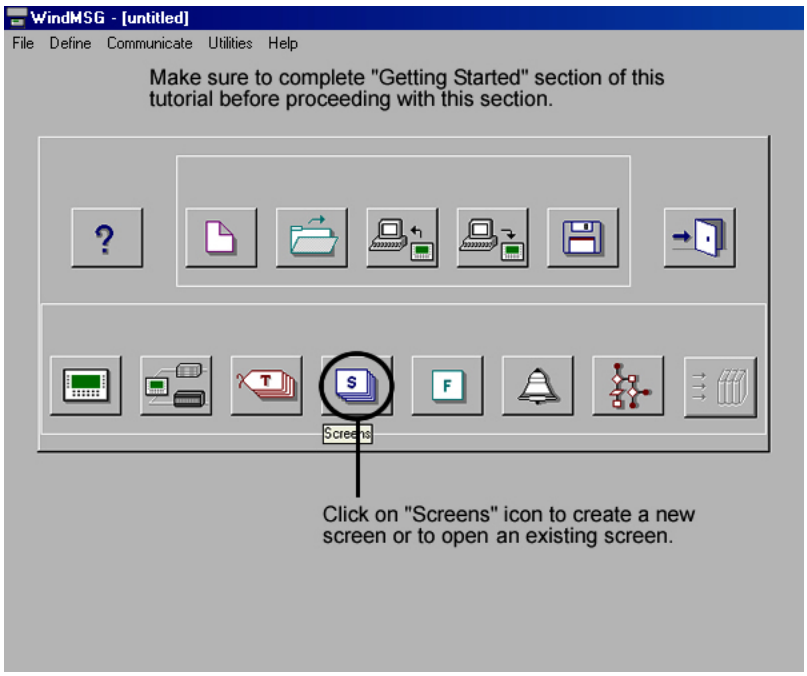

WindMSG : Tag Operations
Tag
Q0000 (Out#0)
Ok
Cancel
Help
Register operations
Tag = Number
Tag + Number
Tag - Number
Tag A = Tag A + Tag B
Tag A = Tag A - Tag B
Bit operations
On
Off
Hold On
Hold Off
Toggle
Common operations
Copy Tag B To Tag A
Swap Tag A and Tag B
Copy Tag to STR
Copy Tag to LED
1.Select Tag as "Q0000 (Out#0)".
2.Make sure "Bit operation" is set to "Off"
3.Then click "OK" to confirm & close the window.

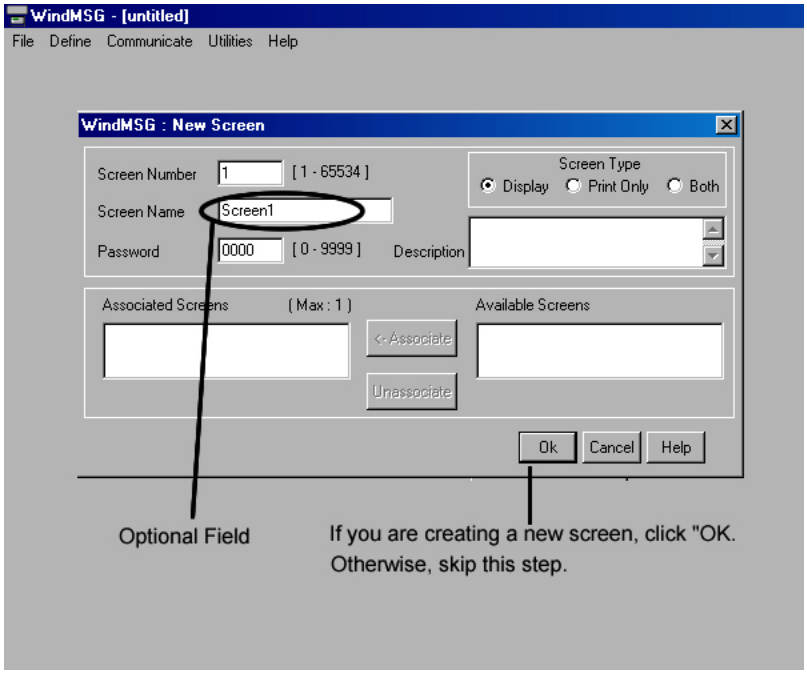

WindMSG : Task-lists of Keys for Screen [1 : Screen1]
1.Now you should have two tasks assigned to "Press" and "Released" Tasks.
Select a Task to add
Close
Help
'Press' Tasks
Turn Bit Q0000 ON
######
F1 NEXT
F2 PREV
F3
F4
F5 CLR
F6 ENT
'Pressed' Tasks
2.Click "Close" to confirm and close window.
'Released' Tasks
Turn Bit Q0000 OFF
Single Key
Two simultaneous keys
A Key will act as Global-key if no tasks are defined for that Key, for this Screen.
Indicates undefined Global-Key.
Extended Keypad
Clear the queue and also interrupt the previous Key.

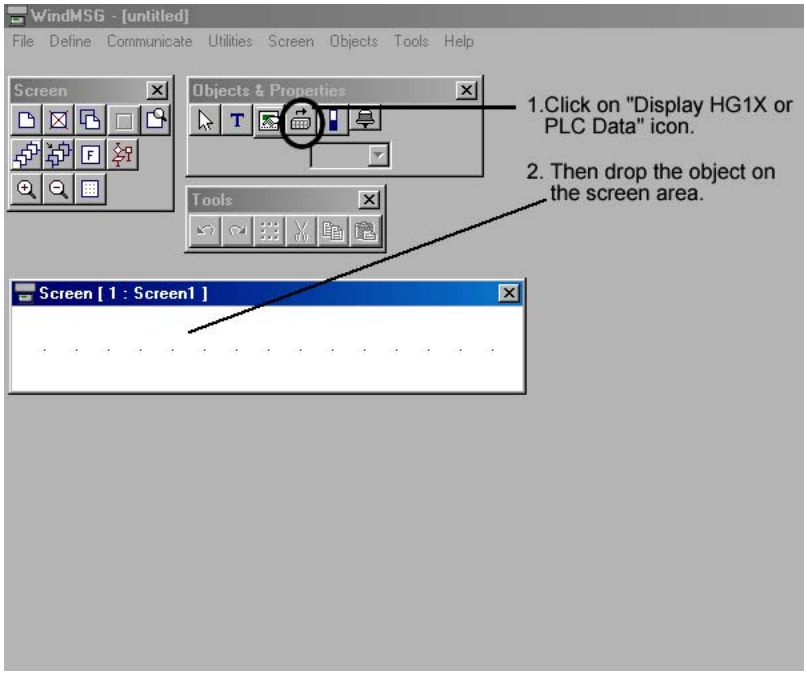

END OF WINDMSG TUTORIAL - PART 4
Now save the program and download it to HG1X unit. After downloading press "F1" key on HG1X unit to write to Output#0 (Q0) of the PLC.

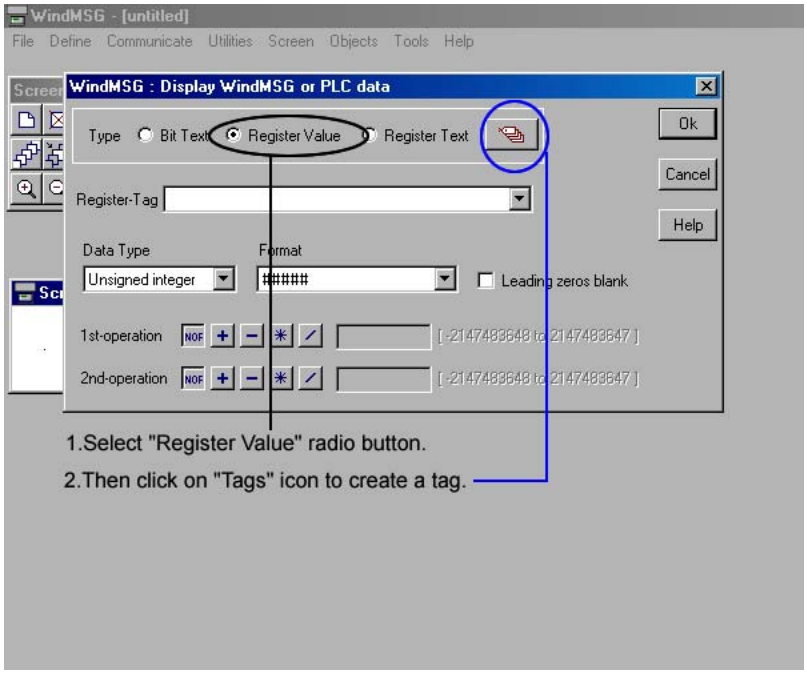
WindMSG Tutorial #5 (Reading a Register Value)

