

Touch200 Link To I-8xx7, 7188EG & 7188XG

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Software: EasyBuilder 200

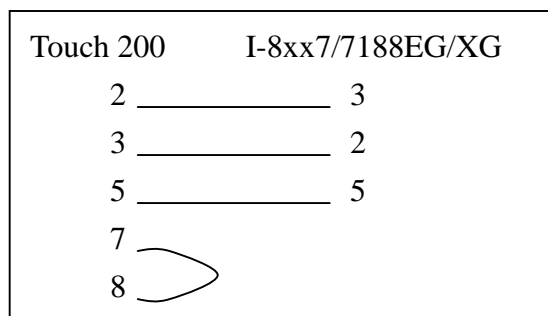
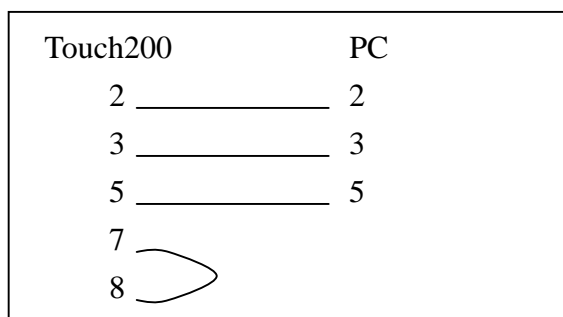
Please download its toolkit & Manual at

<http://www.icpdas.com/download/others/touch/touch.htm> or

CD-ROM:\napdos\others\



Wiring diagram : RS232 port (9 Pin Dsub)



Step 1: Programming the I-8417/8817/8437/8837

To make data of the I-8417/8817/8437/8837, 7188EG/XG controller to be accessible to the Touch 200/250, variables in the I-8417/8817/8437/8837, 7188EG/XG should be assigned a network address. Please refer to section 4.1, 4.2 of the ISaGRAF user's Manual. If you are not familiar with the ISaGRAF programming, recommended to review Chapter 2 of ISaGRAF user's Manual. It can be download at

<http://www.icpdas.com/products/8000/isagraf.htm>

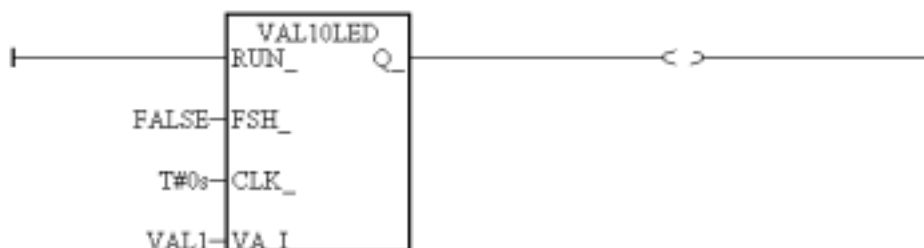
Variables used in this example.

Name	Type	Attribute	Network address	Others
OUT01	Boolean	Output	0001	
OUT02	Boolean	Output	0002	
VAL1	Integer	Internal	000A (10)	

IO connection:



A simple LD program to show the “VAL1” to 7-segment LED:



After you finish this project, compile and download it to the I-8xx7 controller.

Step 2: Set Touch200's COMM parameter & PLC's NET-ID

Switch the "Dip switch" on the back of Touch 200 to 1:ON, others:OFF , then reset it & then enter the "PARAMETER" setting mode, Please set below items.

COM PORT: RS232

BAUDRATE:19200 (default COM1 parameter of I-7188EG/XG, & 8xx7 is 19200,N,8,1)

PARITY: N

DATA BIT: 8

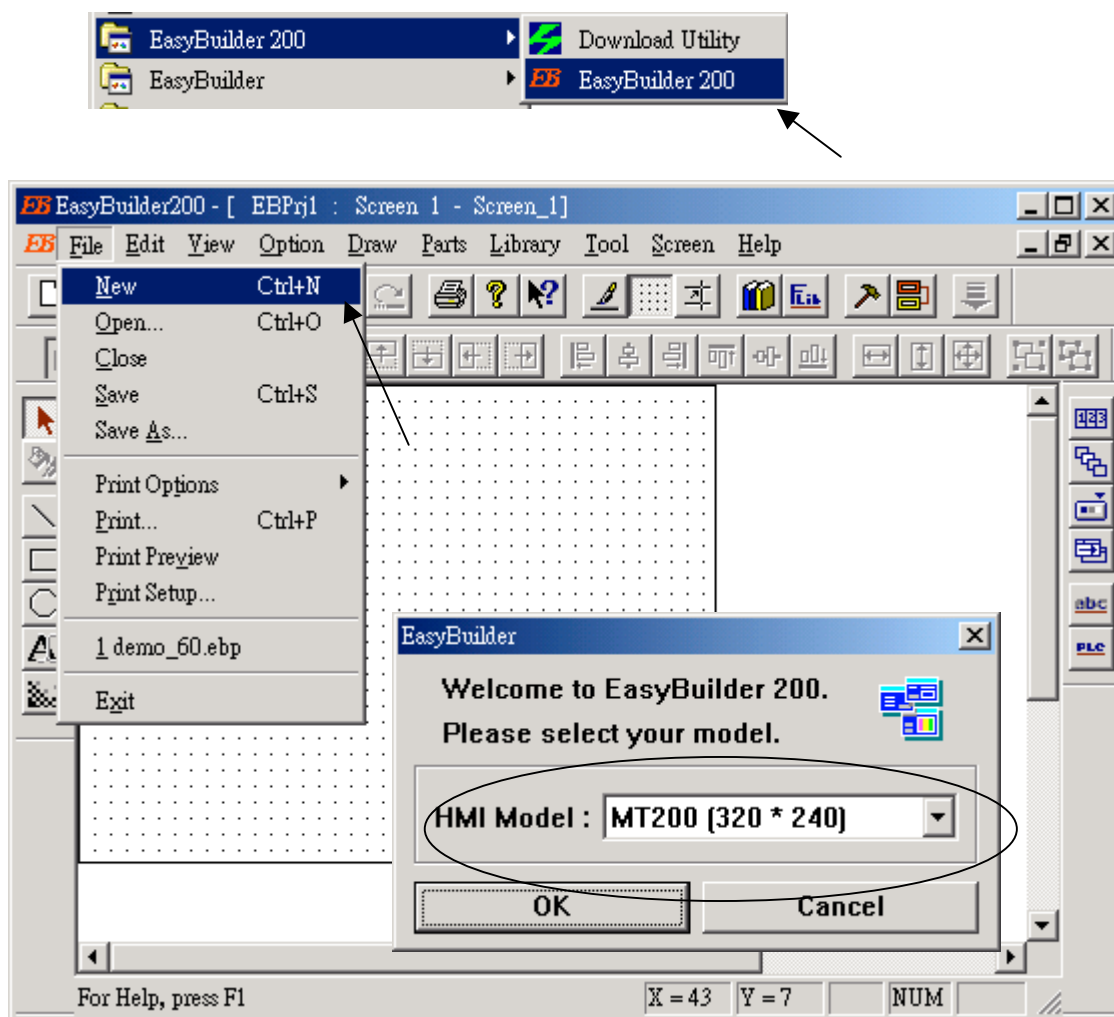
STOP BIT: 1

Option 2: PLC's Net-ID (default Net-ID of I-7188EG/XG, & 8xx7 is 1)

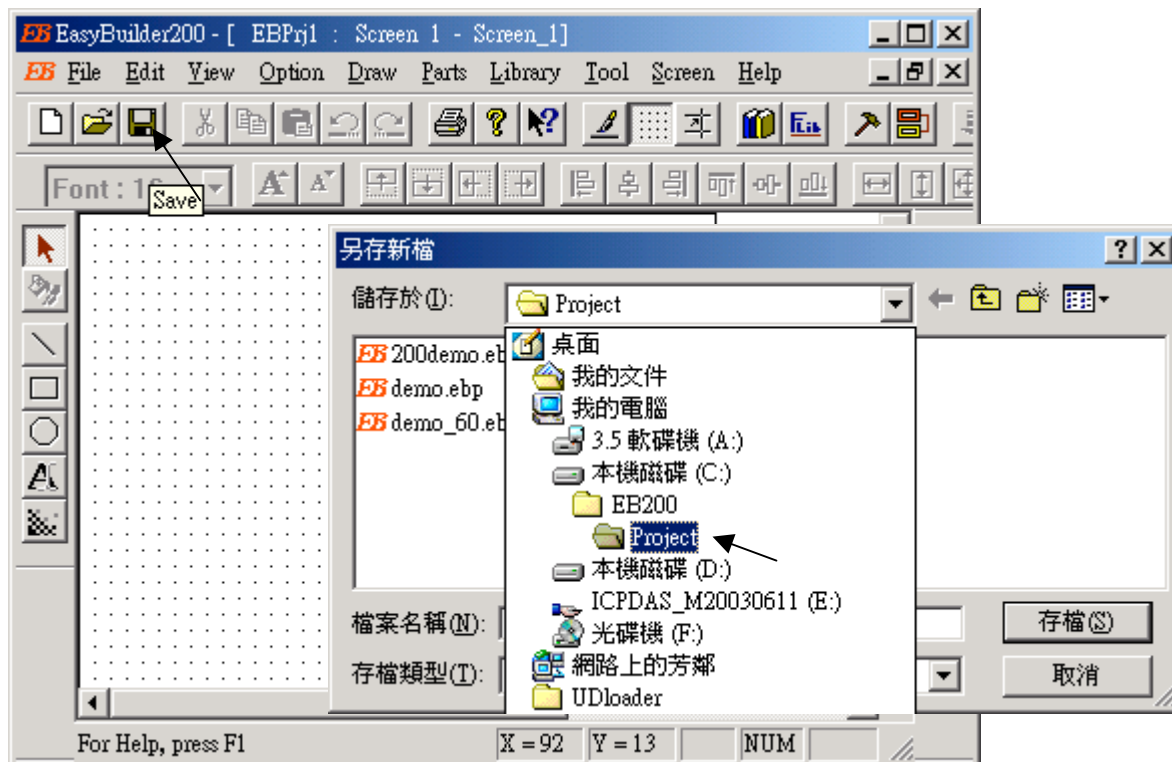
Then press on "ESC" to quit.

Step 3: Create New project, add new item library & then save it

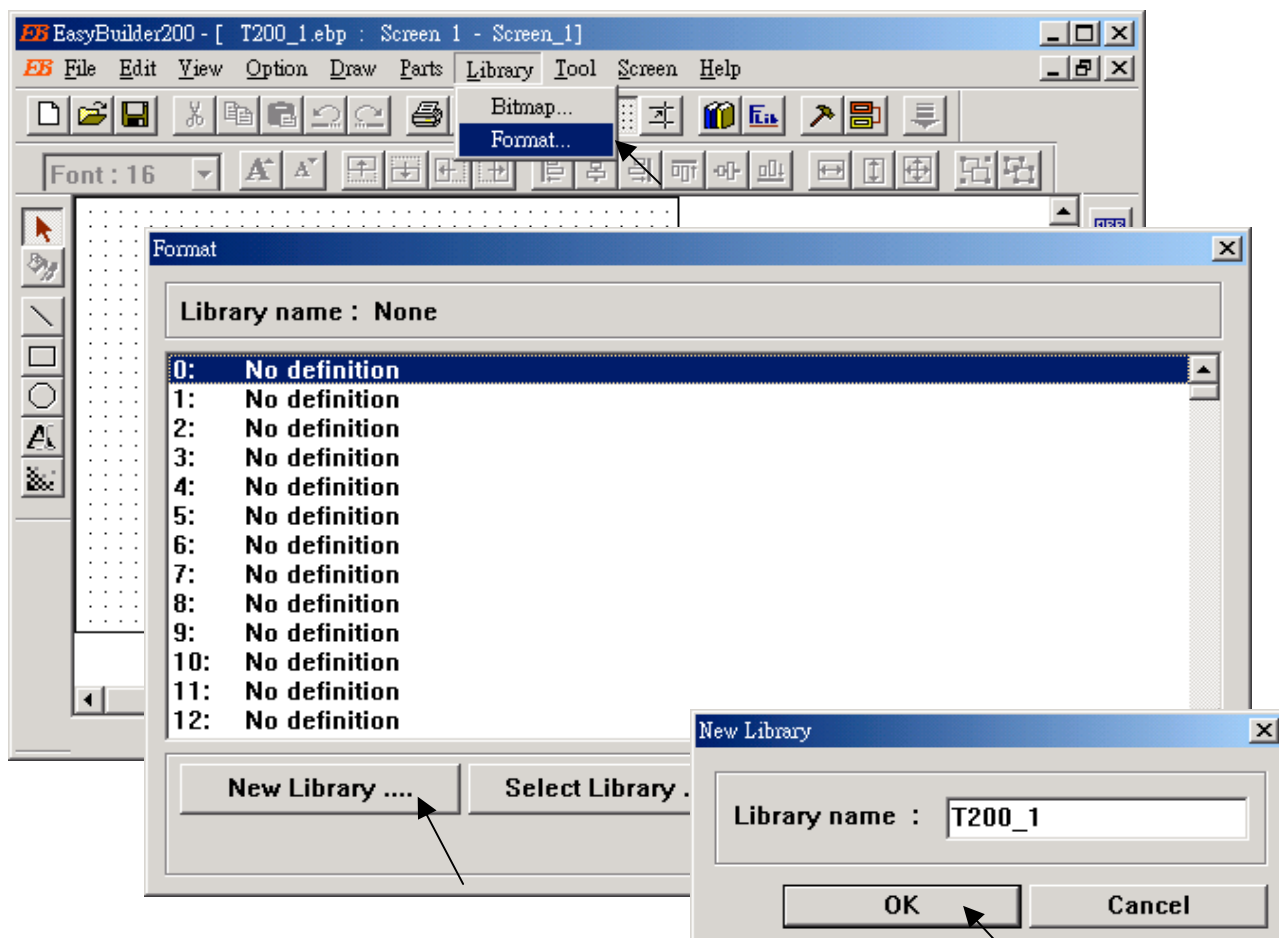
Please always run "EasyBuilder 200" like as below.