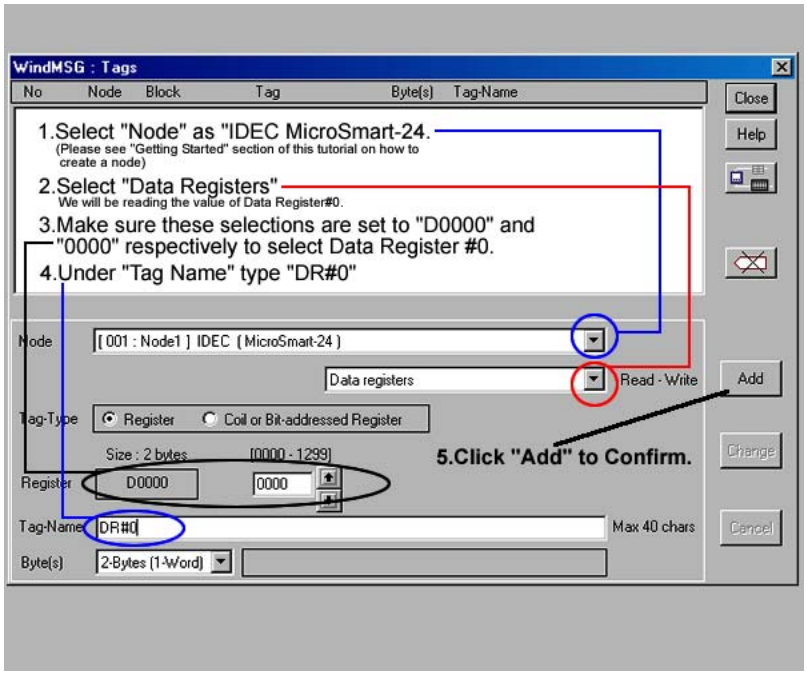


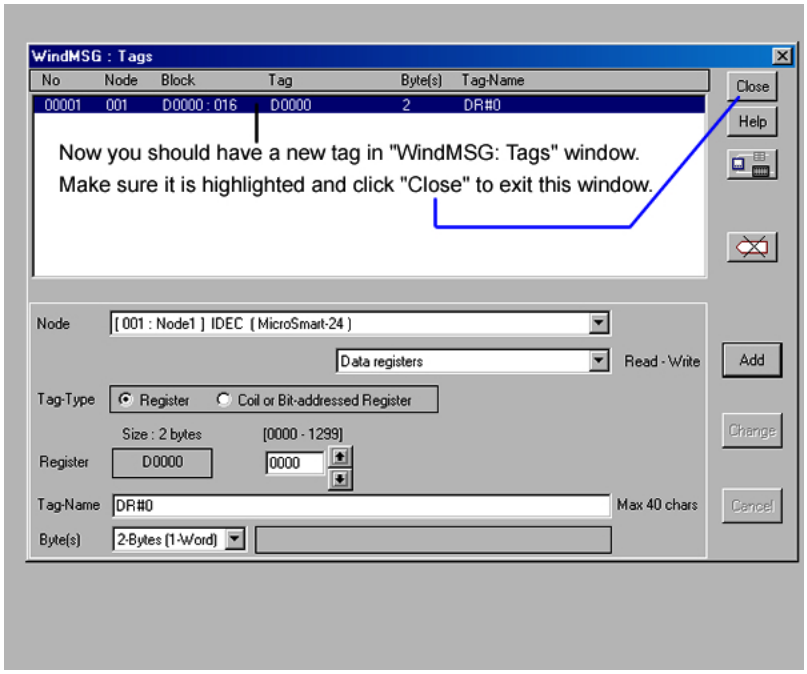


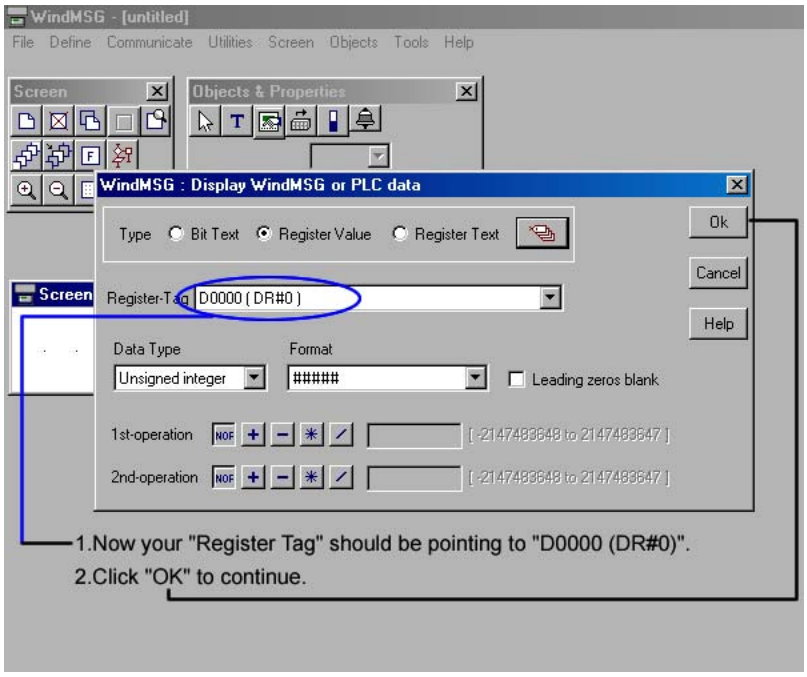

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : New Screen
Screen Number
1
[1 - 65534]
Screen Type
Display
Print Only
Both
Screen Name
Screen1
Password
0000
[0 - 9999]
Description
Associated Screens
(Max : 1)
Available Screens
<- Associate
Unassociate
Ok
Cancel
Help
Optional Field
If you are creating a new screen, click "OK.
Otherwise, skip this step.

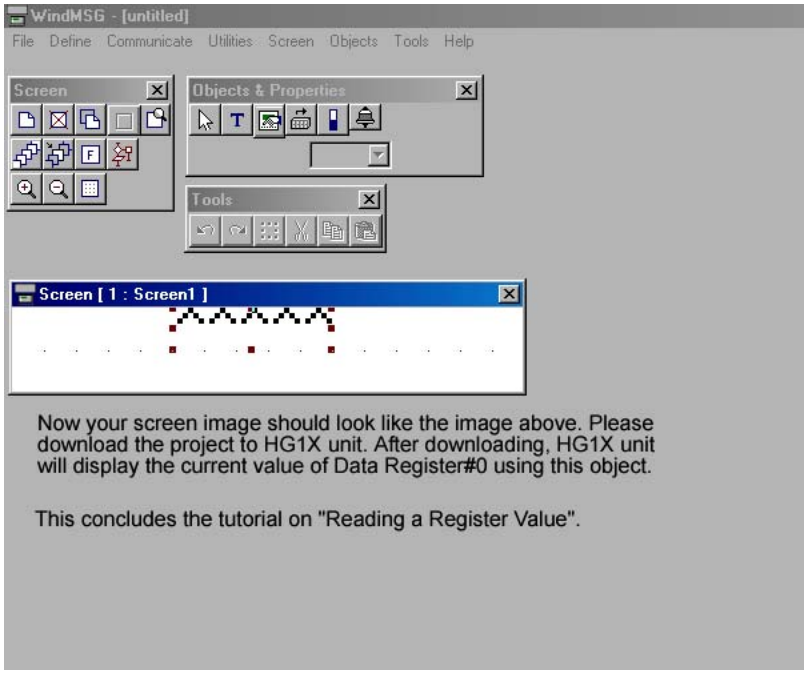

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
Screen [1 : Screen1]
1.Click on "Display HG1X or PLC Data" icon.
2. Then drop the object on the screen area.


WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
WindMSG : Display WindMSG or PLC data
Type Bit Text Register Value Register Text
Ok
Cancel
Help
Register-Tag
Data Type
Format
Unsigned integer
#####
Leading zeros blank
1st-operation
2nd-operation
[-2147483648 to 2147483647]
1.Select "Register Value" radio button.
2.Then click on "Tags" icon to create a tag.


WindMSG : Tags
No Node Block Tag Byte(s) Tag-Name
Close
Help
1.Select "Node" as "IDEC MicroSmart-24.
(Please see "Getting Started" section of this tutorial on how to create a node)
2.Select "Data Registers"
We will be reading the value of Data Register#0.
3.Make sure these selections are set to "D0000" and "0000" respectively to select Data Register #0.
4.Under "Tag Name" type "DR#0"
Node
[001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Size : 2 bytes
[0000 - 1299]
5.Click "Add" to Confirm.
Change
Register
D0000
0000
Tag-Name
DR#0
Max 40 chars
Cancel
Byte(s)
2-Bytes (1-Word)


WindMSG : Tags
No
Node
Block
Tag
Byte(s)
Tag-Name
00001
001
D0000 : 016
D0000
2
DR#0
Close
Help
Now you should have a new tag in "WindMSG: Tags" window.
Make sure it is highlighted and click "Close" to exit this window.
Node
[001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Change
Size : 2 bytes
[0000 - 1299]
Register
D0000
0000
Tag-Name
DR#0
Max 40 chars
Cancel
Byte(s)
2-Bytes (1-Word)

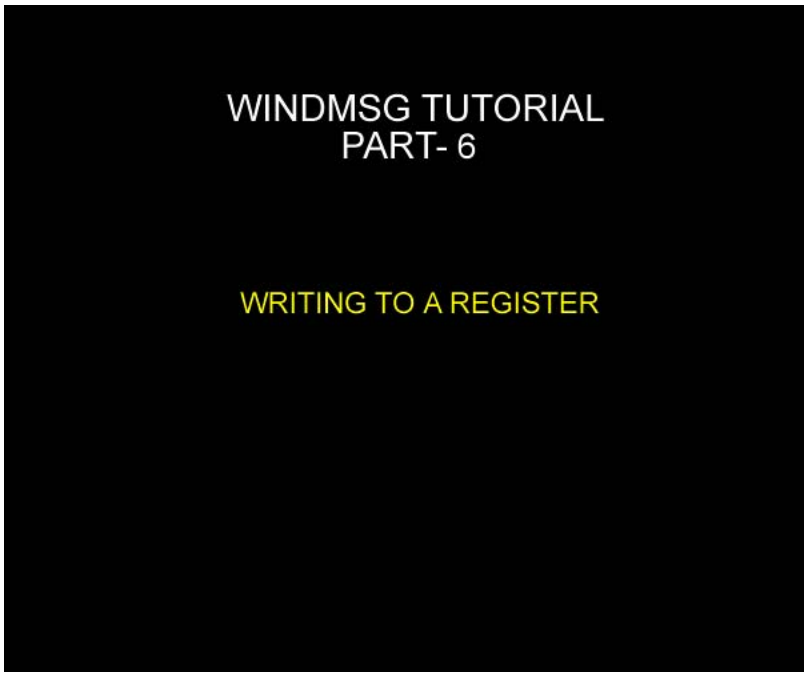

WindMSG - [untitled]
File
Define
Communicate
Utilities
Screen
Objects
Tools
Help
Screen
Objects & Properties
WindMSG : Display WindMSG or PLC data
Type
Bit Text
Register Value
Register Text
Ok
Cancel
Help
Register-Tag
D0000 (DR#0)
Data Type
Format
Unsigned integer
#####
Leading zeros blank
1st-operation
2nd-operation
[-2147483648 to 2147483647]
1.Now your "Register Tag" should be pointing to "D0000 (DR#0)".
2.Click "OK" to continue.

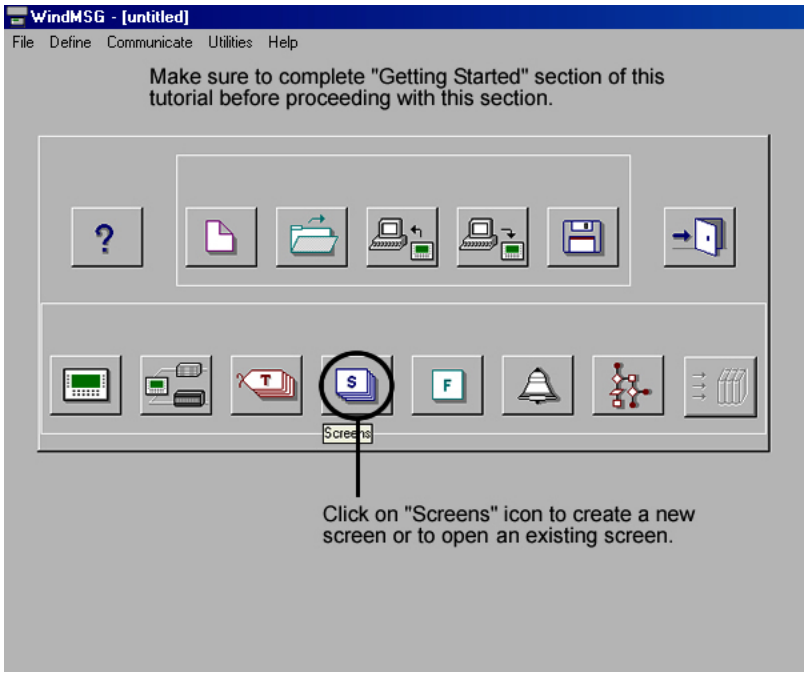


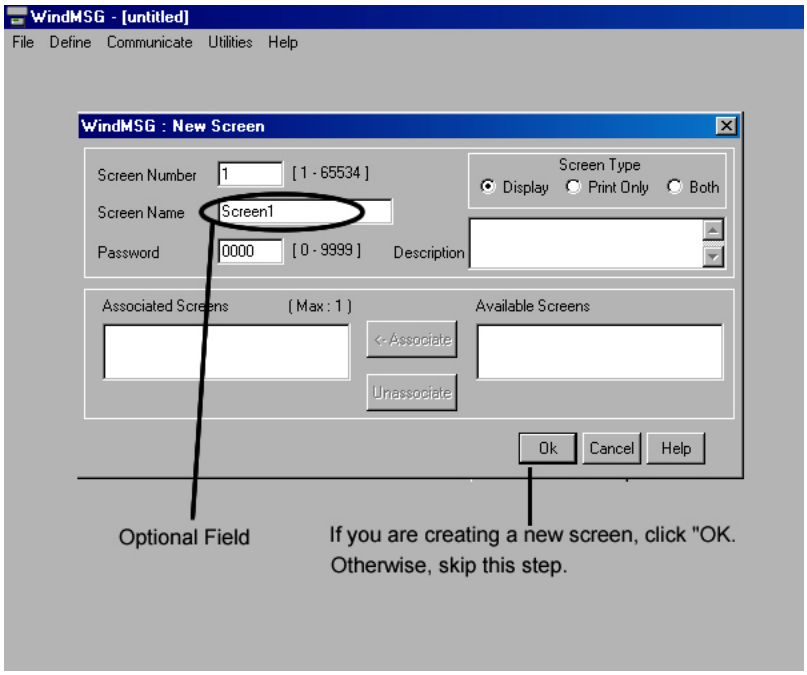
Now your screen image should look like the image above. Please download the project to HG1X unit. After downloading, HG1X unit will display the current value of Data Register#0 using this object.