Save it to "Eb200\Project"



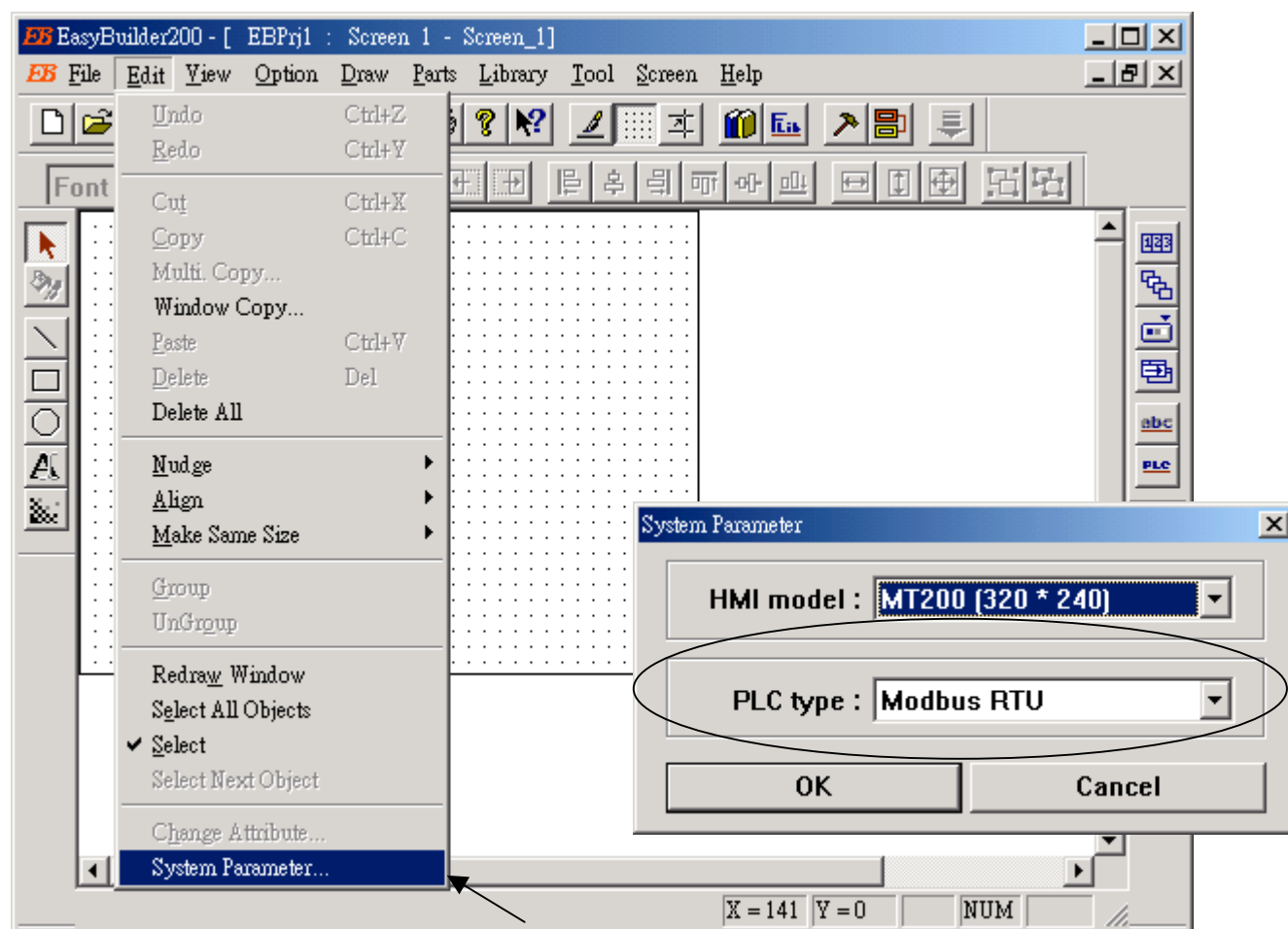
Add new item library



Click on "save"

Step 4: Set System Parameter

PLC type = Modbus RTU (I-8417/8817/8437/8837, 7188EG, 7188XG & other Modbus controller)

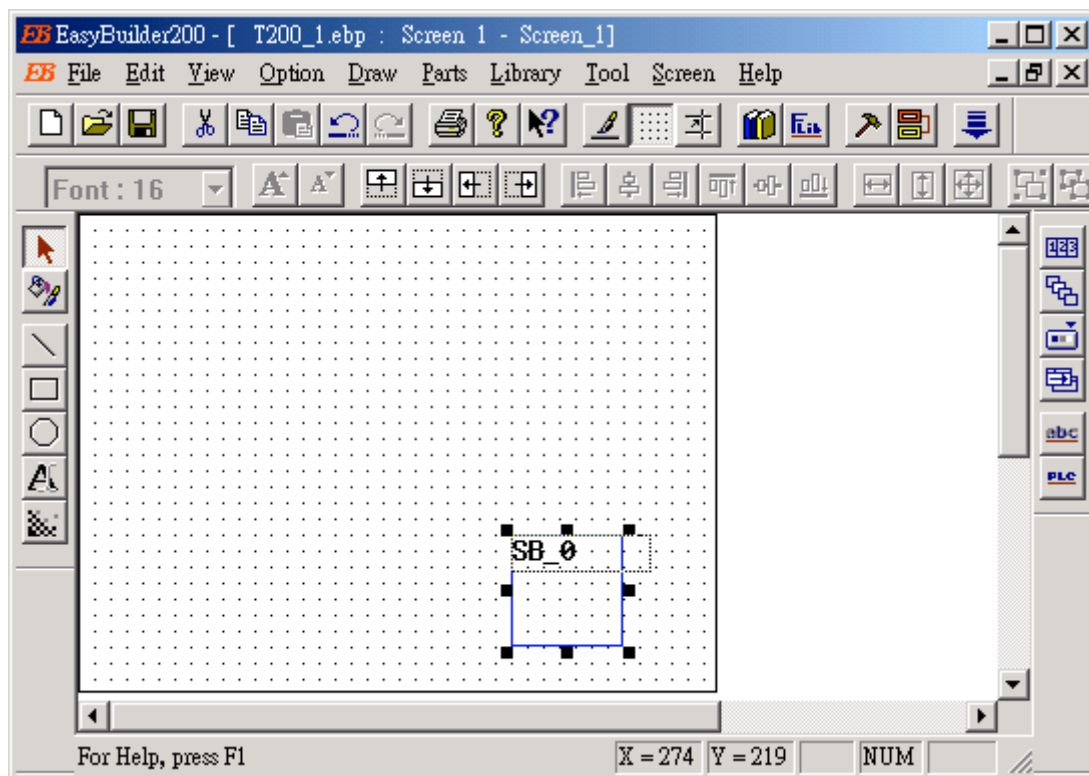
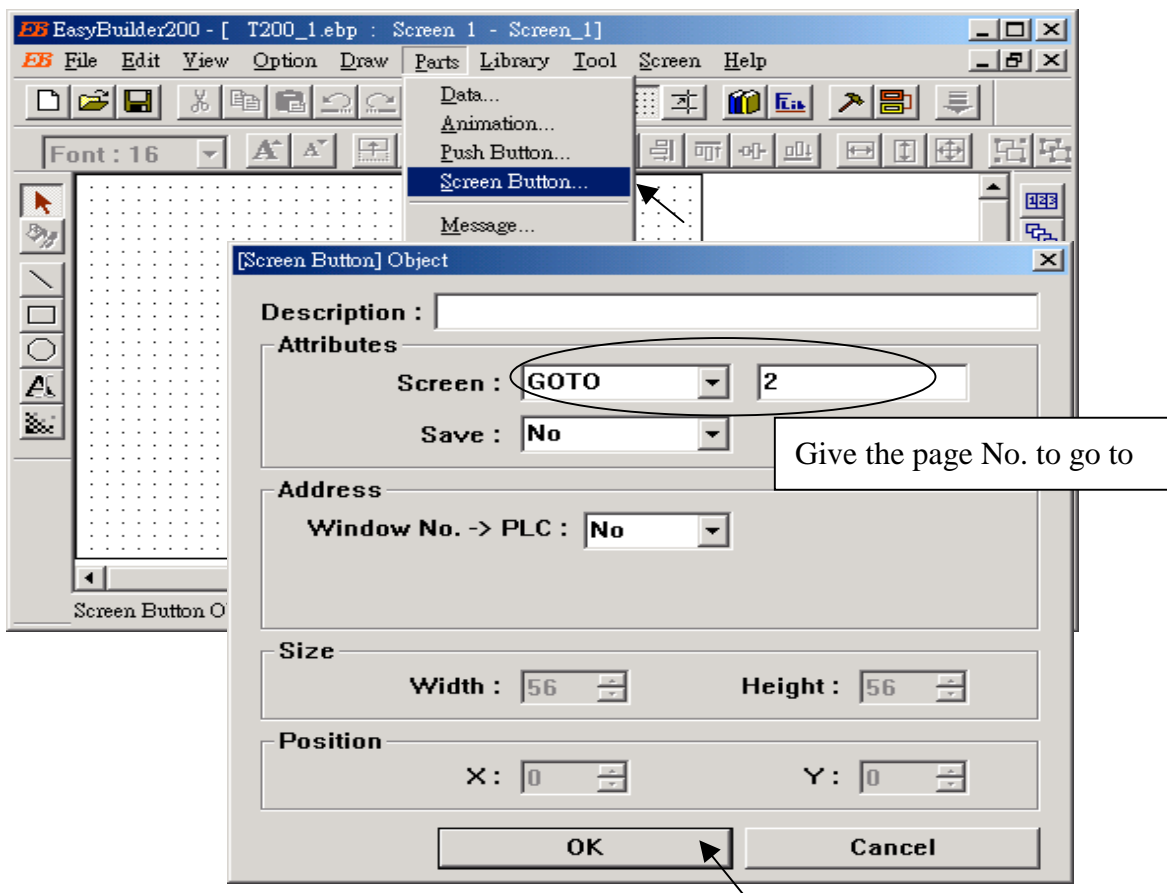


Save it.

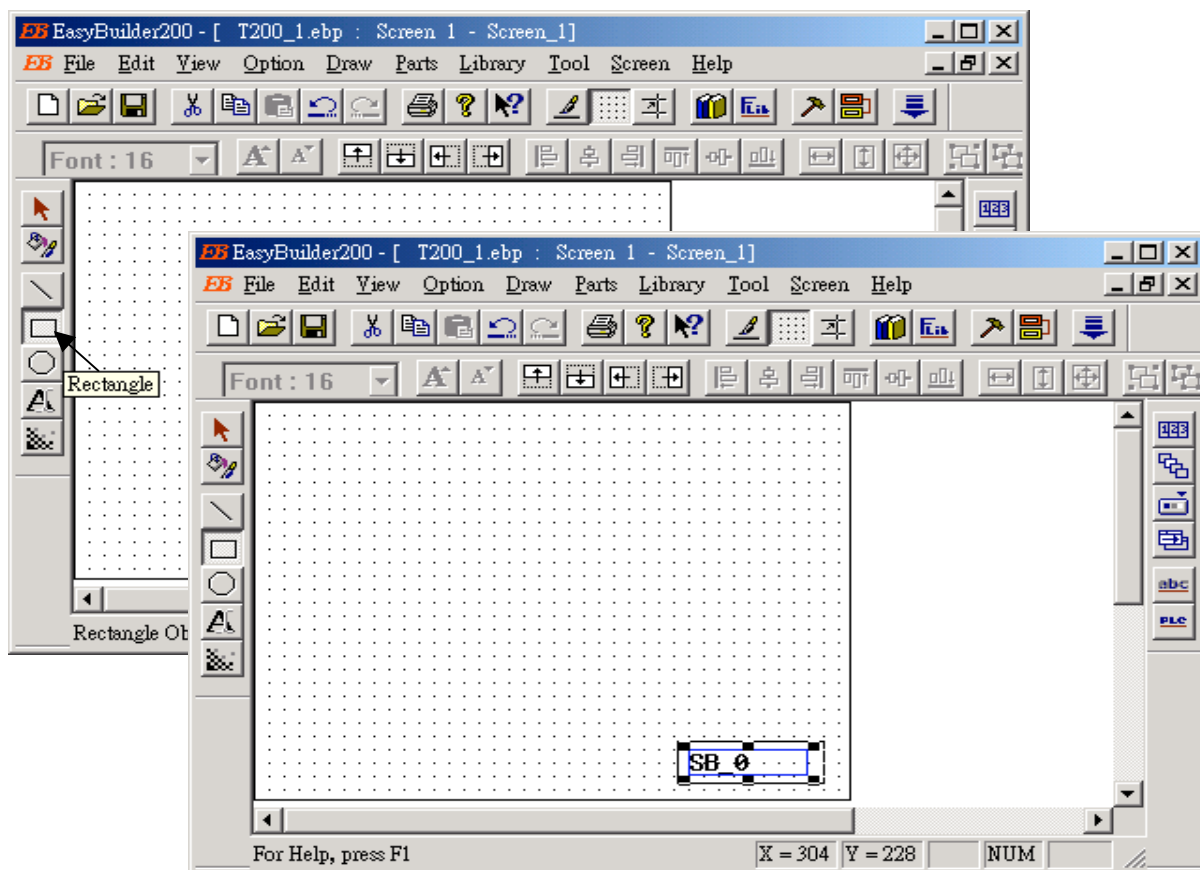
Step 5: Design

1. Screen button

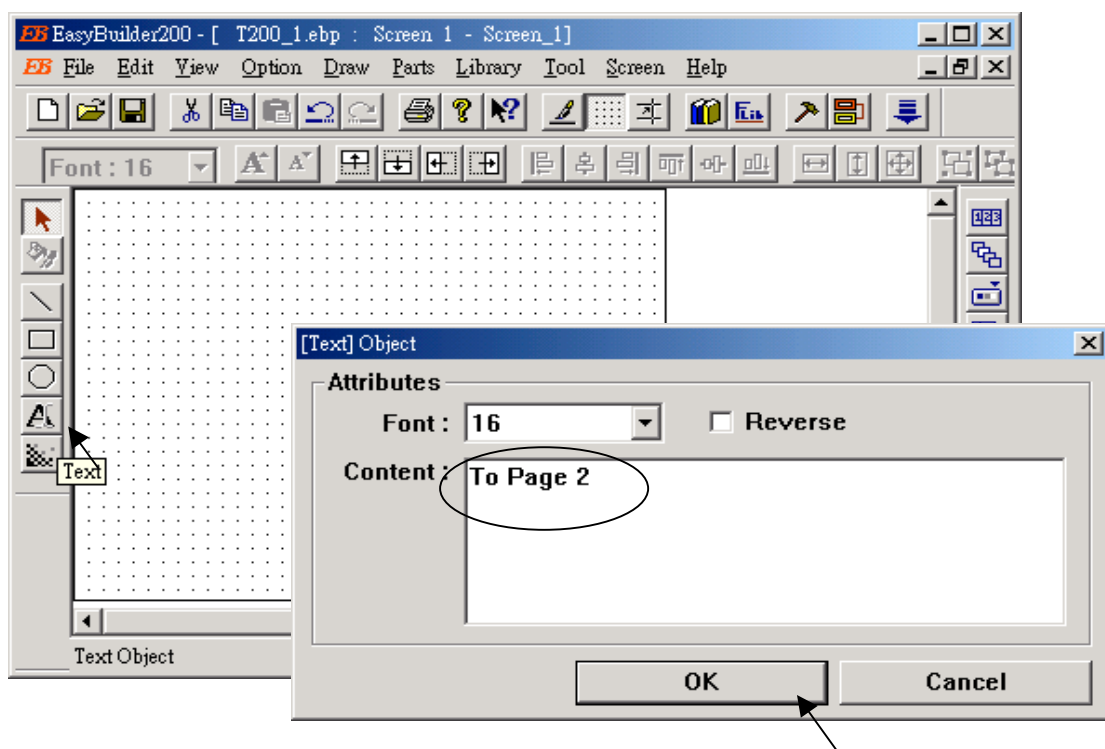
Add one "Screen Button" (Control area only)