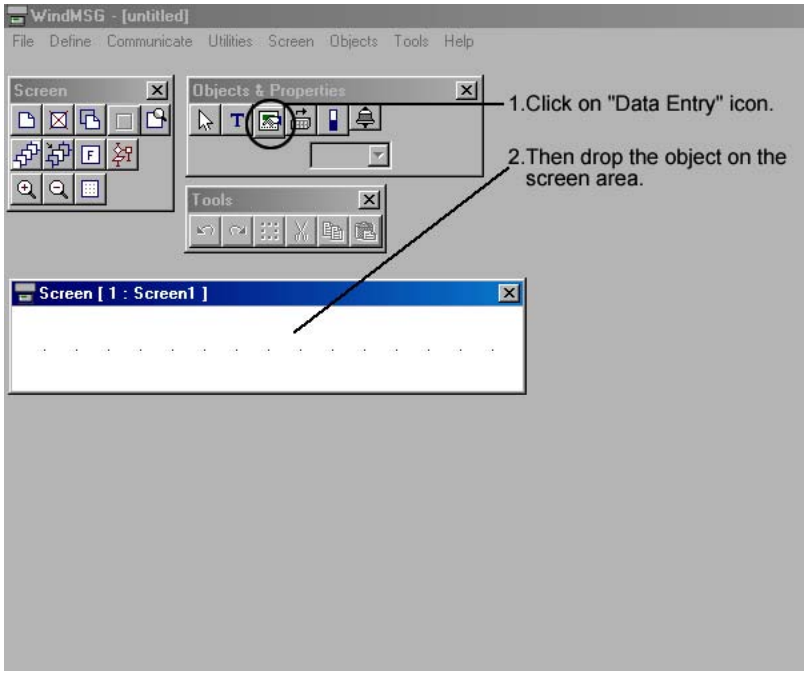
This concludes the tutorial on "Reading a Register Value".

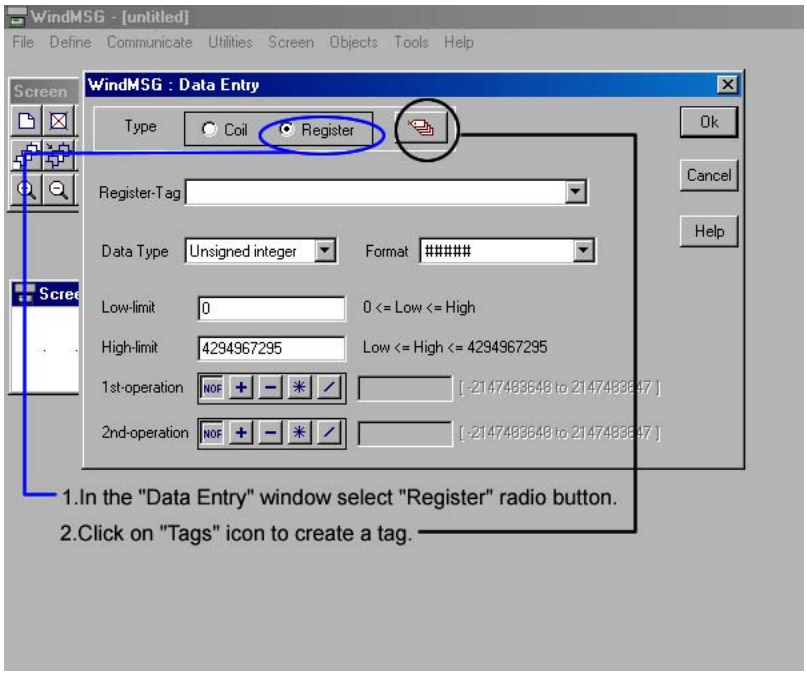
WindMSG Tutorial #6 (Writing to a Register)

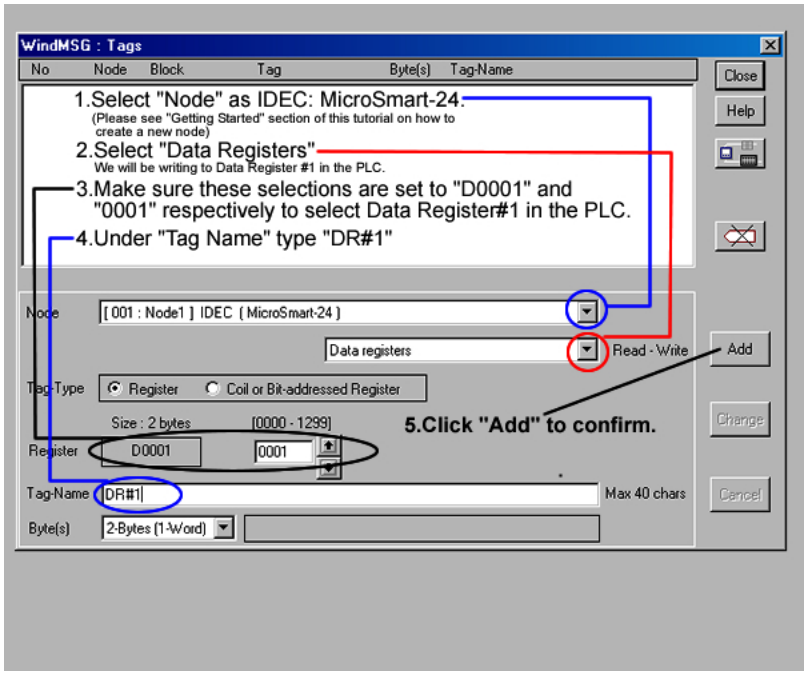


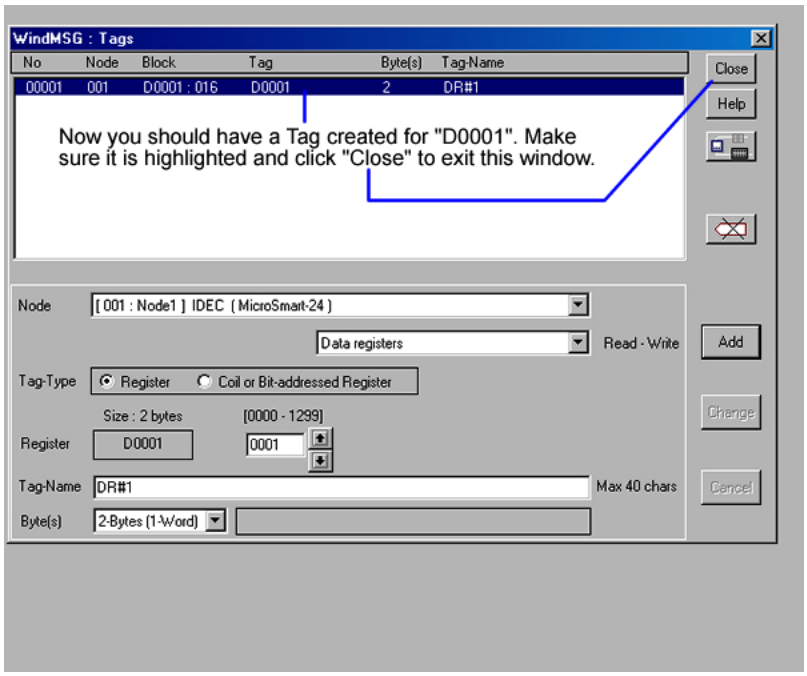


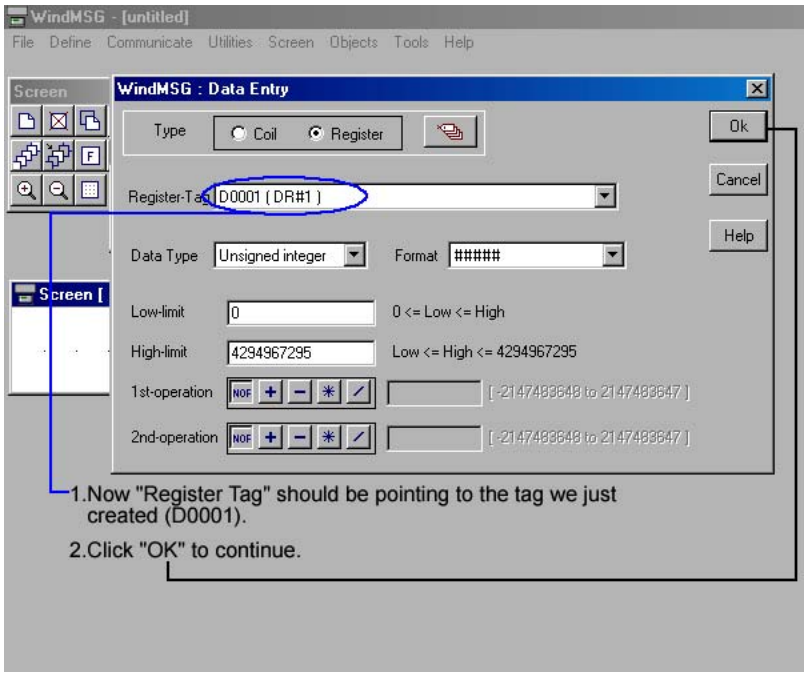

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : New Screen
Screen Number
1
[1 - 65534]
Screen Type
Display
Print Only
Both
Screen Name
Screen1
Password
0000
[0 - 9999]
Description
Associated Screens
(Max : 1)
Available Screens
<- Associate
Unassociate
Ok
Cancel
Help
Optional Field
If you are creating a new screen, click "OK. Otherwise, skip this step.

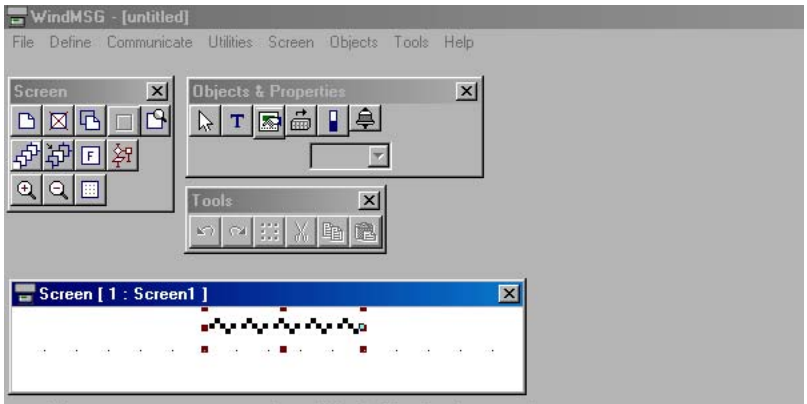

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
1.Click on "Data Entry" icon.
2.Then drop the object on the screen area.
Screen [1 : Screen1]


WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
WindMSG : Data Entry
Type
Coil
Register
Ok
Cancel
Help
Register-Tag
Data Type
Unsigned integer
Format
#####
Low-limit
0
0 <= Low <= High
High-limit
4294967295
Low <= High <= 4294967295
1st-operation
2nd-operation
1.In the "Data Entry" window select "Register" radio button.
2.Click on "Tags" icon to create a tag.


WindMSG : Tags
No Node Block Tag Byte(s) Tag-Name
Close
Help
1.Select "Node" as IDEC: MicroSmart-24.
(Please see "Getting Started" section of this tutorial on how to create a new node)
2.Select "Data Registers"
We will be writing to Data Register #1 in the PLC.
3.Make sure these selections are set to "D0001" and "0001" respectively to select Data Register#1 in the PLC.
4.Under "Tag Name" type "DR#1"
Node
[001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Size : 2 bytes
[0000 - 1299]
5.Click "Add" to confirm.
Change
Register
D0001
0001
Tag-Name
DR#1
Max 40 chars
Cancel
Byte(s)
2-Bytes (1-Word)


WindMSG : Tags
No
Node
Block
Tag
Byte(s)
Tag-Name
00001
001
D0001 : 016
D0001
2
DR#1
Close
Help
Now you should have a Tag created for "D0001". Make sure it is highlighted and click "Close" to exit this window.
Node
[001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Change
Size : 2 bytes
[0000 - 1299]
Register
D0001
0001
Tag-Name
DR#1
Max 40 chars
Cancel
Byte(s)
2-Bytes (1-Word)

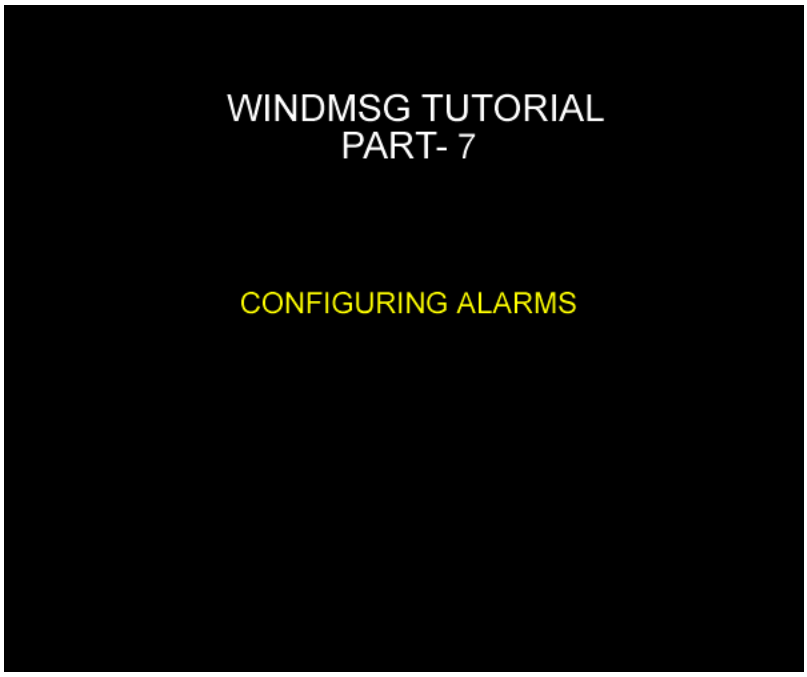

WindMSG - [untitled]
File
Define
Communicate
Utilities
Screen
Objects
Tools
Help
Screen
Screen [
WindMSG : Data Entry
Type
Coil
Register
Ok
Cancel
Help
Register-Tag
D0001 (DR#1)
Data Type
Unsigned integer
Format
#####
Low-limit
0
0 <= Low <= High
High-limit
4294967295
Low <= High <= 4294967295
1st-operation
2nd-operation
[-2147483648 to 2147483647]
1.Now "Register Tag" should be pointing to the tag we just created (D0001).
2.Click "OK" to continue.

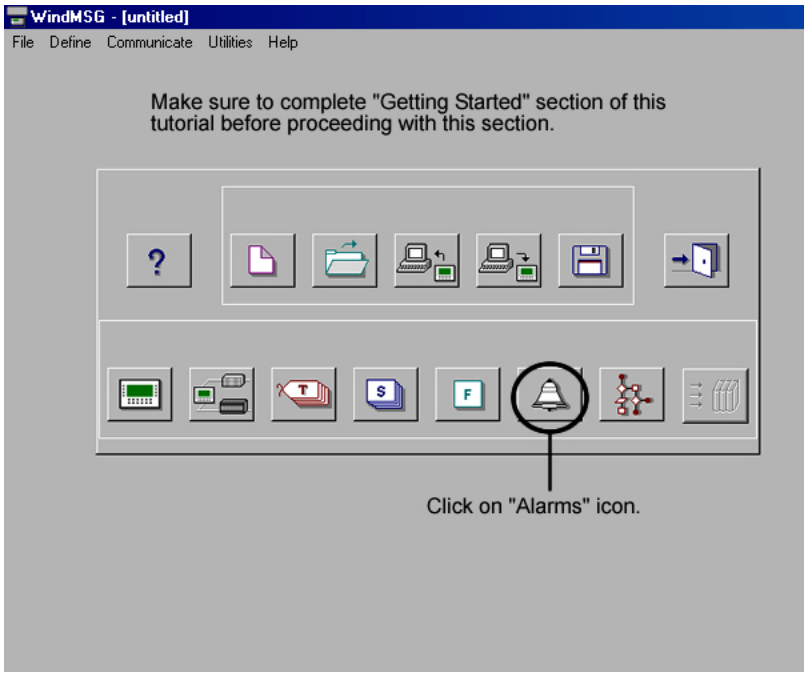


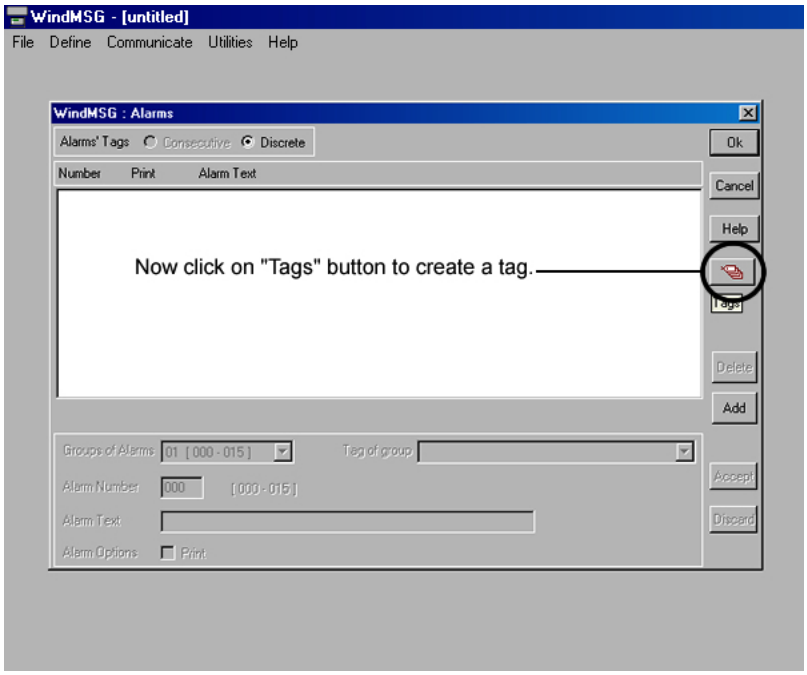
Now your screen area should look like the image above.
Save your program and download it to HG1X unit. After downloading, if you are using HG1X-252 (2-Line Display), use "F3 (Left Arrow)" and "F4 (Up Arrow)" keys to write values to Data Register#1 in the PLC.

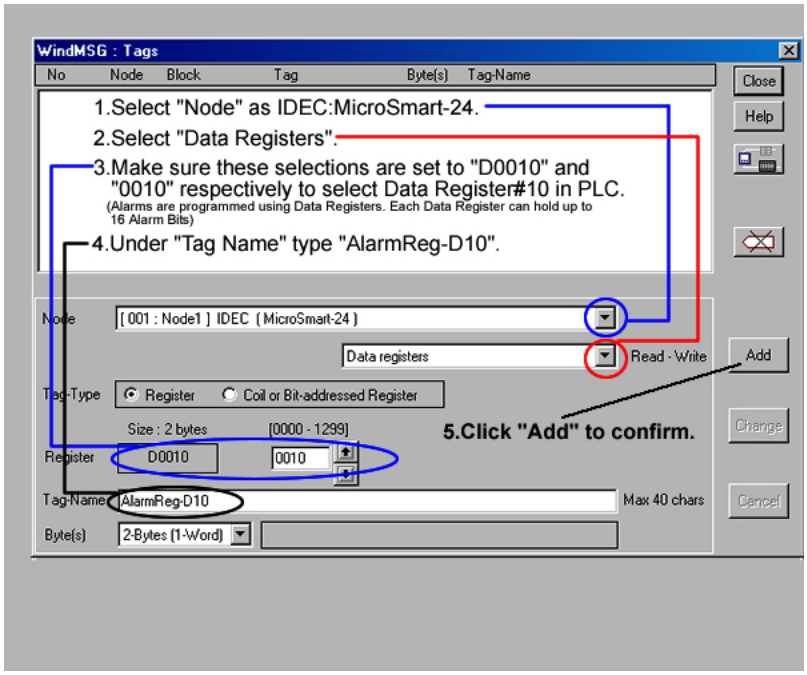
Otherwise, if you are using HG1X-452 (4-Line Display) simply use the built-in keypad to write values to Data Register#1.

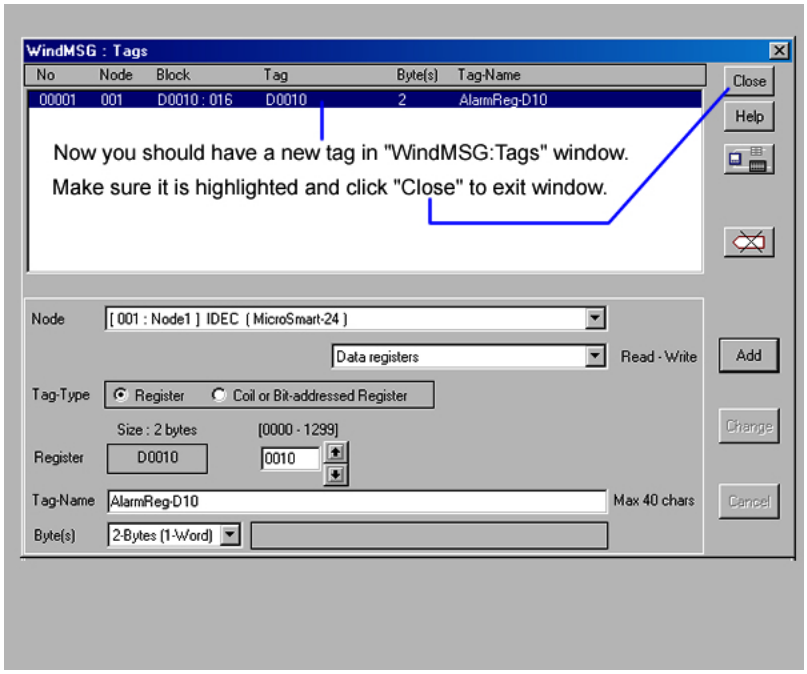
WindMSG Tutorial #7 (Configuring Alarms)