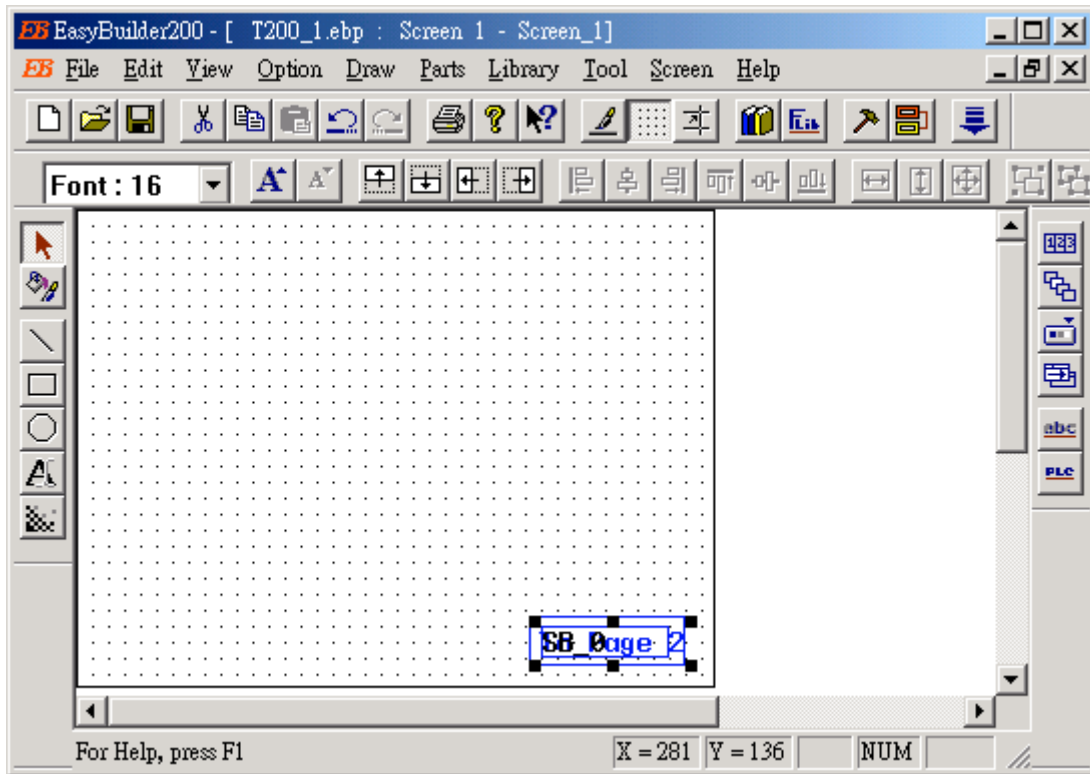


Add its shape.



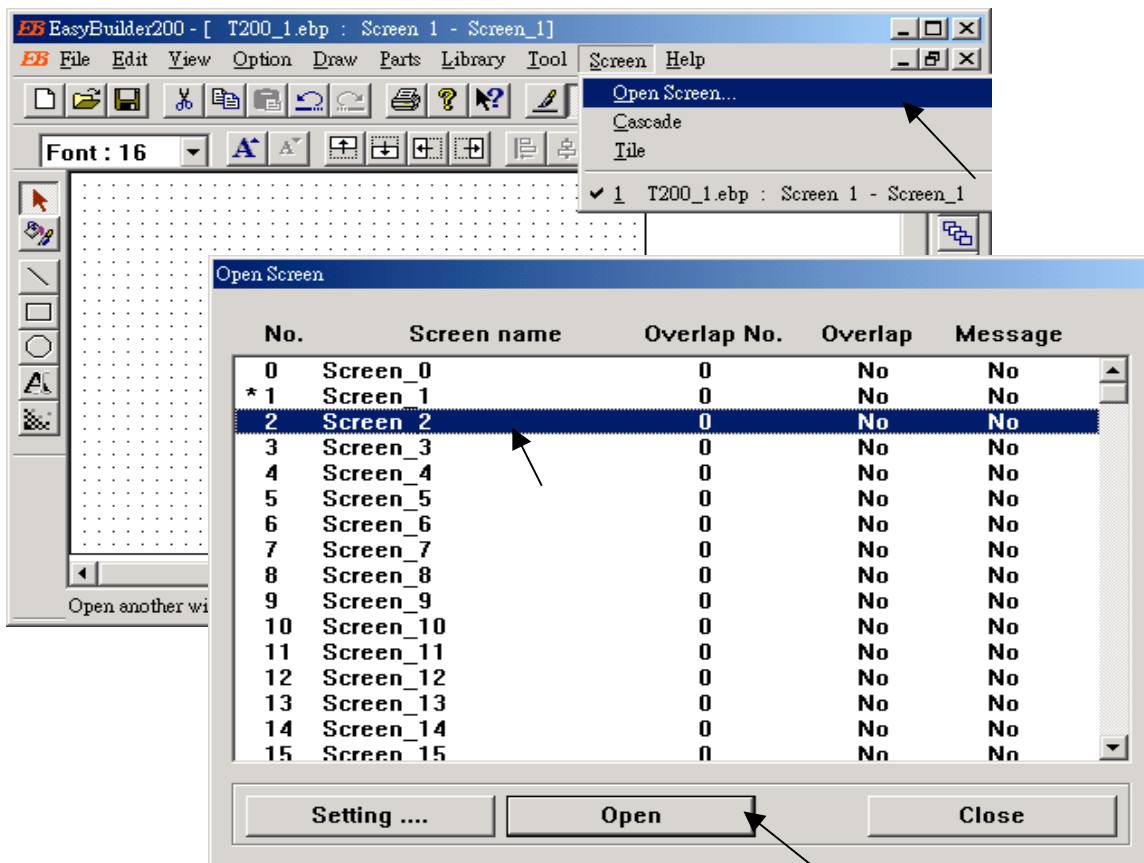
Add its text.



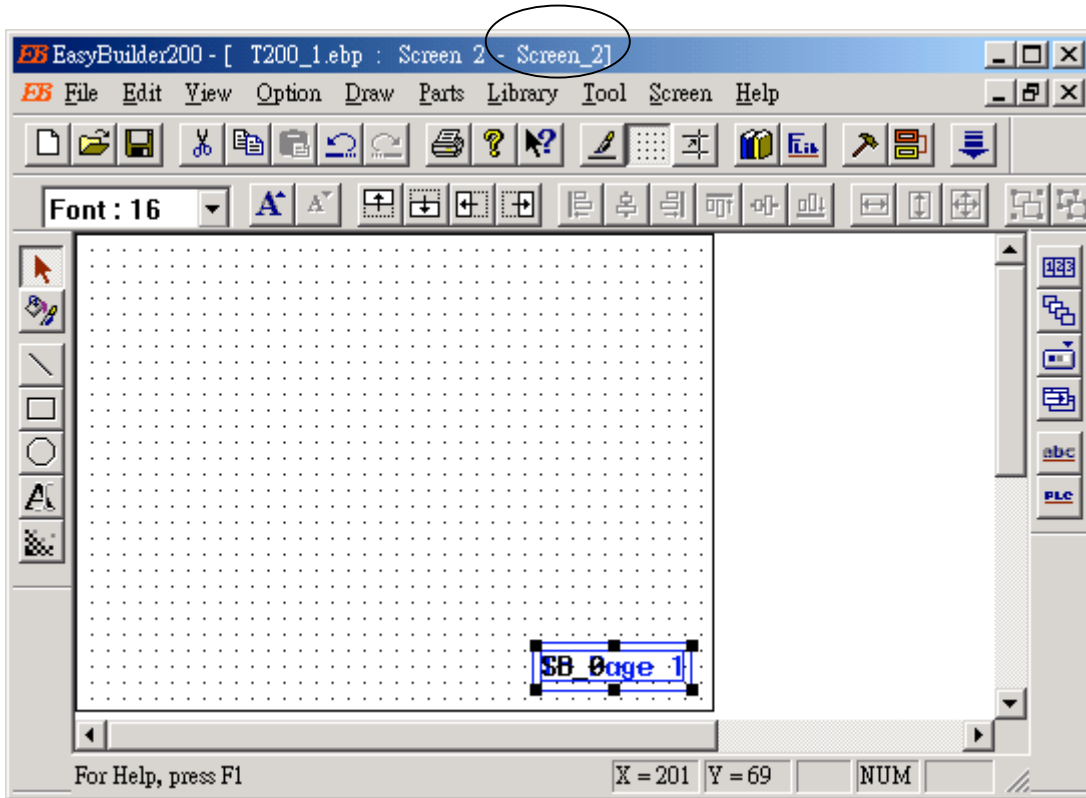


Then save it.

Now switch to Page 2 & create one another “Screen button” – “To page 1” to go back to Page 1 by the same method.



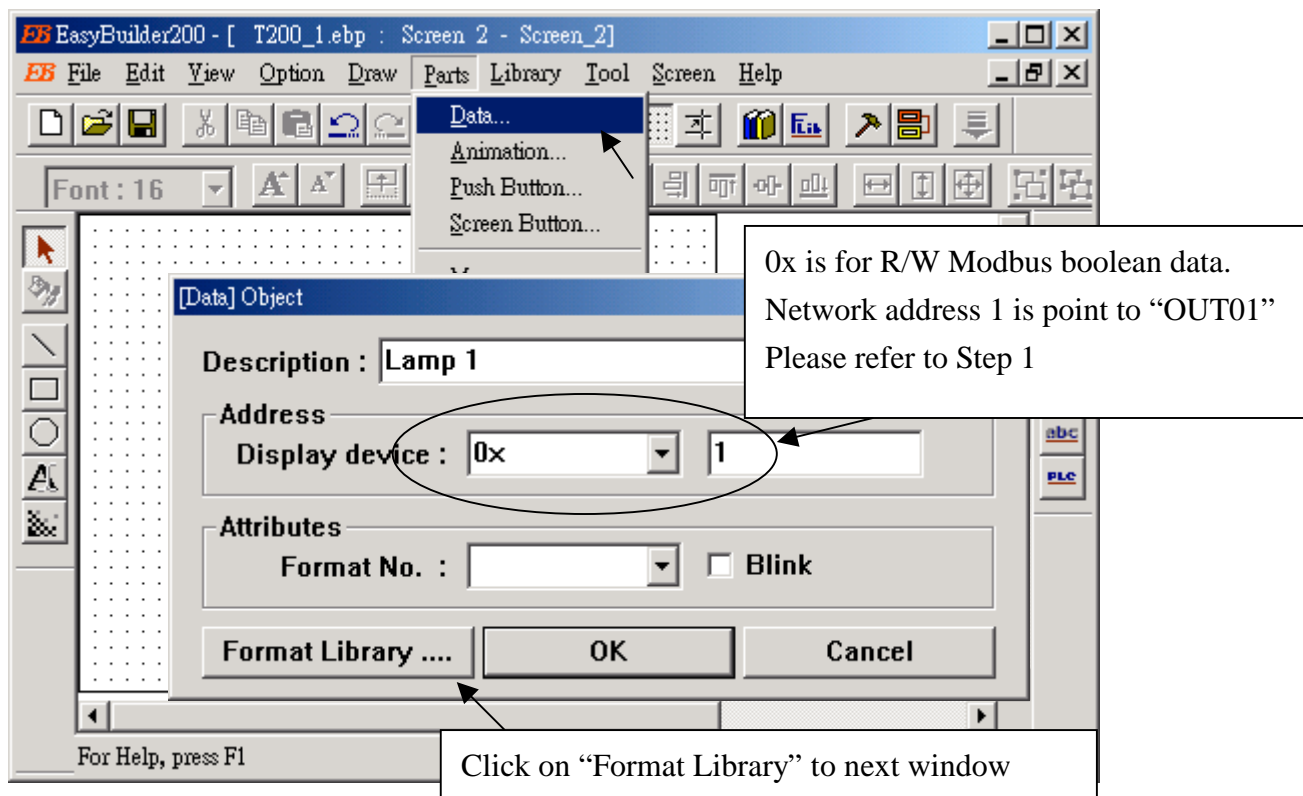
Then we have ...