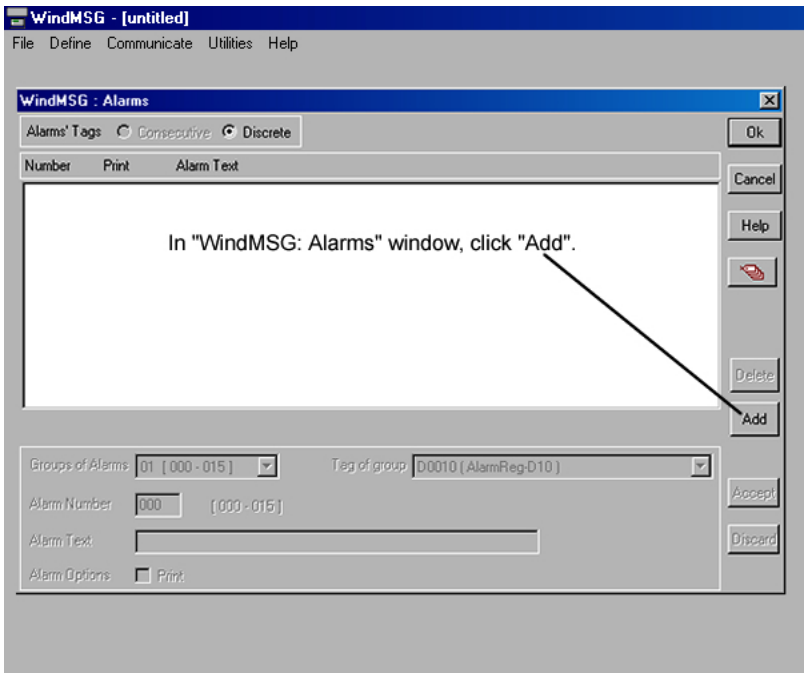


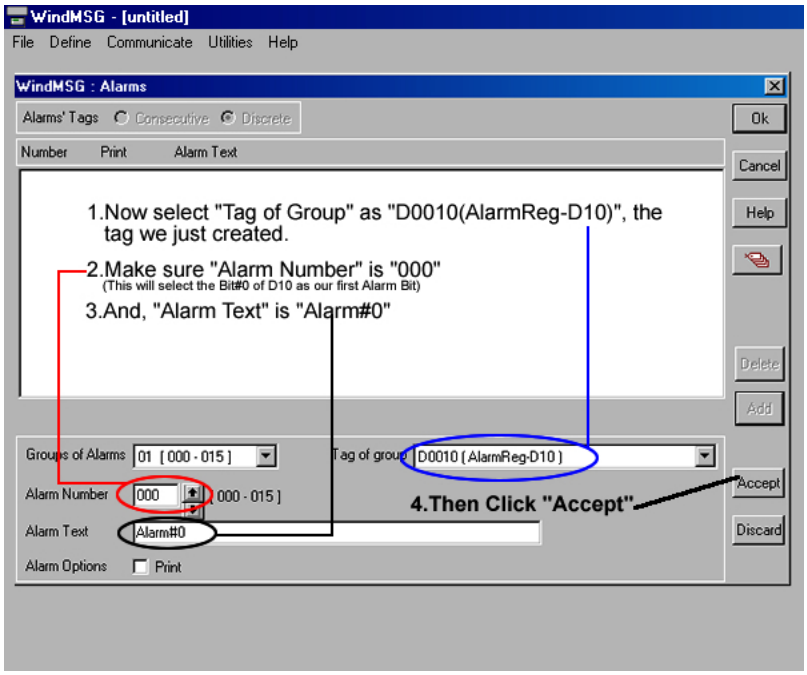


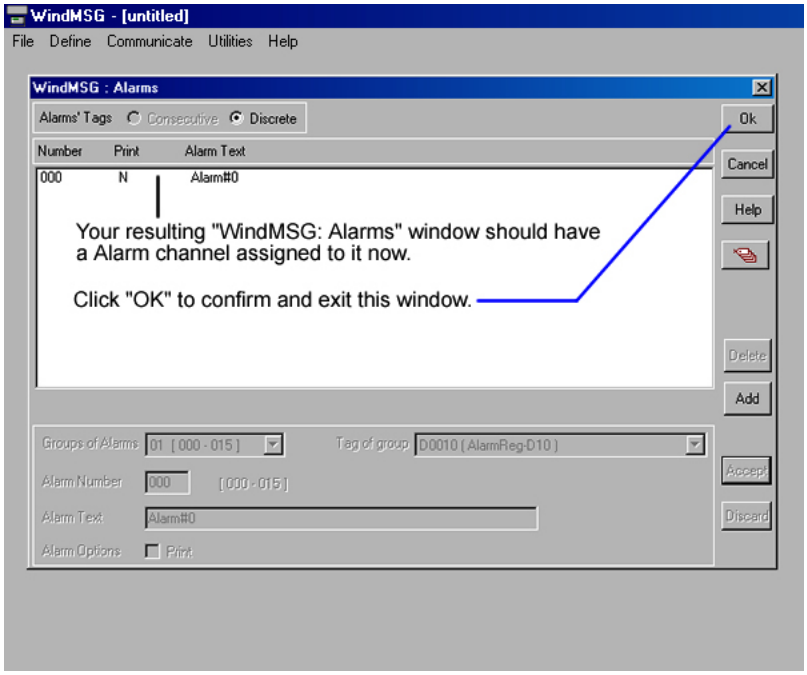

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Alarms
Alarms' Tags Consecutive Discrete
Ok
Number Print Alarm Text
Cancel
Help
Now click on "Tags" button to create a tag.
Delete
Add
Groups of Alarms 01 [000 - 015]
Tag of group
Alarm Number 000 [000 - 015]
Accept
Alarm Text
Discard
Alarm Options Print

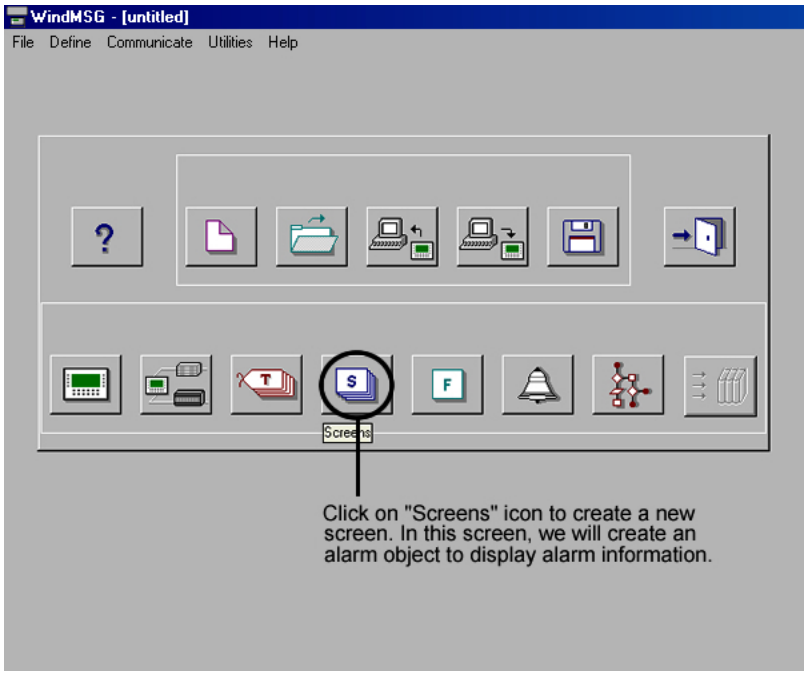

WindMSG : Tags
No Node Block Tag Byte(s) Tag-Name
Close
Help
1.Select "Node" as IDEC:MicroSmart-24.
2.Select "Data Registers".
3.Make sure these selections are set to "D0010" and "0010" respectively to select Data Register#10 in PLC.
(Alarms are programmed using Data Registers. Each Data Register can hold up to 16 Alarm Bits)
4.Under "Tag Name" type "AlarmReg-D10".
Node [001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag-Type Register Coil or Bit-addressed Register
Size : 2 bytes [0000 - 1299]
5.Click "Add" to confirm.
Change
Register D0010 0010
Tag-Name AlarmReg-D10
Max 40 chars
Cancel
Byte(s) 2-Bytes (1-Word)

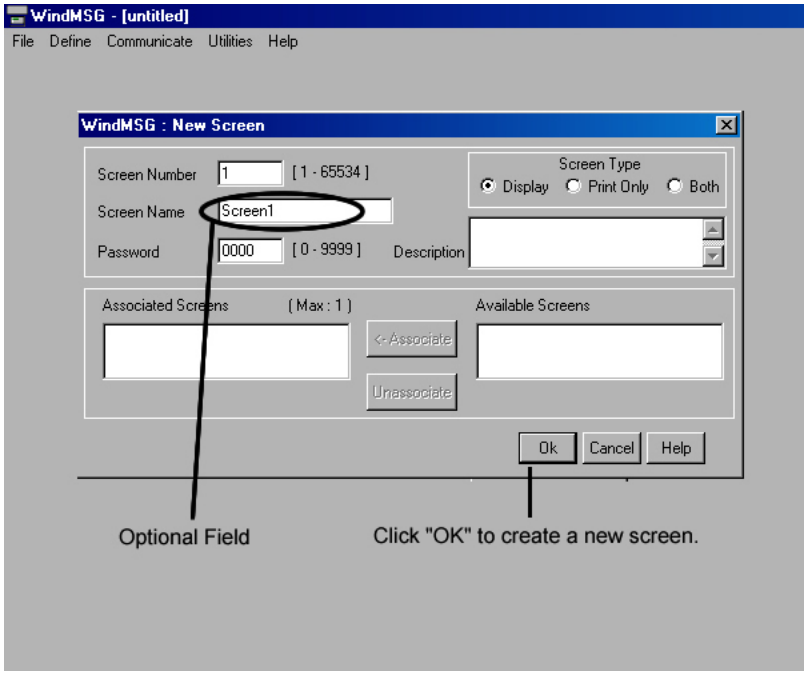

WindMSG : Tags
No
Node
Block
Tag
Byte(s)
Tag-Name
00001
001
D0010 : 016
D0010
2
AlarmReg-D10
Close
Help
Now you should have a new tag in "WindMSG:Tags" window.
Make sure it is highlighted and click "Close" to exit window.
Node
[001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Change
Size : 2 bytes
[0000 - 1299]
Register
D0010
0010
Tag-Name
AlarmReg-D10
Max 40 chars
Cancel
Byte(s)
2-Bytes (1-Word)

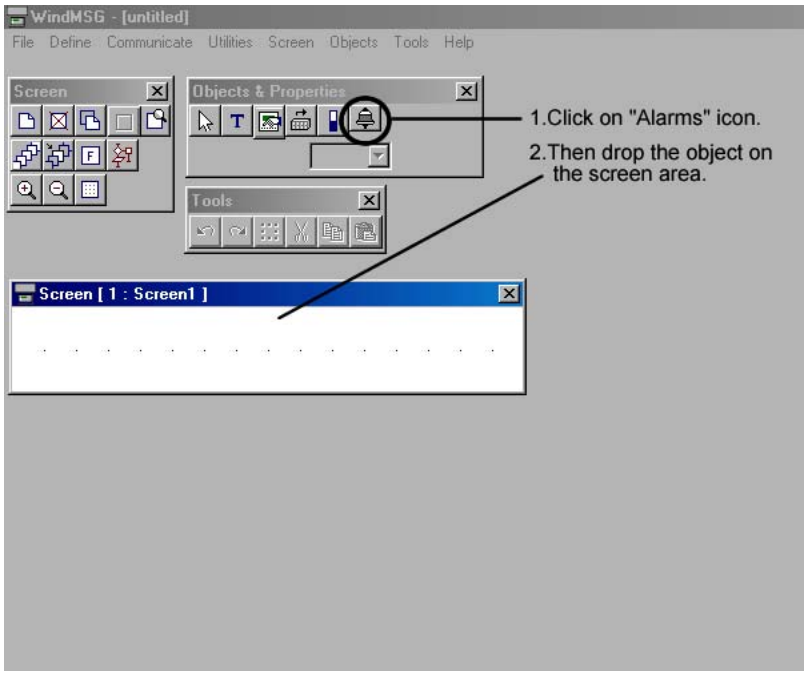

WindMSG - [untitled]
File
Define
Communicate
Utilities
Help
WindMSG : Alarms
Alarms' Tags
Consecutive
Discrete
Ok
Number
Print
Alarm Text
Cancel
Help
In "WindMSG: Alarms" window, click "Add".
Delete
Add
Groups of Alarms
01 [000 - 015]
Tag of group
D0010 (AlarmReg-D10)
Accept
Alarm Number
000
[000 - 015]
Discard
Alarm Text
Alarm Options
Print

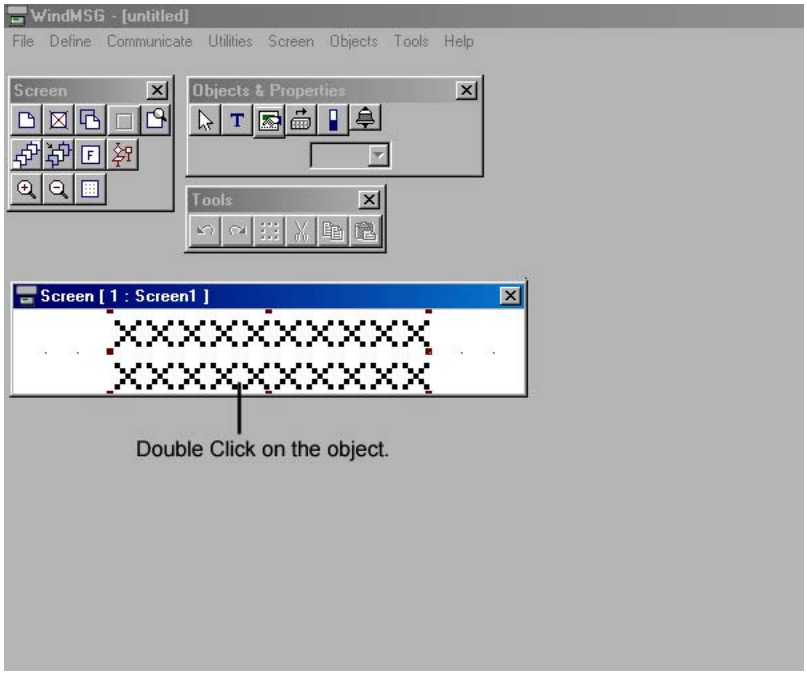

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Alarms
Alarms' Tags Consecutive Discrete
Ok
Number Print Alarm Text
Cancel
Help
1.Now select "Tag of Group" as "D0010(AlarmReg-D10)", the tag we just created.
2.Make sure "Alarm Number" is "000"
(This will select the Bit#0 of D10 as our first Alarm Bit)
3.And, "Alarm Text" is "Alarm#0"
Delete
Add
Groups of Alarms 01 [000 - 015]
Tag of group D0010 (AlarmReg-D10)
Alarm Number 000 [000 - 015]
4.Then Click "Accept"
Accept
Alarm Text Alarm#0
Discard
Alarm Options Print

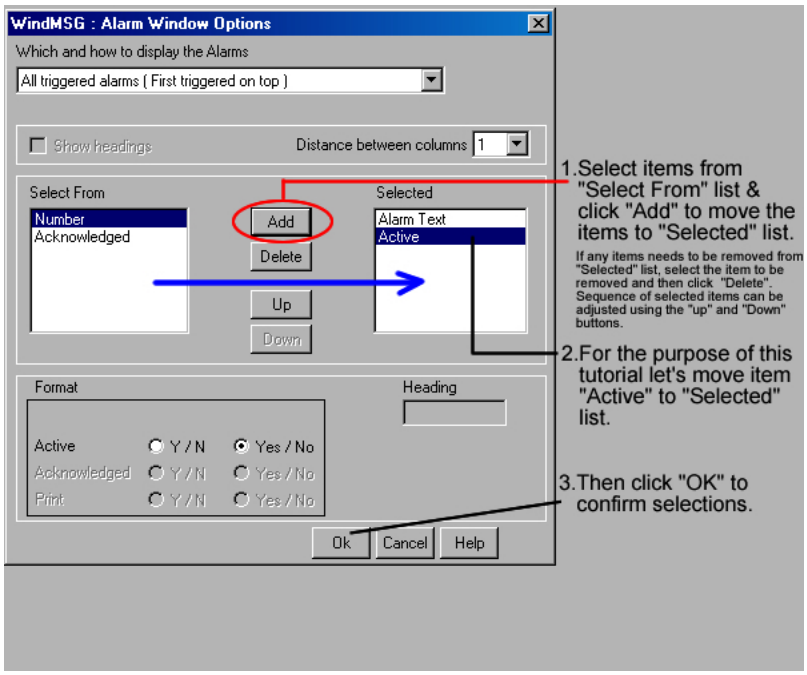

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Alarms
Alarms' Tags Consecutive Discrete
Ok
Number Print Alarm Text
000 N Alarm#0
Cancel
Help
Your resulting "WindMSG: Alarms" window should have a Alarm channel assigned to it now.
Click "OK" to confirm and exit this window.
Delete
Add
Groups of Alarms 01 [000 - 015]
Tag of group D0010 (AlarmReg-D10)
Alarm Number 000 [000 - 015]
Accept
Alarm Text Alarm#0
Discard
Alarm Options Print

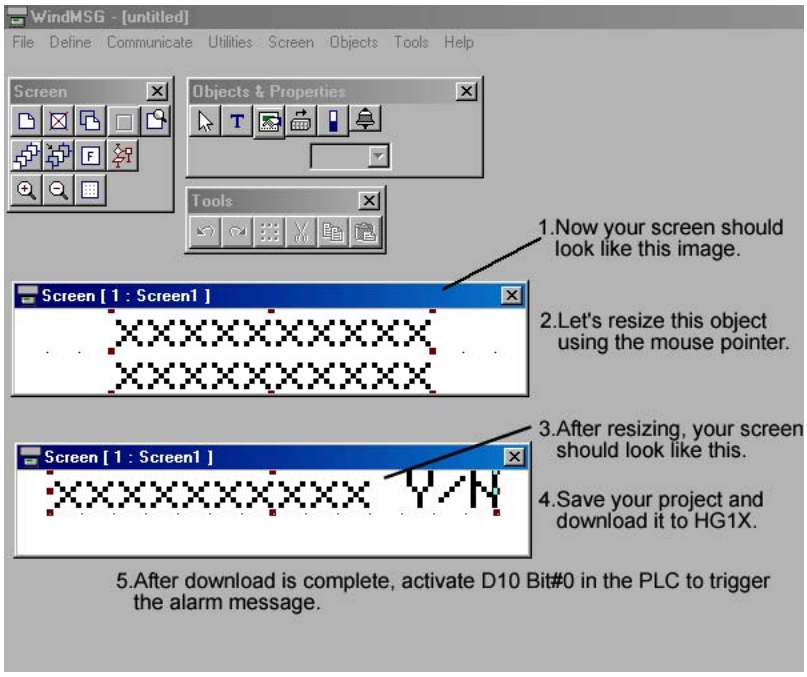

WindMSG - [untitled]
File Define Communicate Utilities Help
Screens
Click on "Screens" icon to create a new screen. In this screen, we will create an alarm object to display alarm information.


WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : New Screen
Screen Number 1 [1 - 65534]
Screen Name Screen1
Password 0000 [0 - 9999]
Description
Screen Type
Display Print Only Both
Associated Screens (Max : 1)
Available Screens
<- Associate
Unassociate
Ok Cancel Help
Optional Field
Click "OK" to create a new screen.

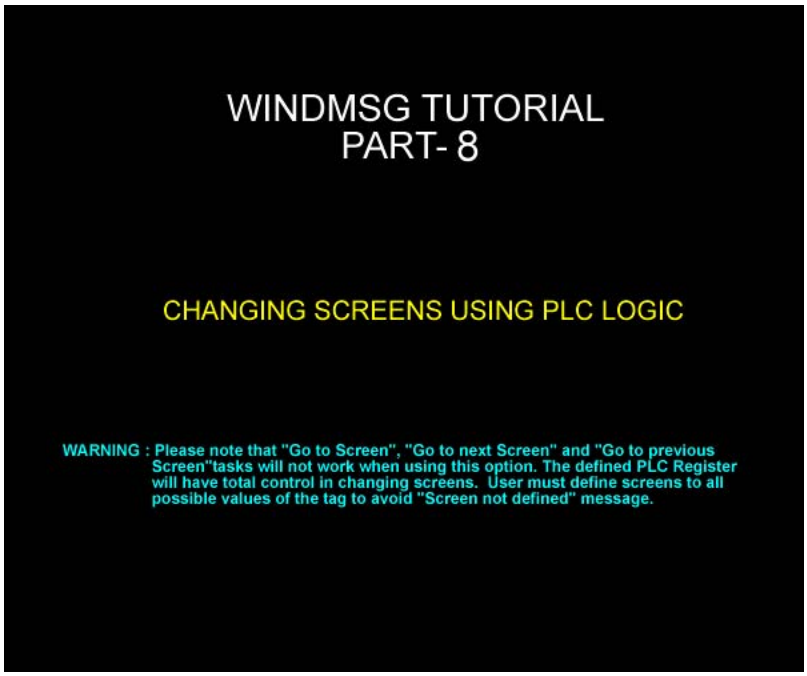

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
Screen [1 : Screen1]
1.Click on "Alarms" icon.
2.Then drop the object on the screen area.

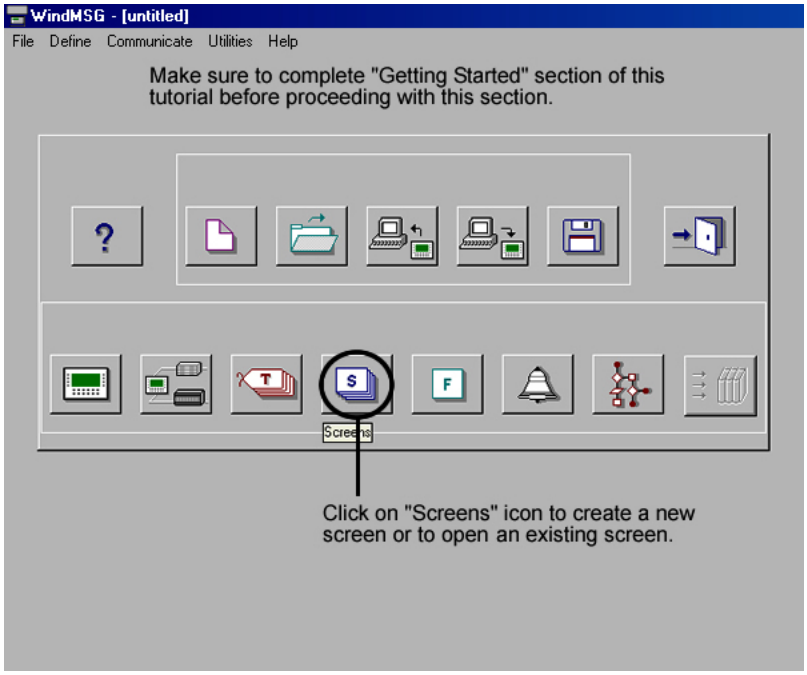

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
Screen [1 : Screen1]
Double Click on the object.

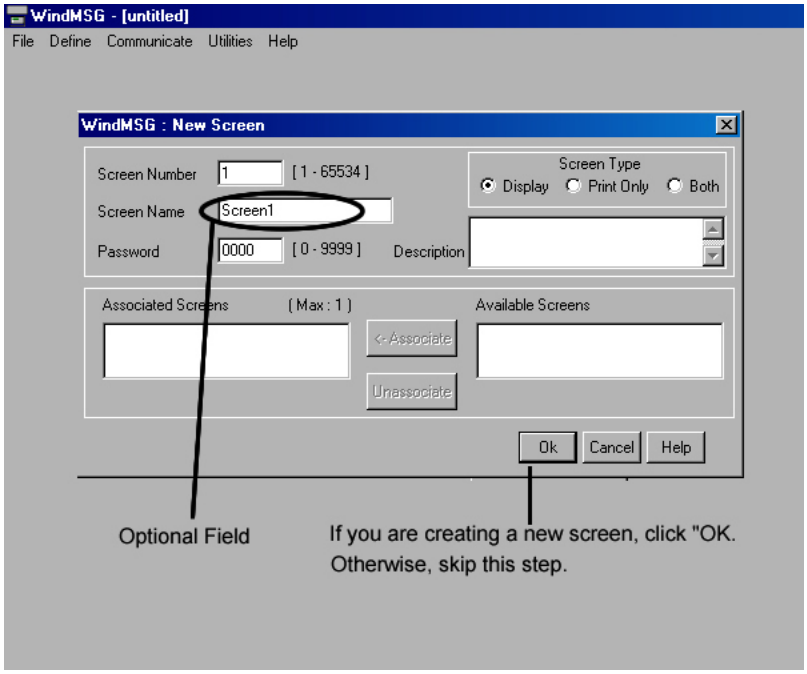

WindMSG : Alarm Window Options
Which and how to display the Alarms
All triggered alarms (First triggered on top)
Show headings
Distance between columns 1
Select From
Number
Acknowledged
Add
Delete
Up
Down
Selected
Alarm Text
Active
Format
Heading
Active Y / N Yes / No
Acknowledged Y / N Yes / No
Print Y / N Yes / No
Ok
Cancel
Help
1.Select items from "Select From" list & click "Add" to move the items to "Selected" list.
If any items needs to be removed from "Selected" list, select the item to be removed and then click "Delete". Sequence of selected items can be adjusted using the "up" and "Down" buttons.
2.For the purpose of this tutorial let's move item "Active" to "Selected" list.
3.Then click "OK" to confirm selections.