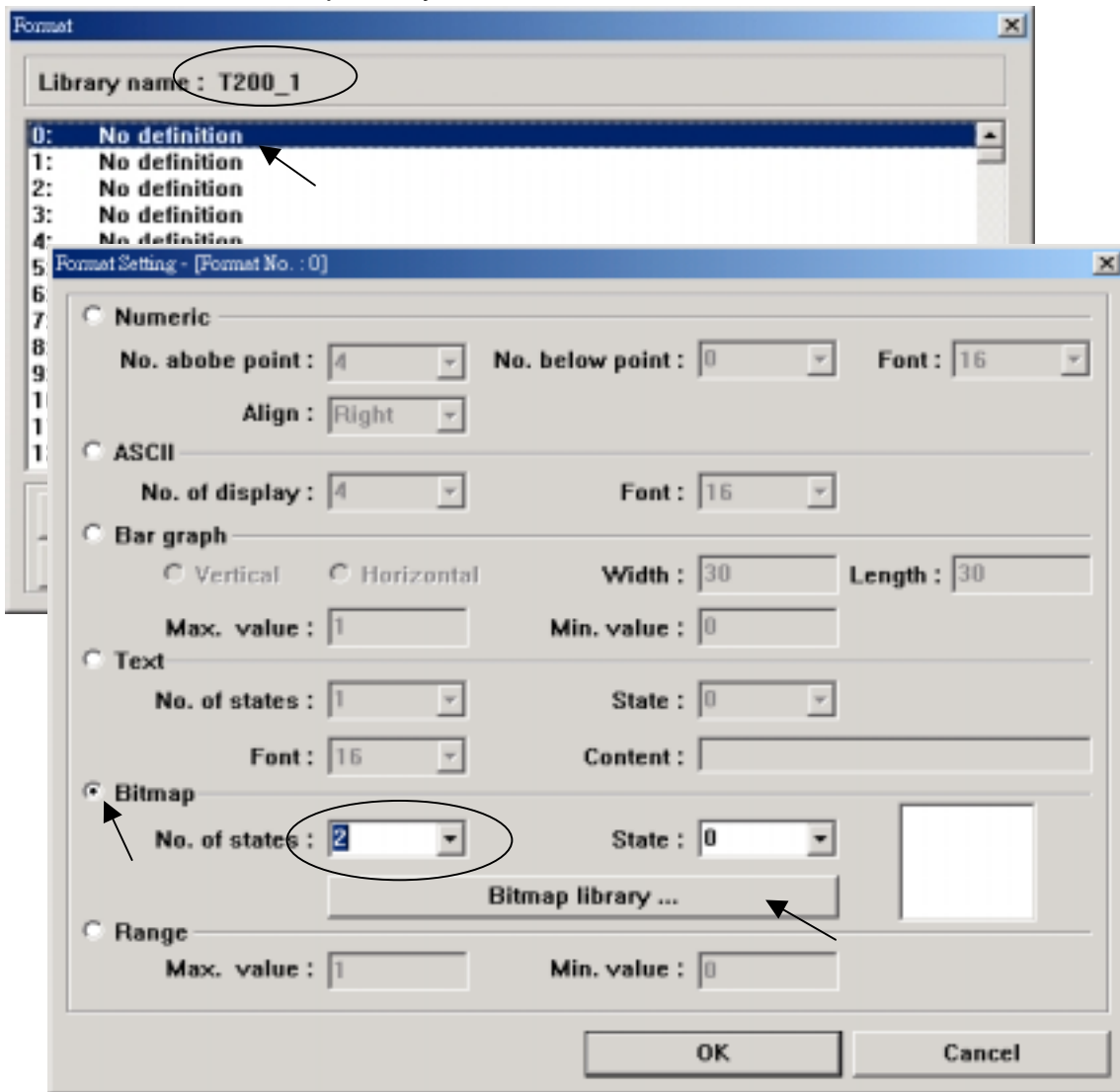
Save it.

2. Add Bitmap lamp

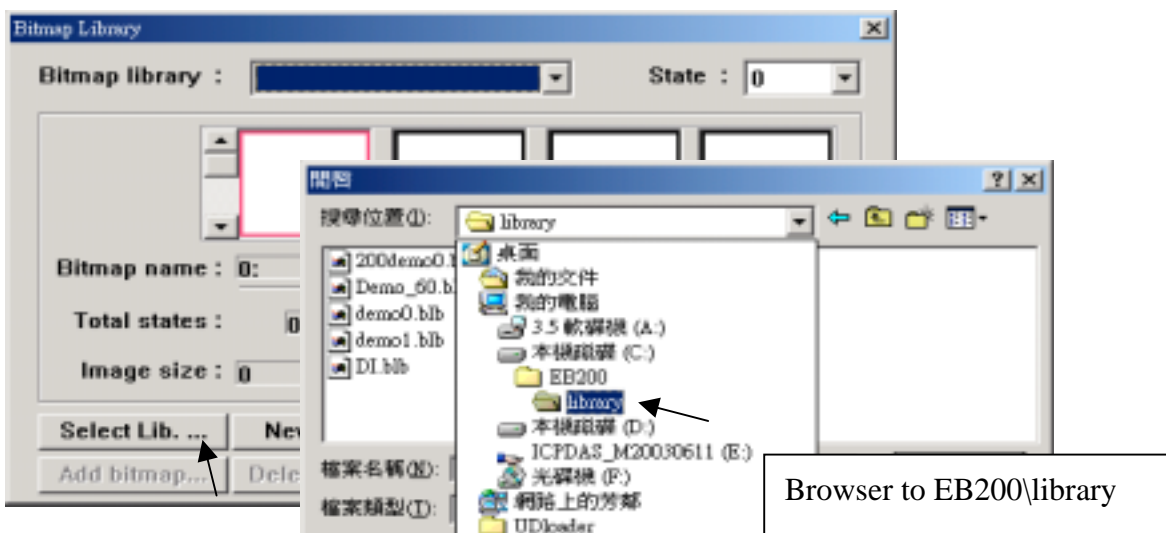
We are in page 2.

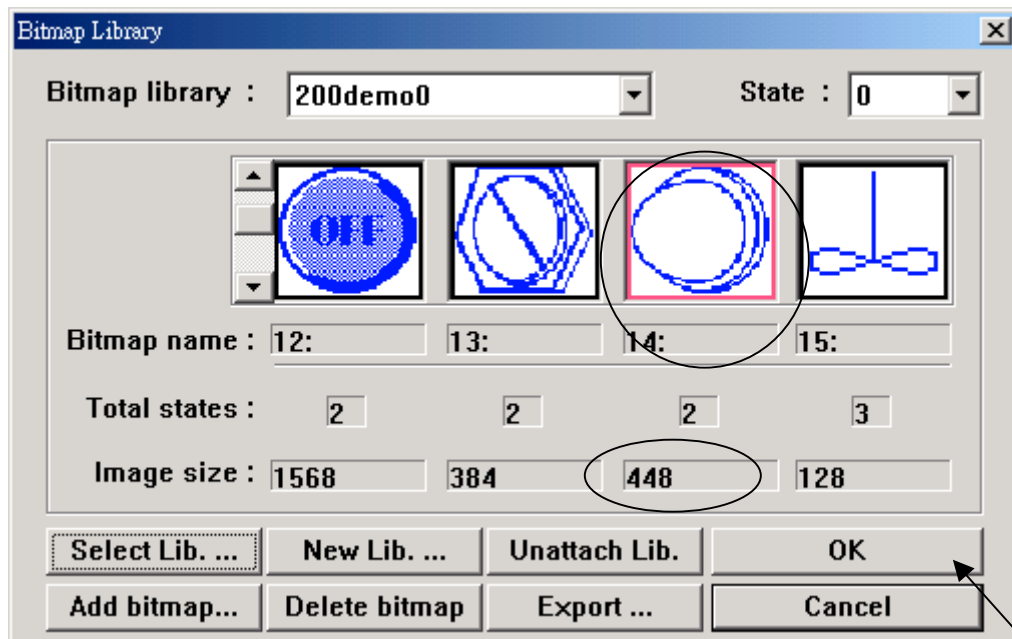


Check if the library name is correct. Then double click on No. 0: , Check on “Bitmap”, No. of states set to “2”, then click on “Bitmap library ...”

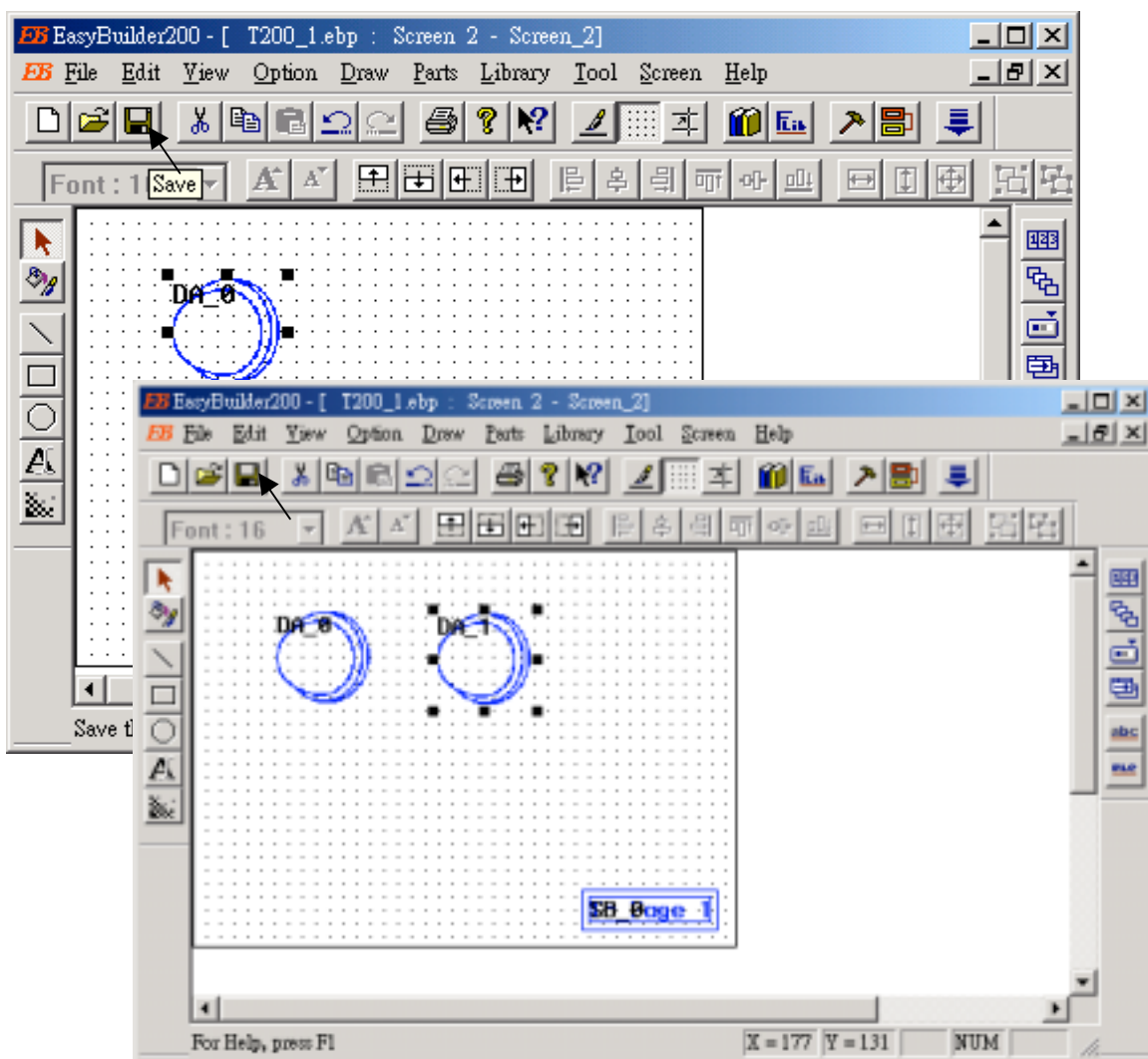


Click on “Select Lib ...”, then select “EB200\library\200demo0.blb”



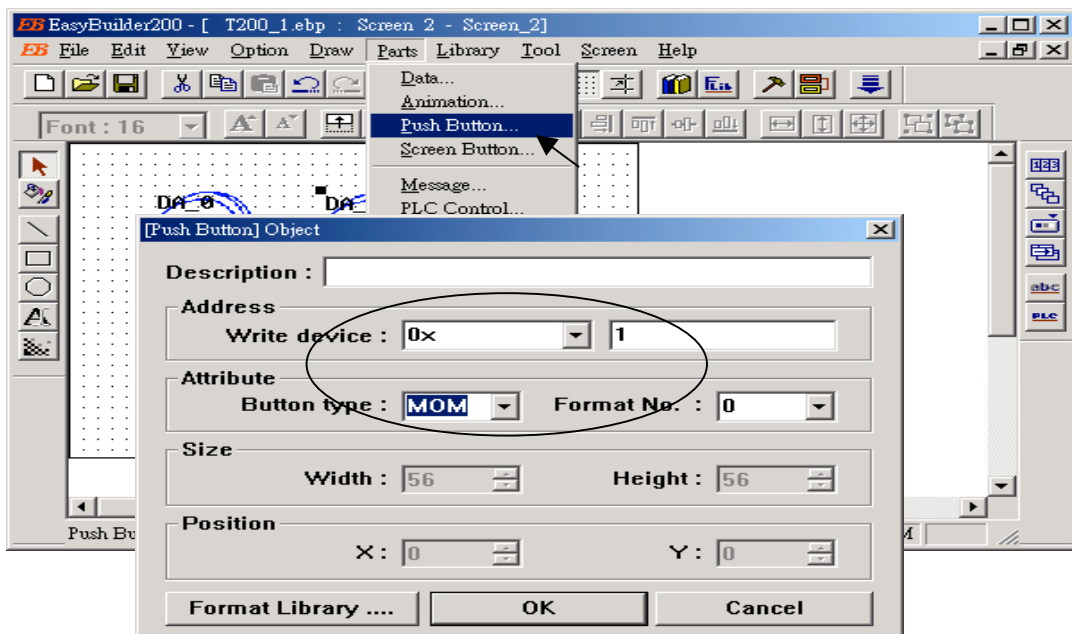


Create one another Bitmap Lamp by the same ways but with network address = 2.
Then Save it.

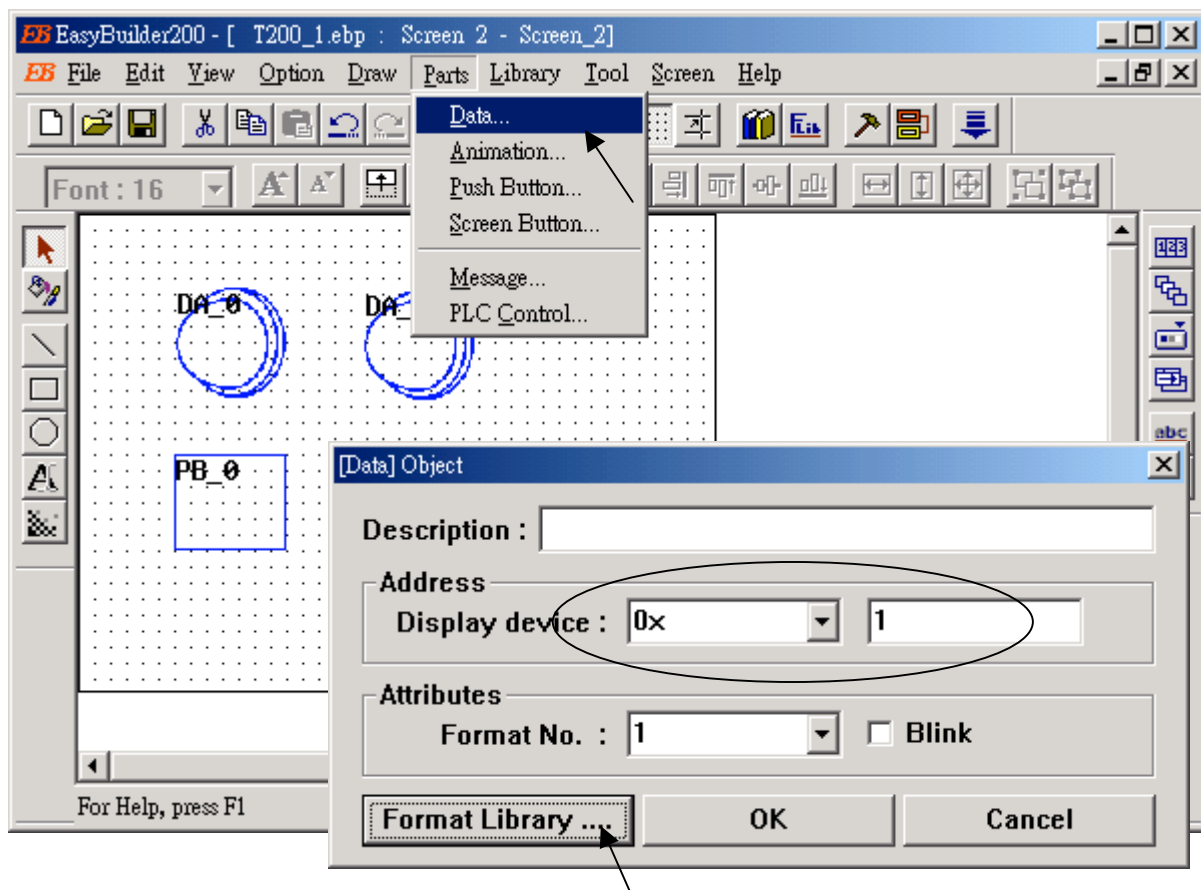


3. Add Push Button (Control area only)

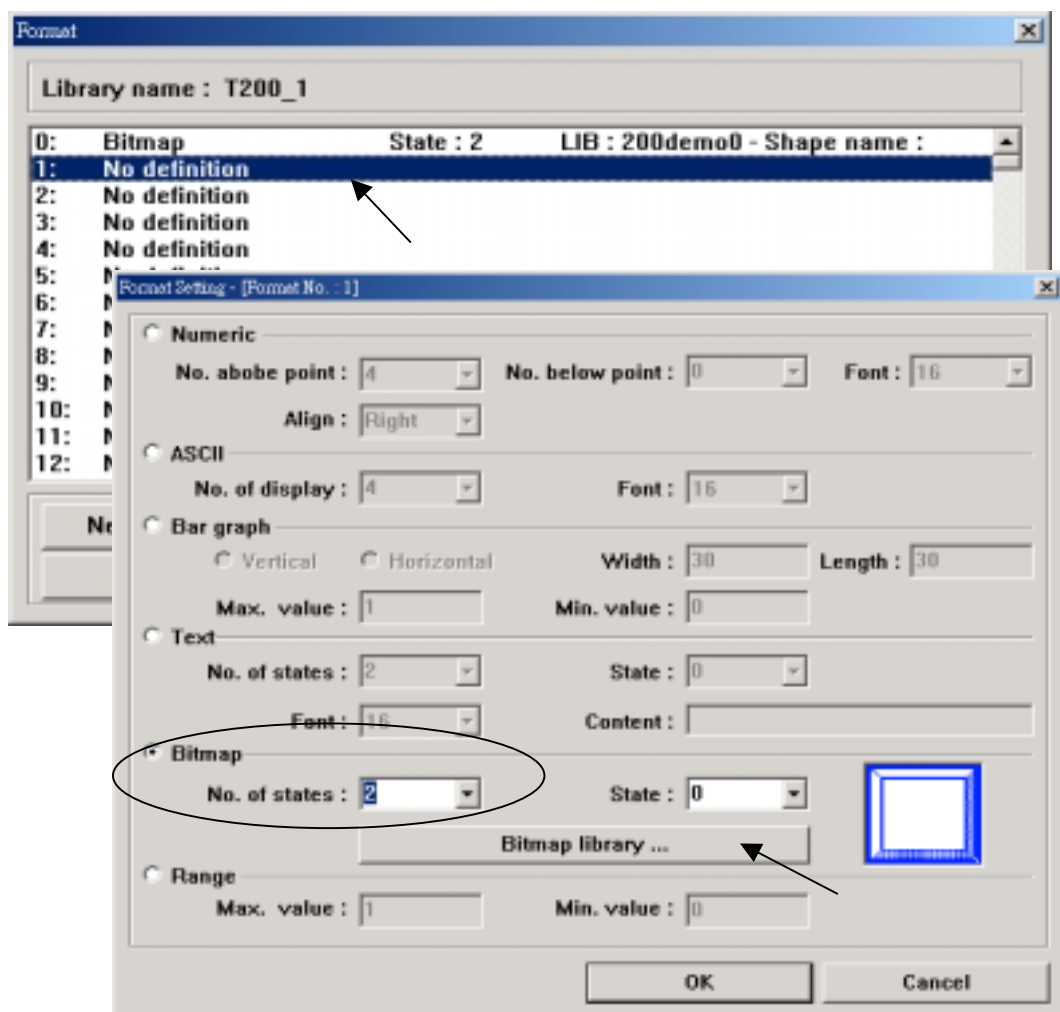
Select “write devices” as “0x”, “1”, “Button type” as ”MOM”, then click on “OK”.



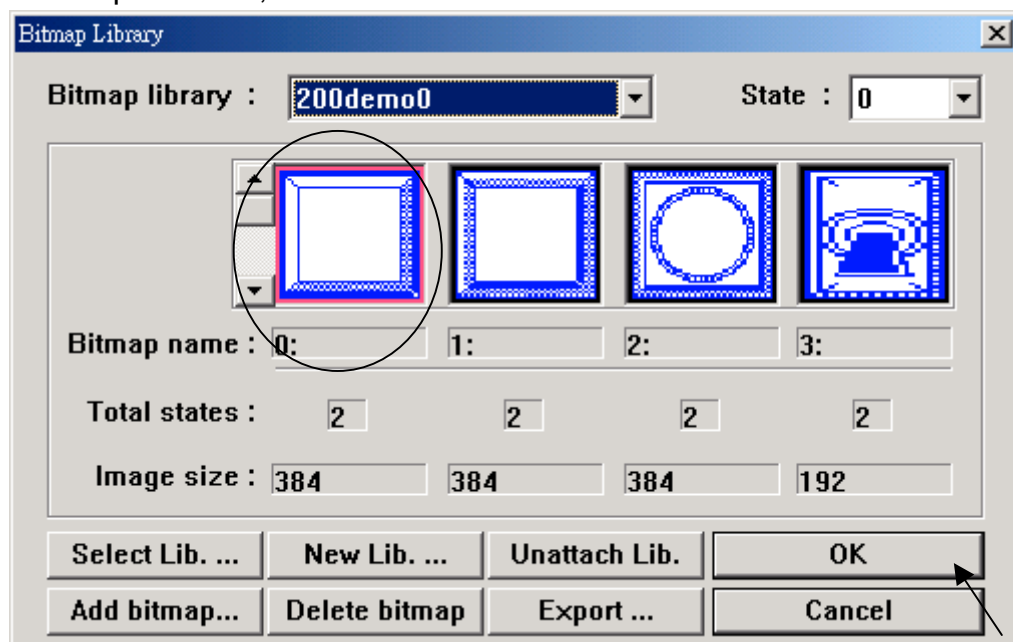
Then we are going to give a shape to it. The method is the same as adding a bitmap lamp.



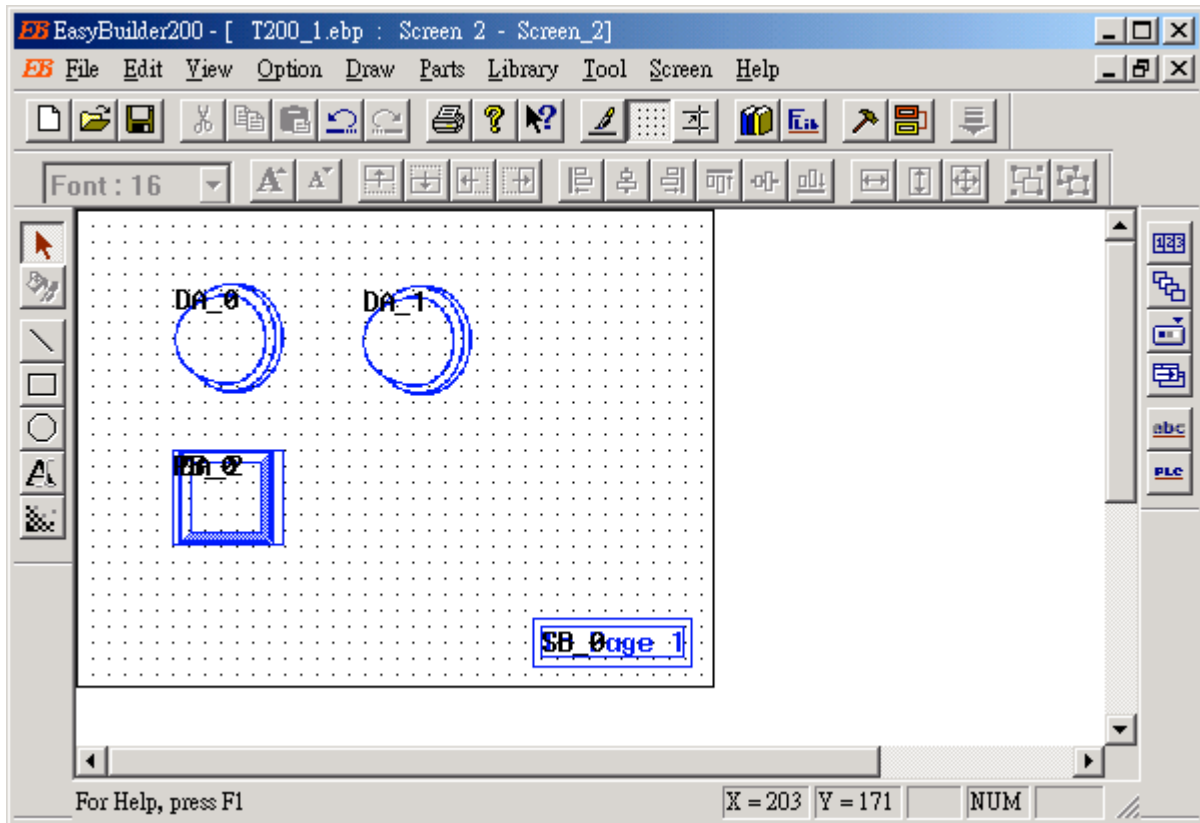
Double click on No. 1, Select “Bitmap”, set “No. of states” as “2”, then click on “Bitmap library...”



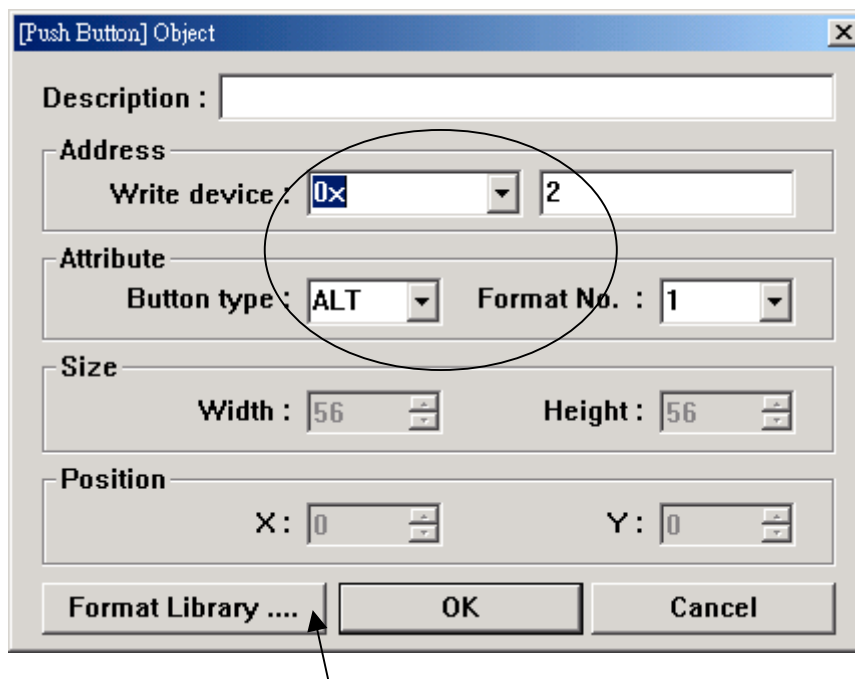
Select the prefer one, then click on “OK”



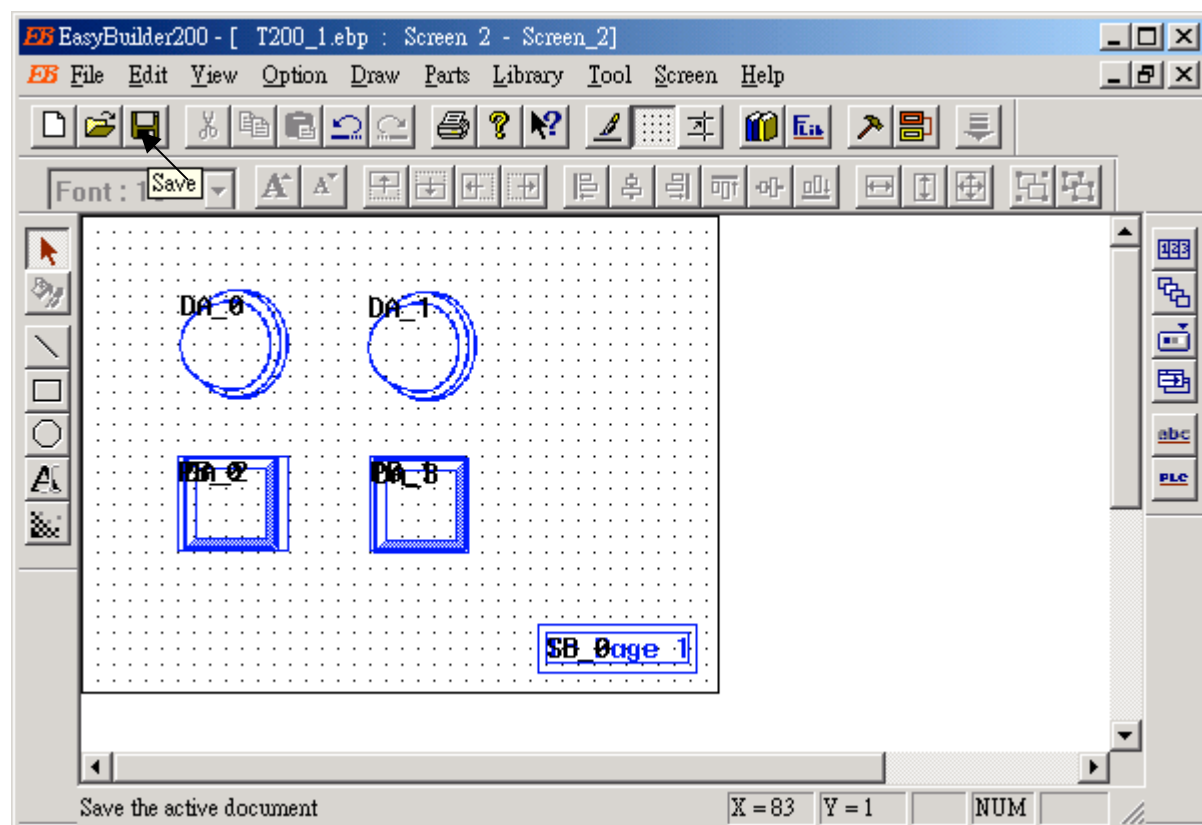
Then we have ...