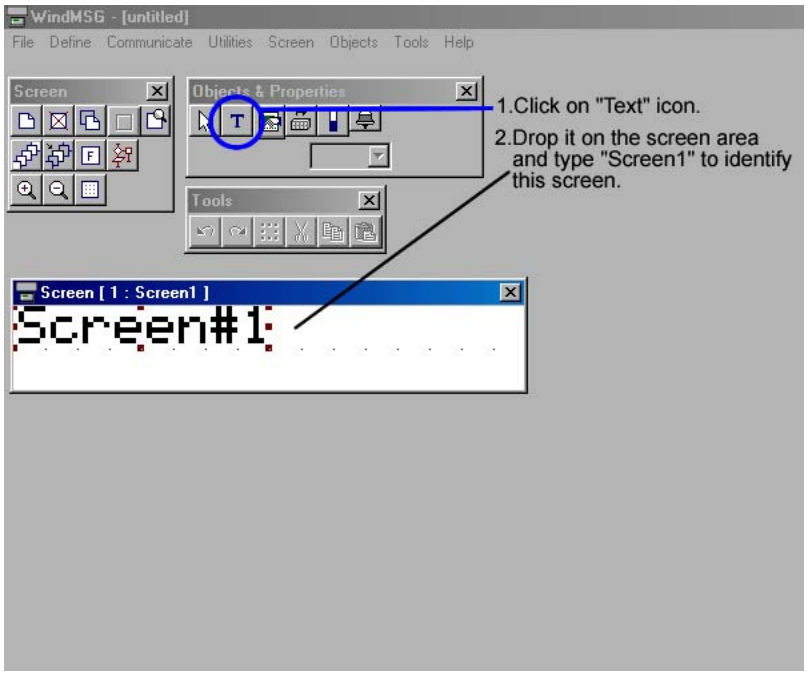

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
1.Now your screen should look like this image.
Screen [1 : Screen1]
2.Let's resize this object using the mouse pointer.
Screen [1 : Screen1]
Y/N
3.After resizing, your screen should look like this.
4.Save your project and download it to HG1X.
5.After download is complete, activate D10 Bit#0 in the PLC to trigger the alarm message.

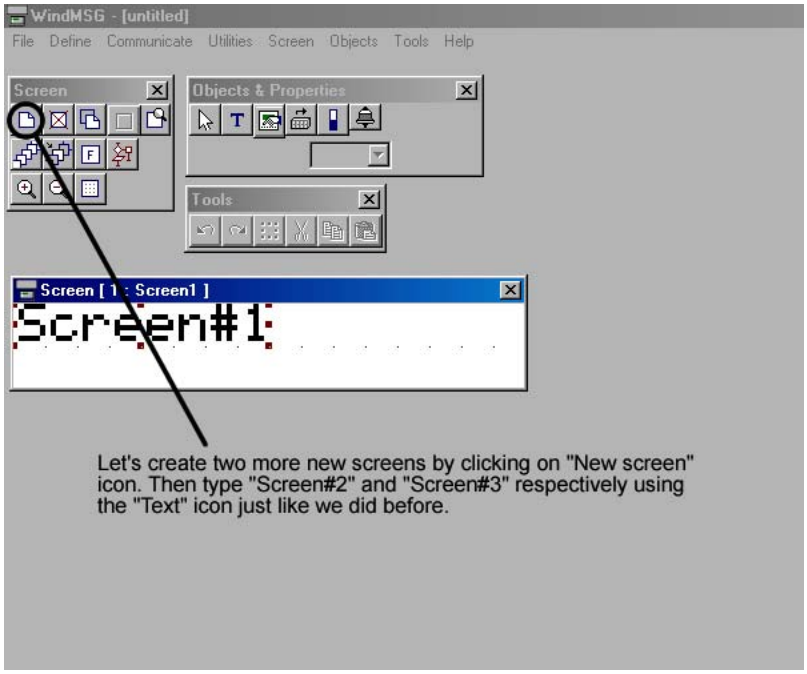
WindMSG Tutorial #8 (Changing screens using PLC logic)

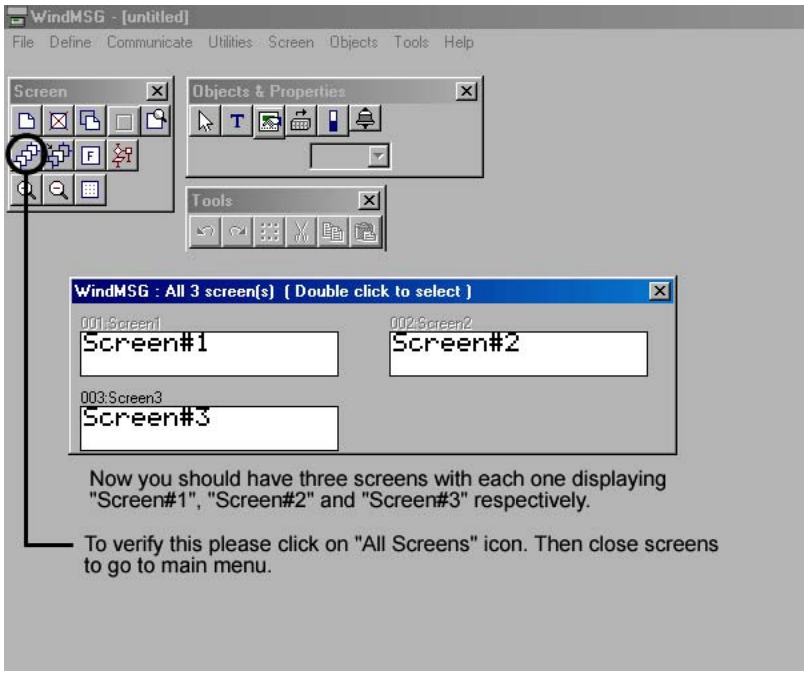


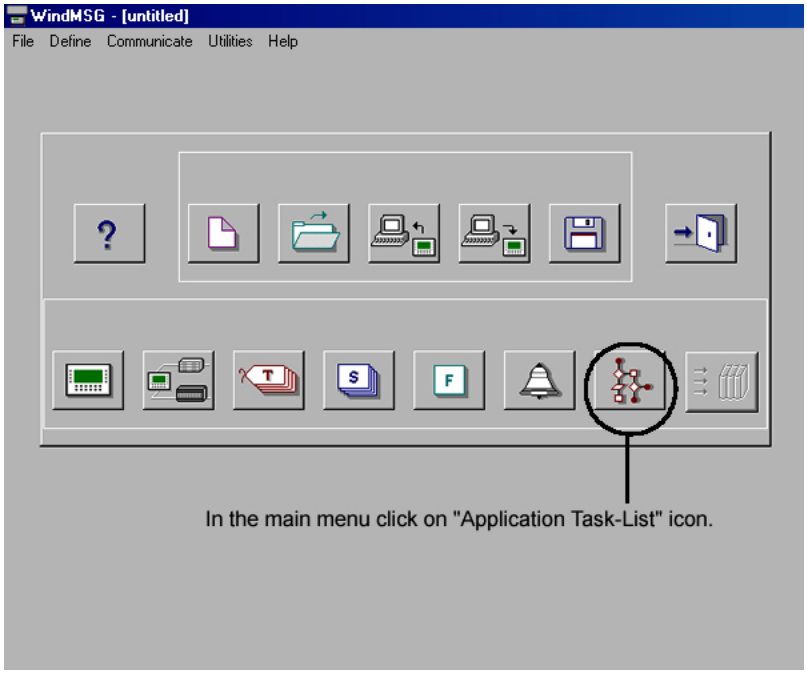


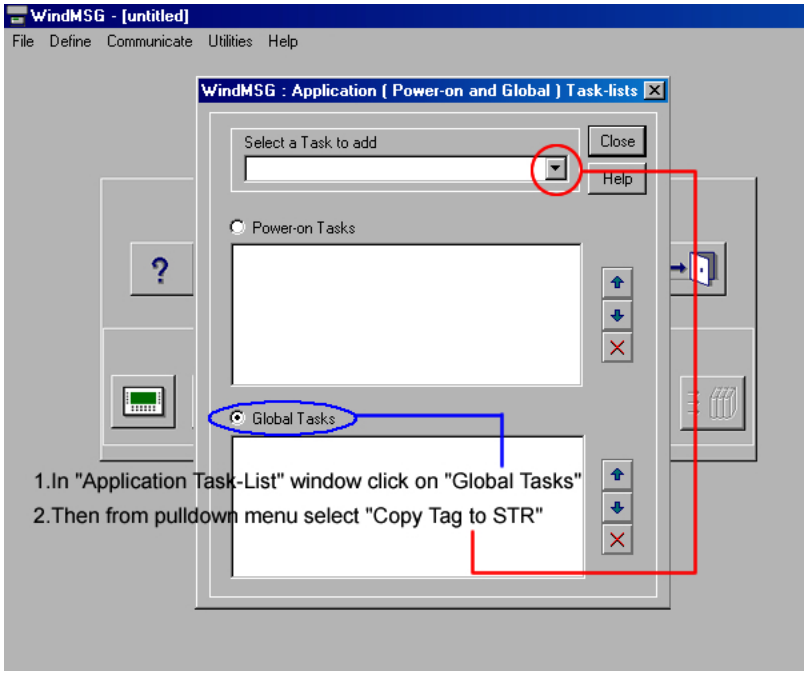

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : New Screen
Screen Number 1 [1 - 65534]
Screen Name Screen1
Password 0000 [0 - 9999]
Description
Screen Type
Display Print Only Both
Associated Screens (Max : 1)
Available Screens
<- Associate
Unassociate
Ok Cancel Help
Optional Field
If you are creating a new screen, click "OK. Otherwise, skip this step.