By the same way as former but select “button type” as “ALT”, write devices as “0x” “2” to add one another Pushbutton (Control area & bitmap shape).

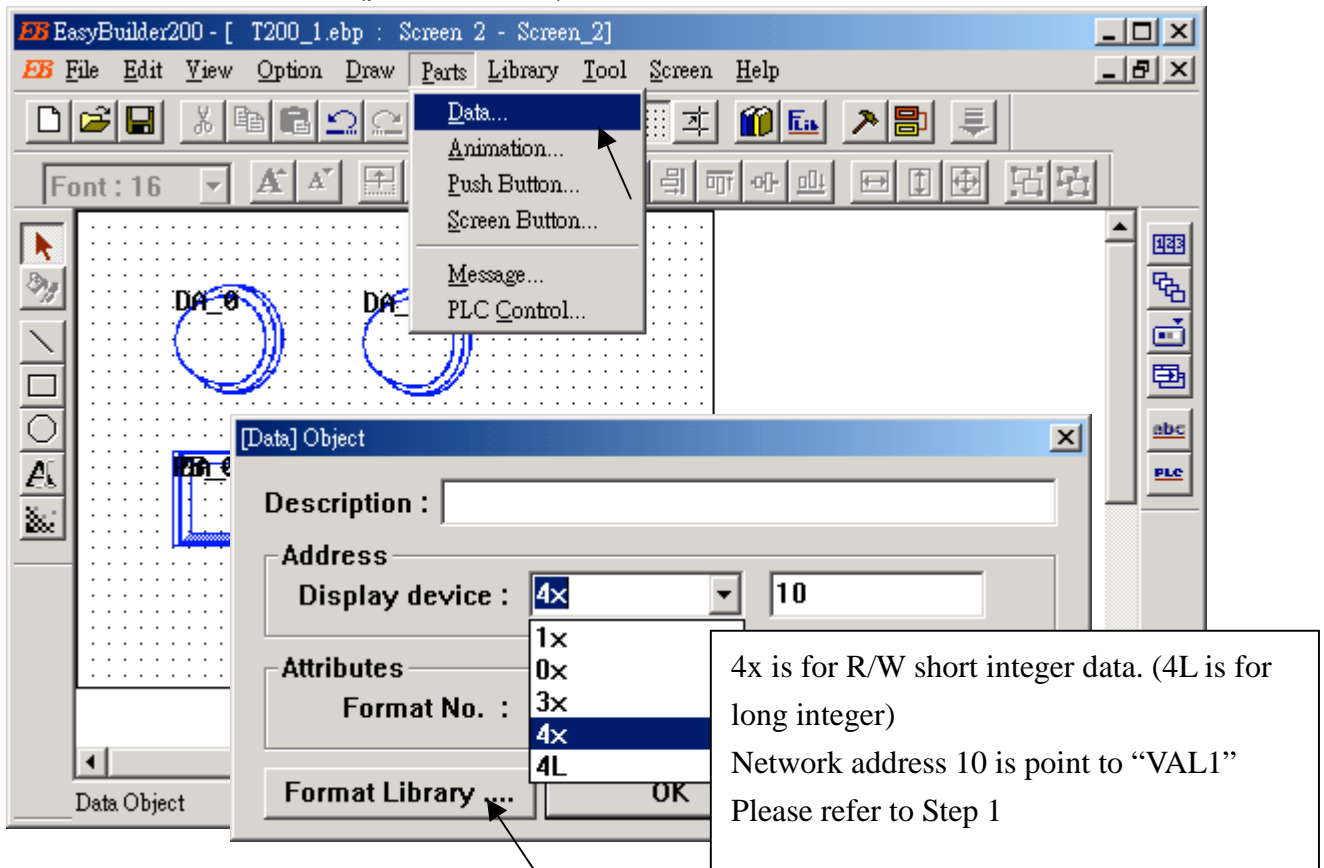


Save it.

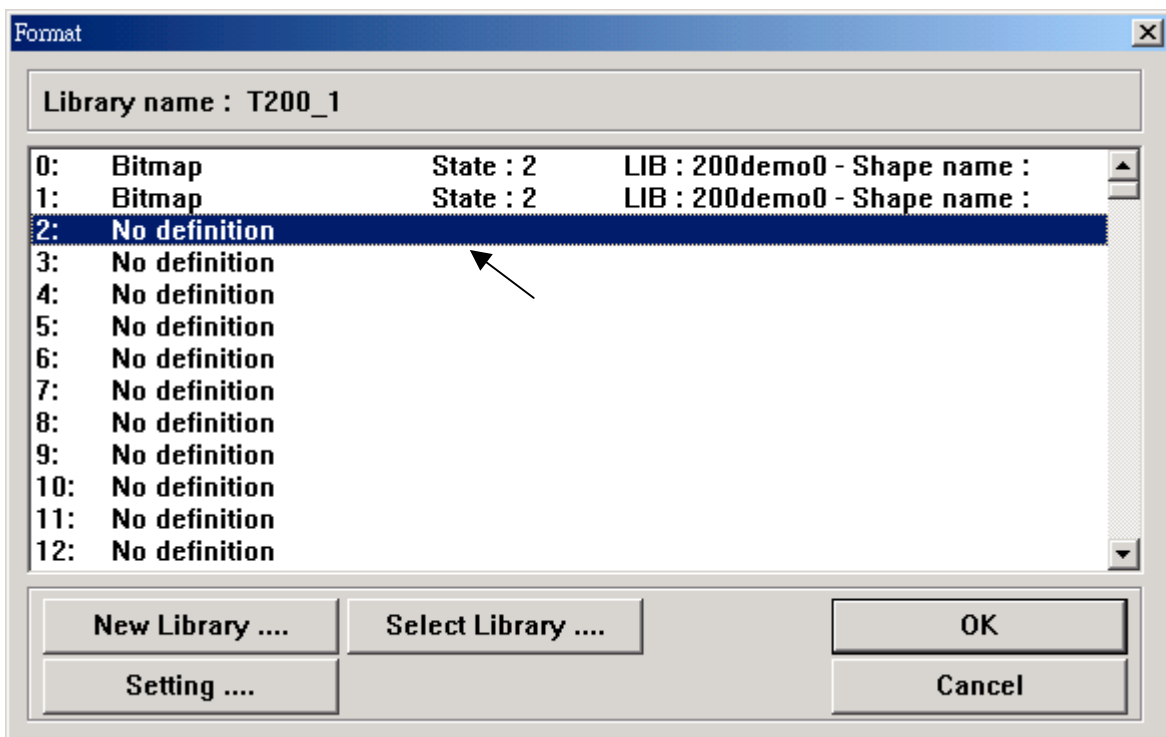


4. Add Numeric data

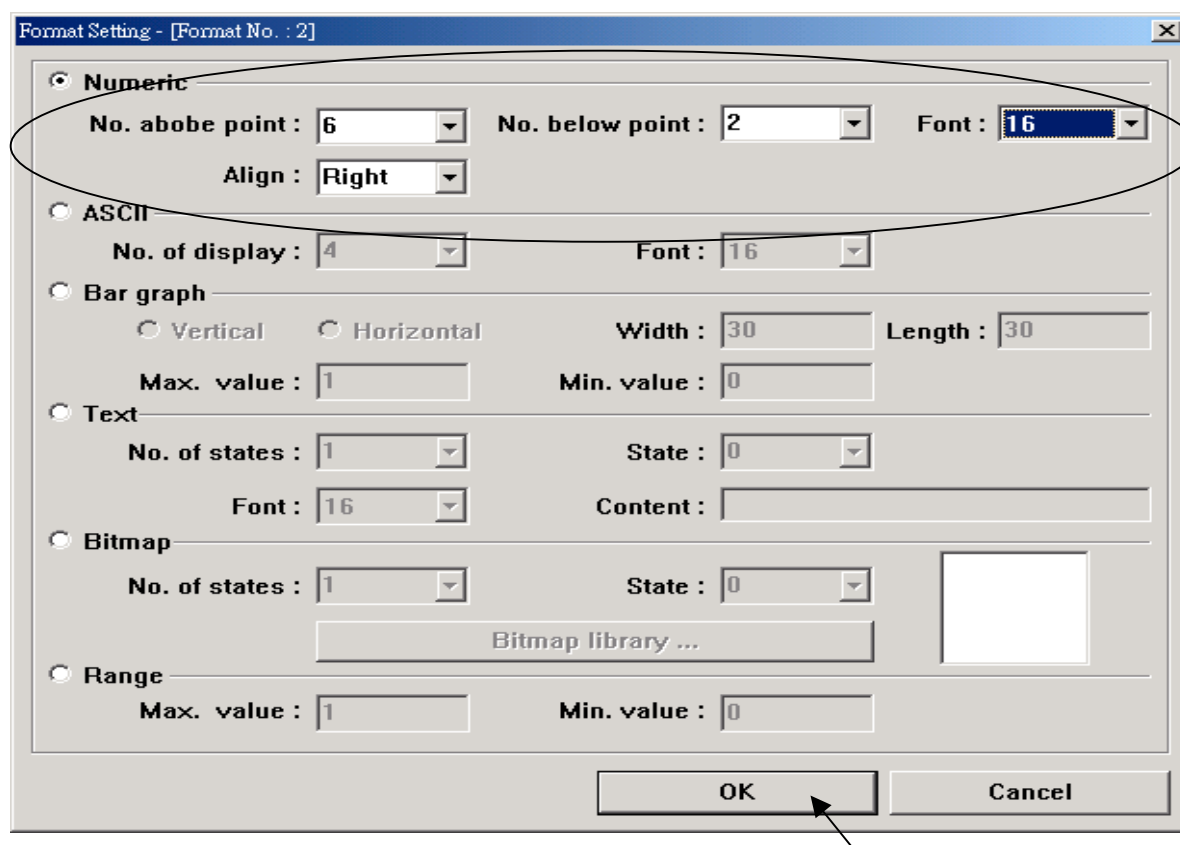
Select device as “4x” , “10” (point to VAL1)



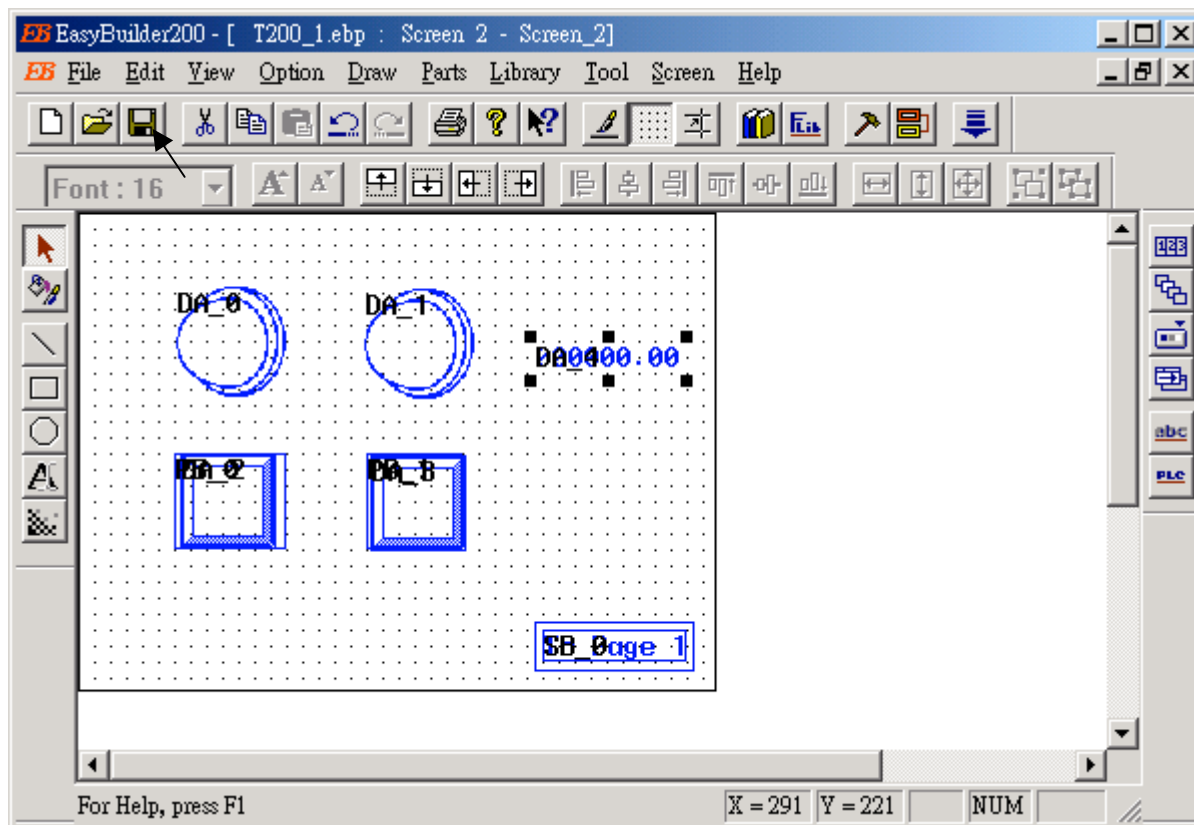
Double click on No. 2.



Check on "Numeric", then set preferred data.

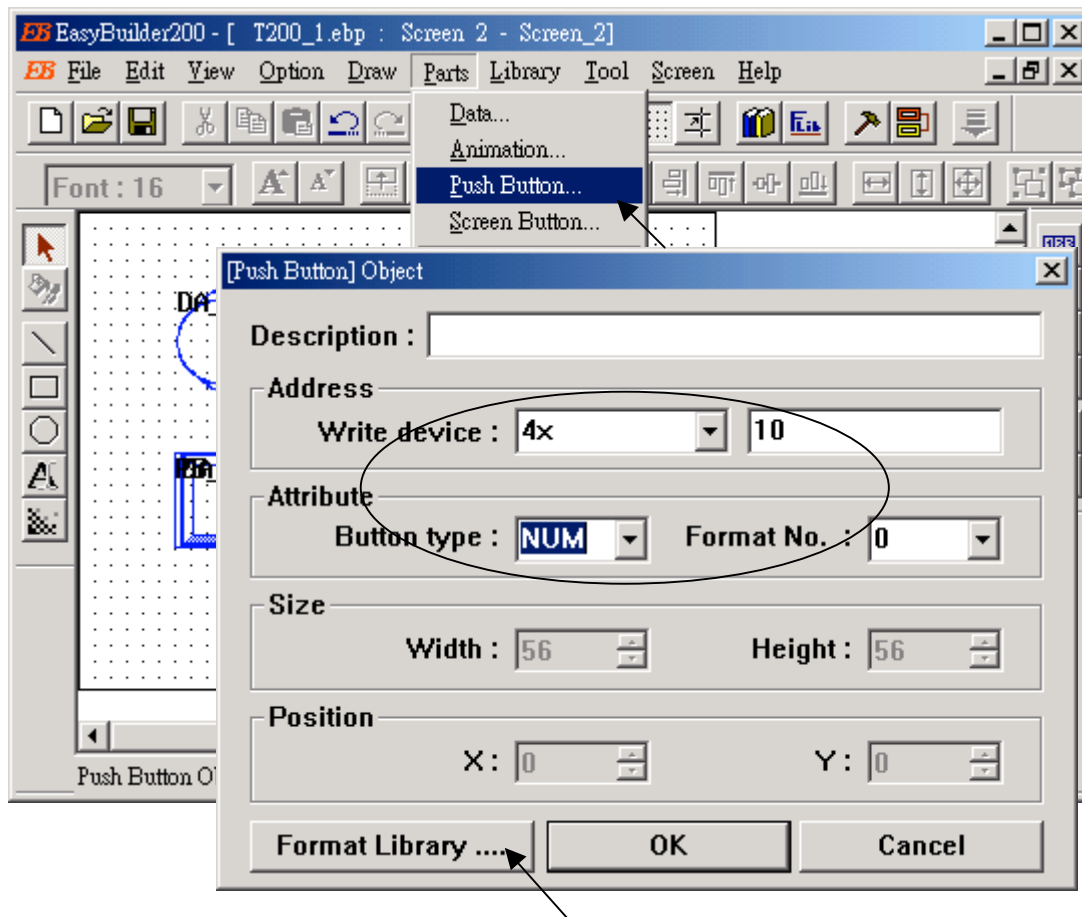


The we have ...

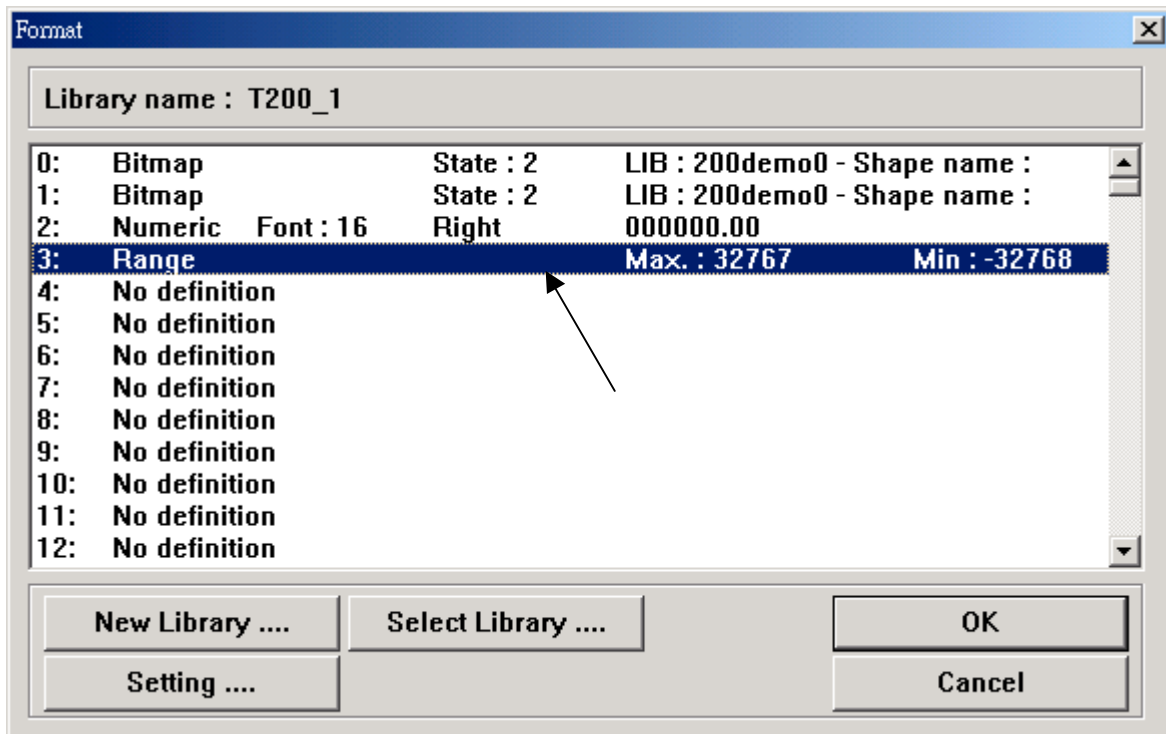


5. Add Numeric button (Control area only)

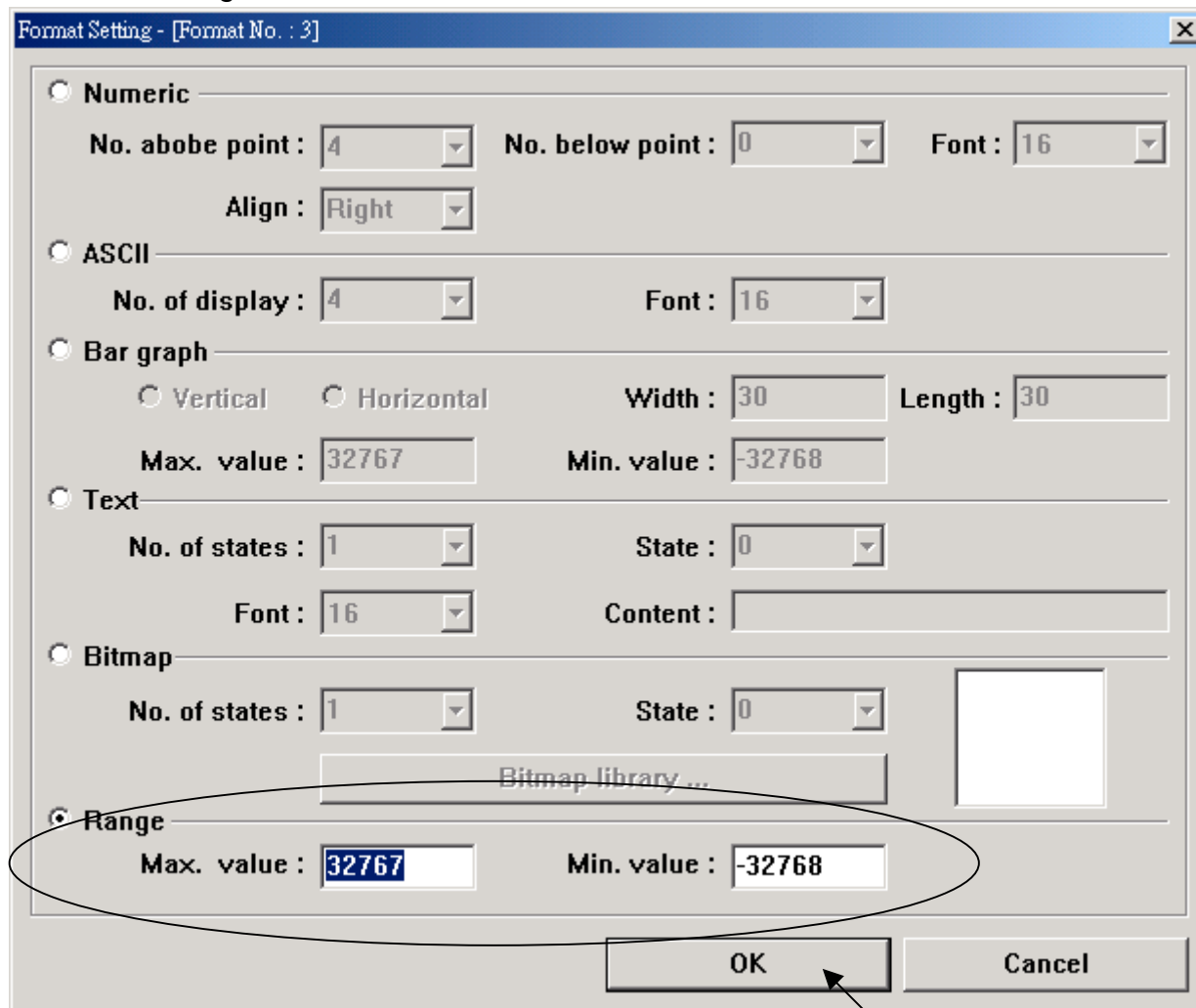
Set device as “4x”, “10”, button type as “NUM”, then click on Format library ...



Double click on No. 3

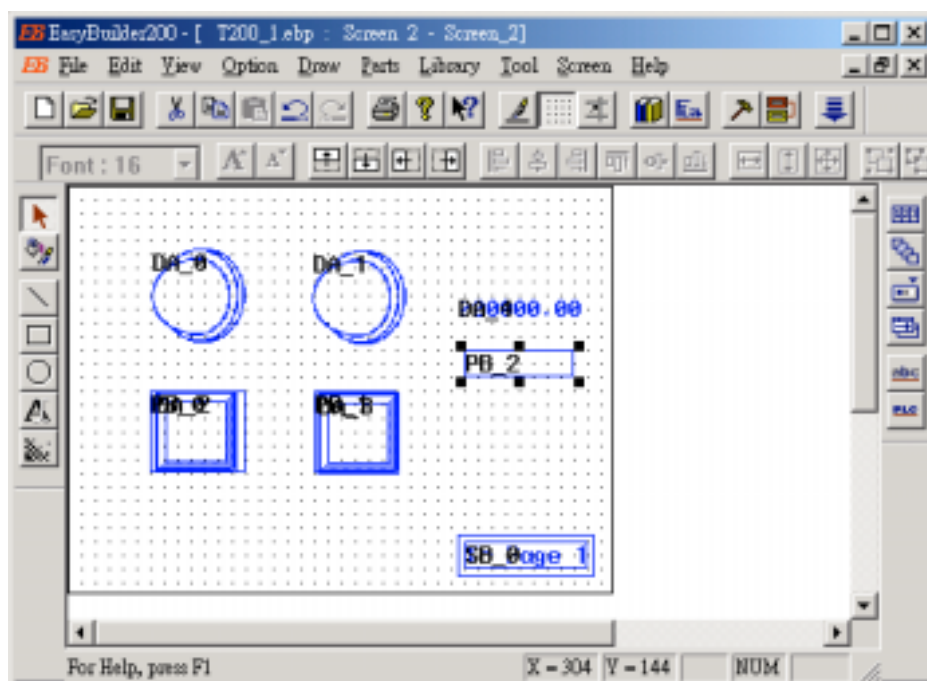


Check on “Range”, then set Min. & Max value, then click on “OK”

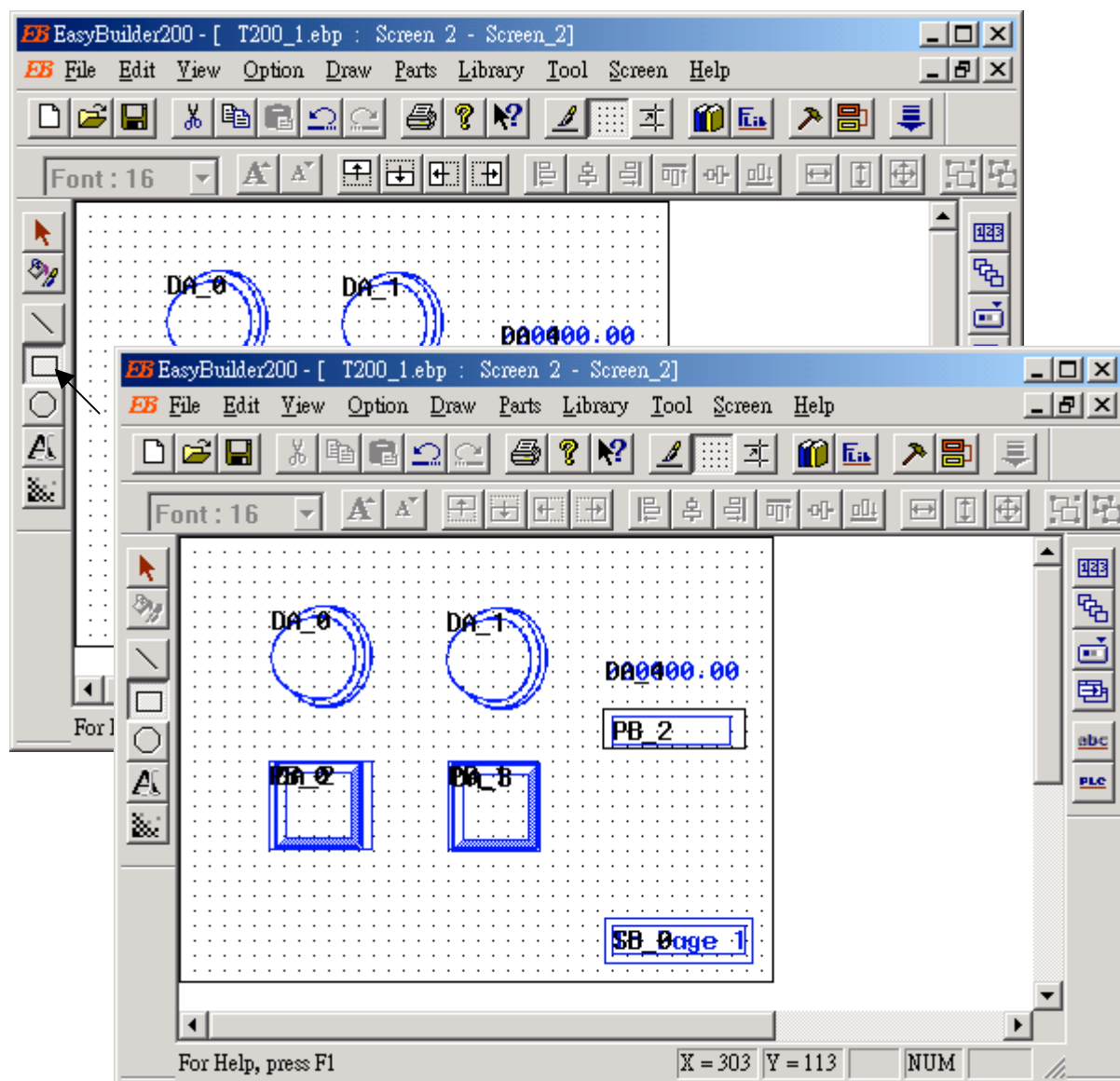


The image shows a 'Format Setting' dialog box with a title bar that reads 'Format Setting - [Format No. : 3]'. It contains several radio buttons for different display formats: 'Numeric', 'ASCII', 'Bar graph', 'Text', 'Bitmap', and 'Range'. The 'Range' option is selected and circled with a black oval. Within the 'Range' section, the 'Max. value' is set to '32767' and the 'Min. value' is set to '-32768'. Other sections include 'Numeric' (with 'No. above point' at 4, 'No. below point' at 0, 'Align' at 'Right', and 'Font' at 16), 'ASCII' (with 'No. of display' at 4 and 'Font' at 16), 'Bar graph' (with 'Vertical' and 'Horizontal' options, 'Width' at 30, 'Length' at 30, 'Max. value' at 32767, and 'Min. value' at -32768), 'Text' (with 'No. of states' at 1, 'State' at 0, 'Font' at 16, and a 'Content' field), and 'Bitmap' (with 'No. of states' at 1, 'State' at 0, and a 'Bitmap library' field). At the bottom right, there are 'OK' and 'Cancel' buttons. An arrow points to the 'OK' button.