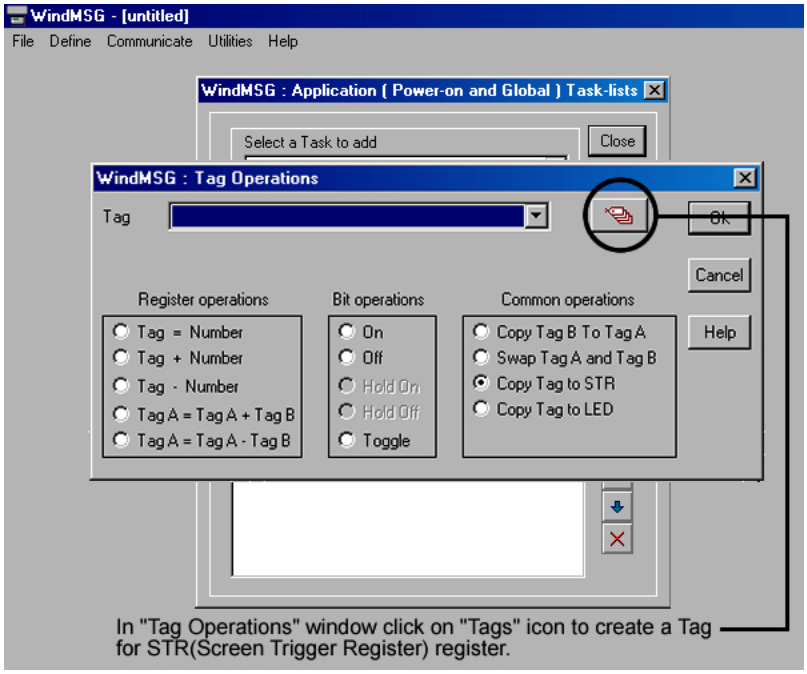

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
1.Click on "Text" icon.
2.Drop it on the screen area and type "Screen1" to identify this screen.
Screen [1 : Screen1]
Screen#1

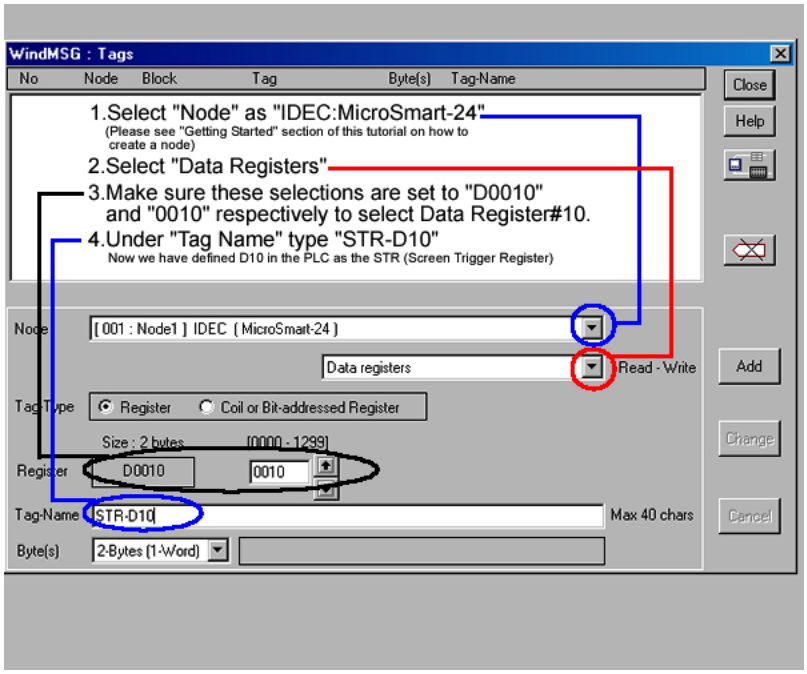

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
Screen [1 : Screen1]
Screen#1
Let's create two more new screens by clicking on "New screen" icon. Then type "Screen#2" and "Screen#3" respectively using the "Text" icon just like we did before.

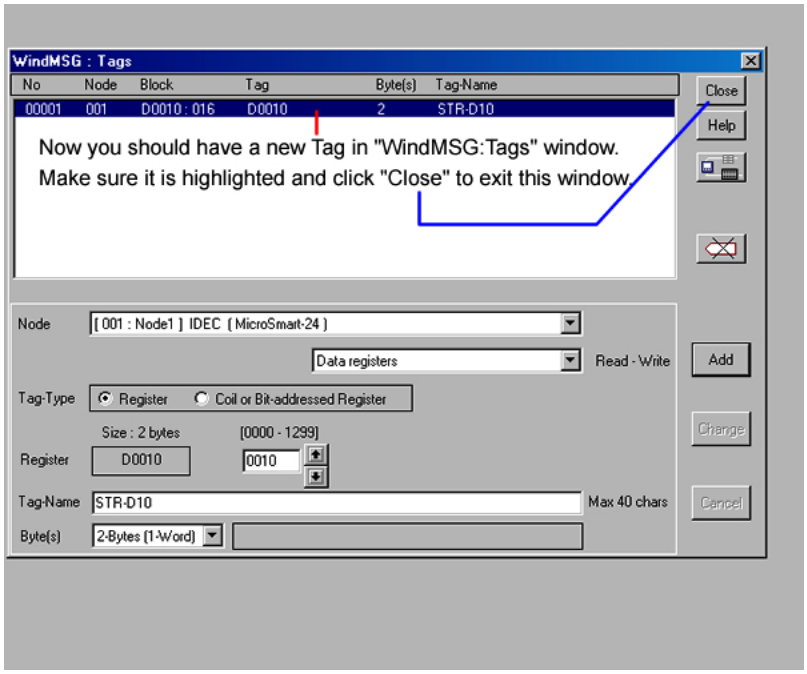

WindMSG - [untitled]
File Define Communicate Utilities Screen Objects Tools Help
Screen
Objects & Properties
Tools
WindMSG : All 3 screen(s) { Double click to select }
001:Screen1
Screen#1
002:Screen2
Screen#2
003:Screen3
Screen#3
Now you should have three screens with each one displaying "Screen#1", "Screen#2" and "Screen#3" respectively.
To verify this please click on "All Screens" icon. Then close screens to go to main menu.

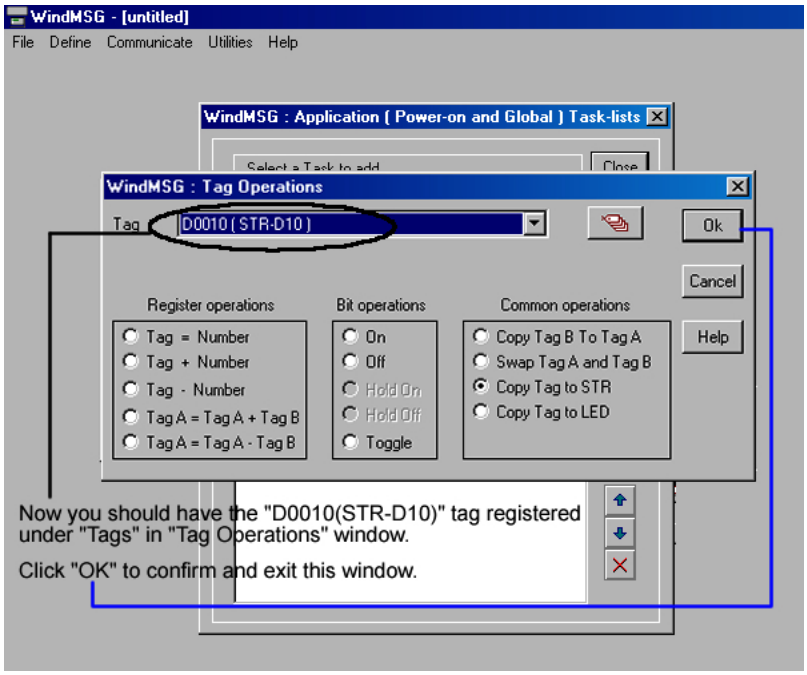

WindMSG - [untitled]
File Define Communicate Utilities Help
In the main menu click on "Application Task-List" icon.

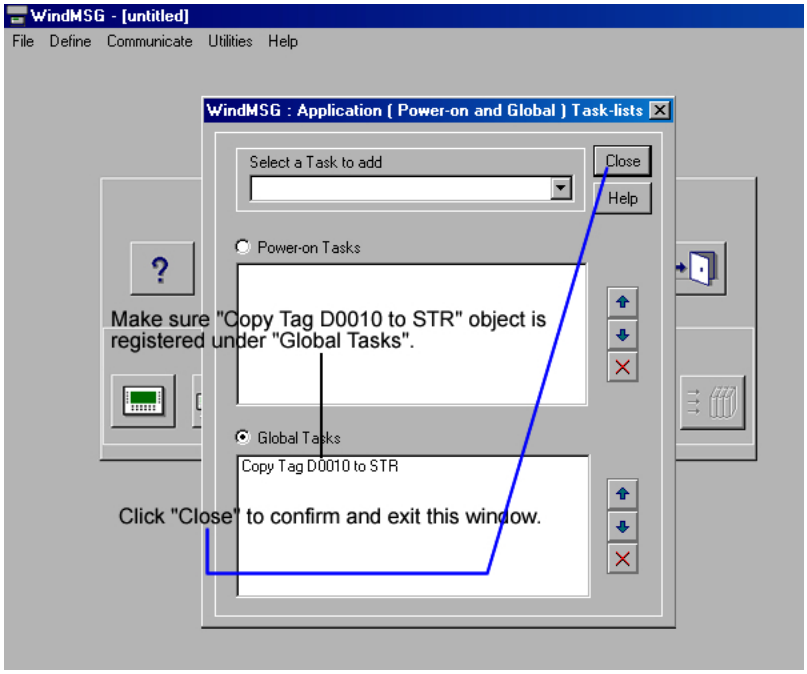

WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Application (Power-on and Global) Task-lists
Select a Task to add
Close
Help
Power-on Tasks
Global Tasks
1.In "Application Task-List" window click on "Global Tasks"
2.Then from pulldown menu select "Copy Tag to STR"


WindMSG - [untitled]
File Define Communicate Utilities Help
WindMSG : Application (Power-on and Global) Task-lists
Select a Task to add
Close
WindMSG : Tag Operations
Tag
OK
Cancel
Help
Register operations
Tag = Number
Tag + Number
Tag - Number
Tag A = Tag A + Tag B
Tag A = Tag A - Tag B
Bit operations
On
Off
Hold On
Hold Off
Toggle
Common operations
Copy Tag B To Tag A
Swap Tag A and Tag B
Copy Tag to STR
Copy Tag to LED
In "Tag Operations" window click on "Tags" icon to create a Tag for STR(Screen Trigger Register) register.


WindMSG : Tags
No Node Block Tag Byte(s) Tag-Name
Close
Help
1.Select "Node" as "IDEC:MicroSmart-24"
(Please see "Getting Started" section of this tutorial on how to create a node)
2.Select "Data Registers"
3.Make sure these selections are set to "D0010" and "0010" respectively to select Data Register#10.
4.Under "Tag Name" type "STR-D10"
Now we have defined D10 in the PLC as the STR (Screen Trigger Register)
Node
[001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag Type
Register
Coil or Bit-addressed Register
Size : 2 bytes
[0000 - 1299]
Register
D0010
0010
Change
Tag-Name
STR-D10
Max 40 chars
Cancel
Byte(s)
2-Bytes [1-Word]


WindMSG : Tags
No
Node
Block
Tag
Byte(s)
Tag-Name
00001
001
D0010 : 016
D0010
2
STR-D10
Close
Help
Now you should have a new Tag in "WindMSG:Tags" window.
Make sure it is highlighted and click "Close" to exit this window.
Node
[001 : Node1] IDEC (MicroSmart-24)
Data registers
Read - Write
Add
Tag-Type
Register
Coil or Bit-addressed Register
Size : 2 bytes
[0000 - 1299]
Register
D0010
0010
Change
Tag-Name
STR-D10
Max 40 chars
Cancel
Byte(s)
2-Bytes (1-Word)


WindMSG - [untitled]
File
Define
Communicate
Utilities
Help
WindMSG : Application (Power-on and Global) Task-lists
Close
WindMSG : Tag Operations
Tag
D0010 (STR-D10)
Ok
Cancel
Help
Register operations
Tag = Number
Tag + Number
Tag - Number
Tag A = Tag A + Tag B
Tag A = Tag A - Tag B
Bit operations
On
Off
Hold On
Hold Off
Toggle
Common operations
Copy Tag B To Tag A
Swap Tag A and Tag B
Copy Tag to STR
Copy Tag to LED
Now you should have the "D0010(STR-D10)" tag registered under "Tags" in "Tag Operations" window.
Click "OK" to confirm and exit this window.



END OF WINDMSG TUTORIAL -PART# 8

Save this project and download it to HG1X unit. In order to trigger pages write values 1,2 or 3 in to D10 (Data Register# 10) in your PLC. Depending on the value in D10, HG1X will display the corresponding screen.

Example: If D10=1, then HG1X will switch to screen 1
if D10=2, then HG1X will switch to screen 2 etc..