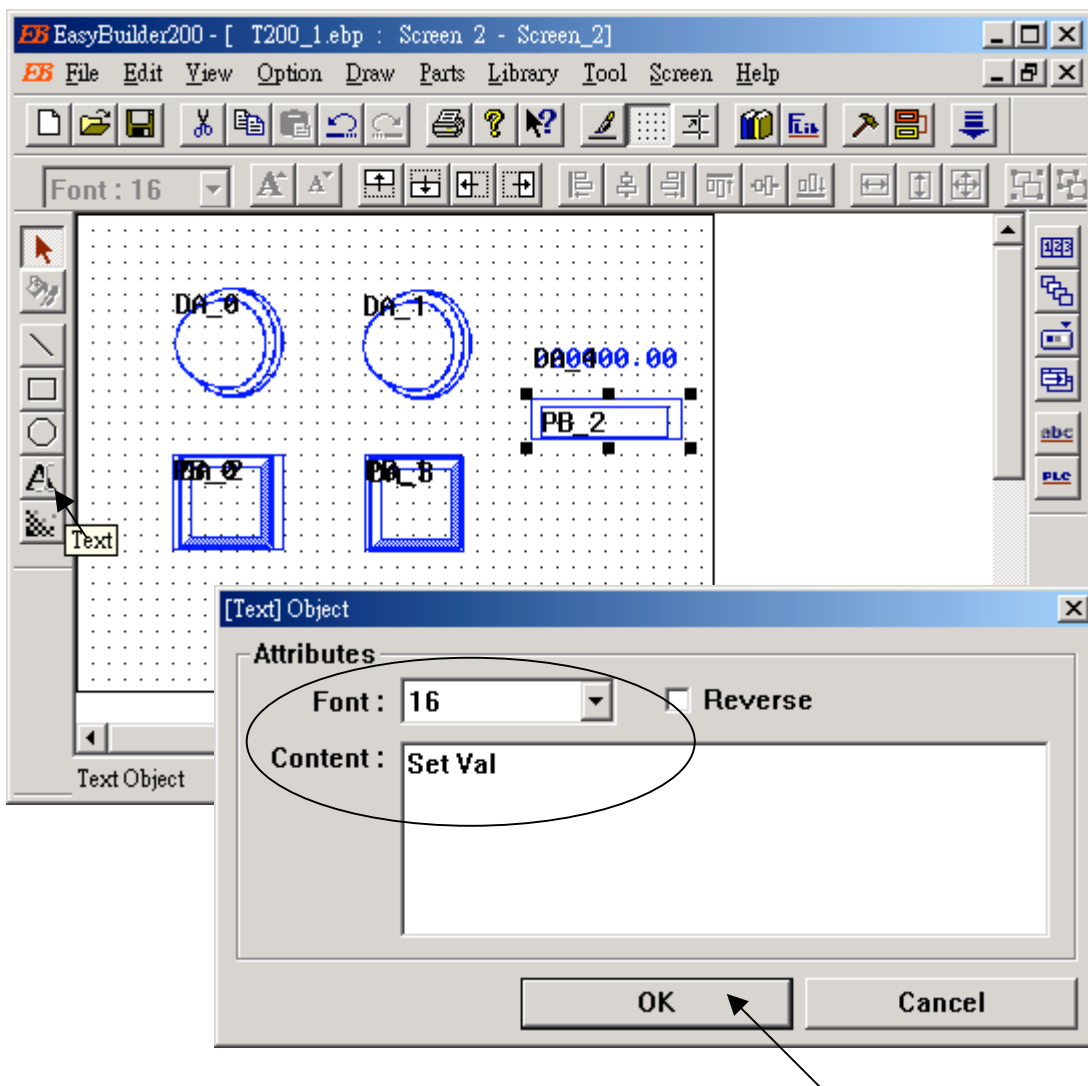
The we have.



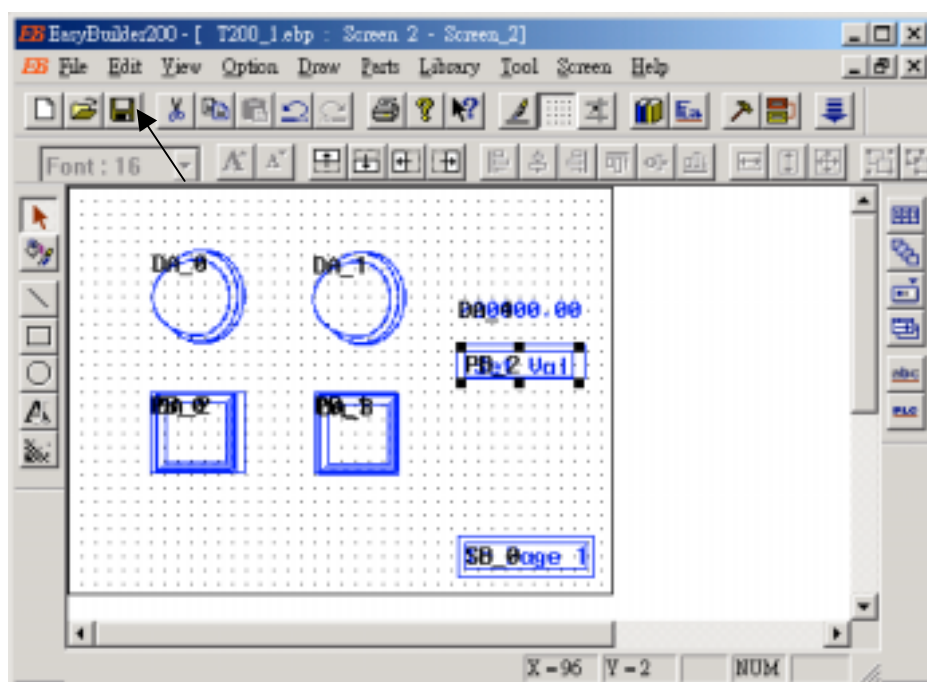
Add a shape to it.



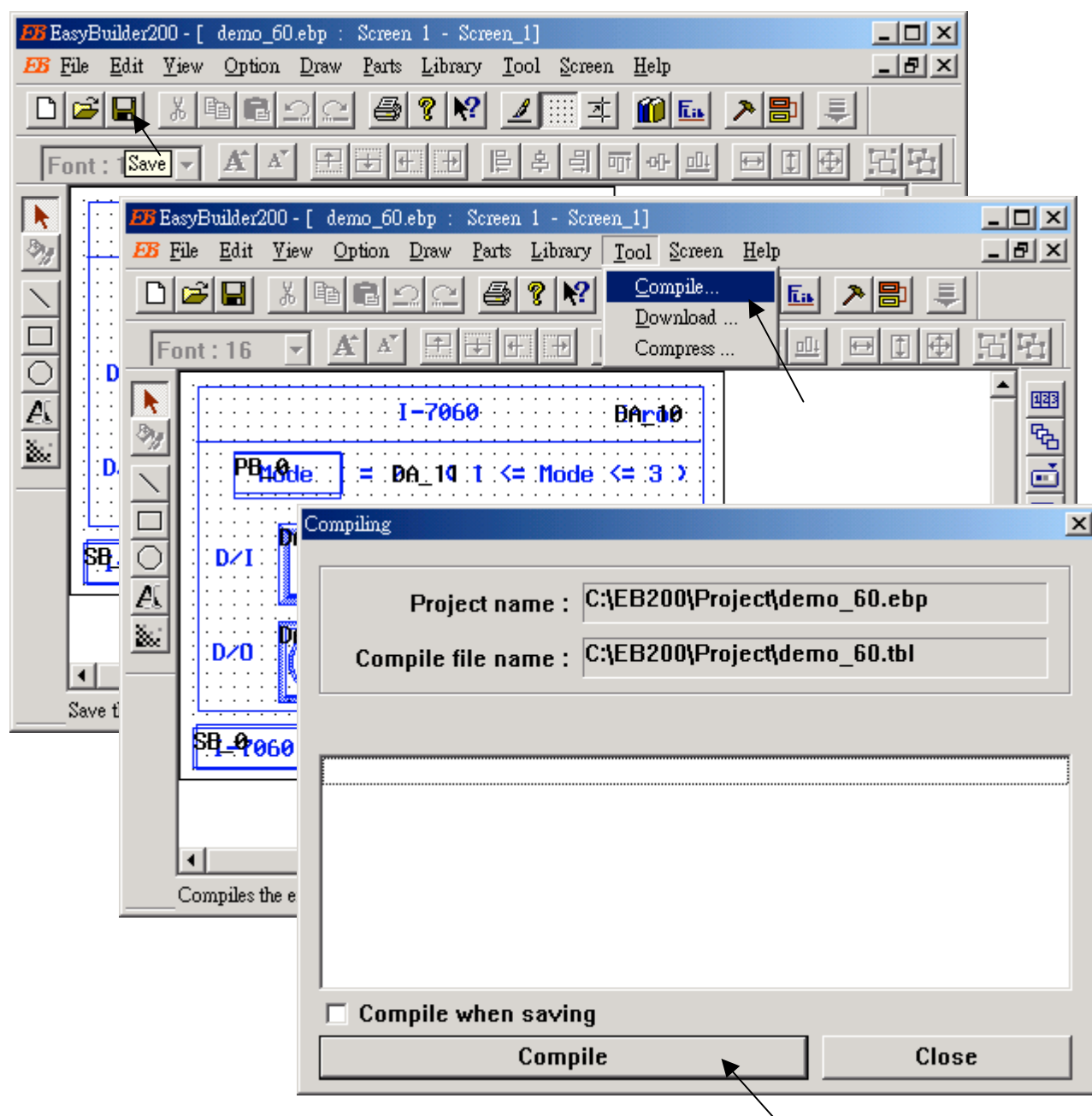
Add a text to it.



Save it.

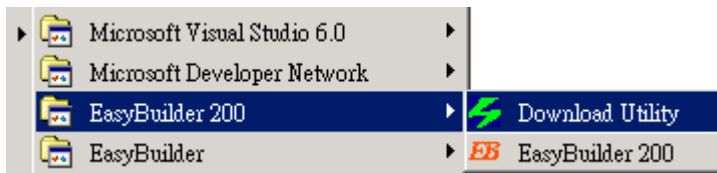


Step 6: Save & compile



Step 7: Download

Please connect PC to Touch200's RS232 port by a RS232 cable. (refer to wiring diagram on page 2)
Then set Dip switch on the back of Touch 200 to accept "download" (4:ON, others:OFF) & baud rate as 9600, then recycle its power
run "EasyBuilder 200" – "Download utility", set parameter as below, then click on OK.



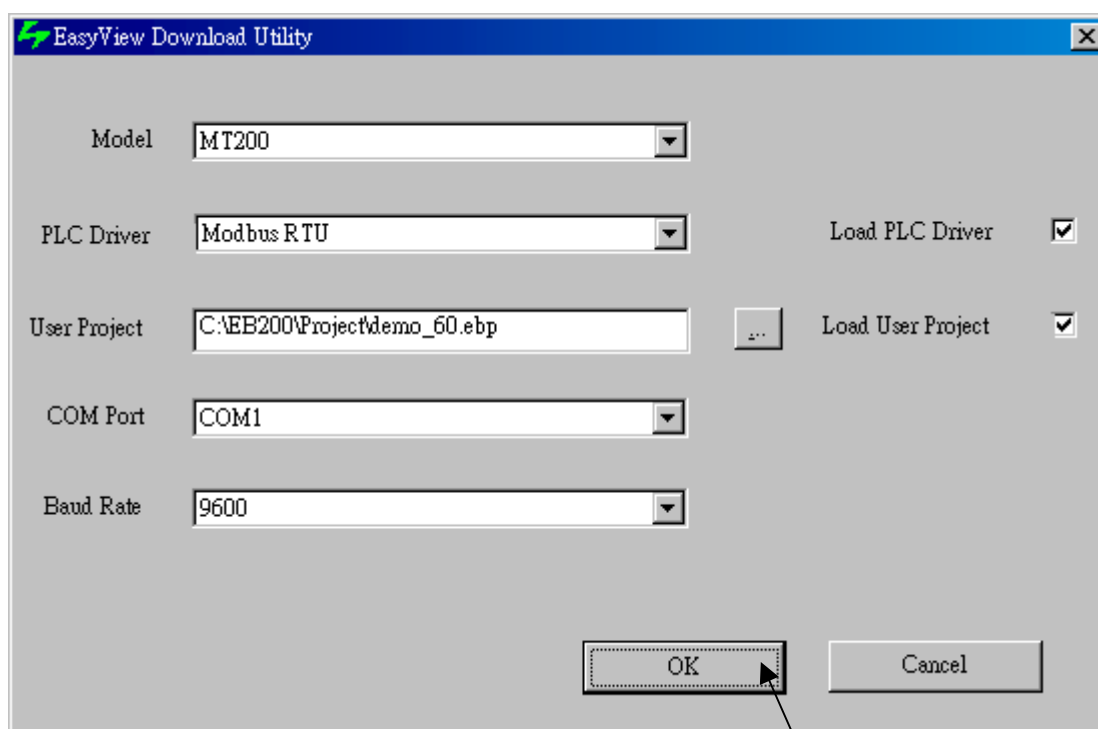
Model: MT200

PLC Driver: Modbus RTU

User Project: c:\EB200\Project\T200_1.ebp

COM Port: COM1

Baud Rate: 9600



Step 8: Run

Please connect Touch200's RS232 port to I-8xx7 by a RS232 cable. (refer to wiring diagram on page 2). Then set Dip switch on the back of Touch 200 to All:OFF (Run mode) , then recycle its power