Open Date Equipment Ltd.
Unit's 8 & 9 Puma Trade Park,
145 Morden Road,
Mitcham,
Surrey.
CR4 4DG

Tel: - 0044 (0) 20 8655 4999
Fax: - 0044 (0) 20 8655 4990

http://www.opendate.co.uk/

Ethernet & USB-B Board (Setting Instructions)
Thermocode Series 2

Ethernet is known as TCP/IP in this manual.

Foreword

It's assumed you have been trained using Codesoft, Recovermode or Termode.

The printer has been installed correctly, switched on and communication leads are connected.

For more information on the above refer to the Codesoft Overview Manual or Recovermode Manual.

Through out this document the Address, Gateway and Mask are examples only; the actual Address, Gateway and Mask would have to be obtained from the end user (Customer).

To implement the required system variable changes, these have to be changed using the Serial or the USB Port on the Printer. (Not Ethernet connection)

A suitable Firmware must be sent to the Printer using the Serial or the USB Ports on the Printer. *(Will not work with TCP/IP connection)*

Formats, Fonts, Graphics can be sent via any connection available. (Serial, USB or Ethernet)

Sending the wrong typed information to the printer will cause errors

Error number: - 26 Sys param unknown. (Possible missed typed system variable.)
                84 Sys param out of range. (Incorrect value sent to the printer.)

TCP/IP, Transmission Control Protocol / Internet Protocols

"Maximum Transmission rates 10 megabit per second"

You need to change the values of three new System Variables: -

> **SYSIPADD   = IP Address**
> **SYSIPGW   = Default gateway (not required)**
> **SYSIPMASK = Subnet mask**

The other new System Variables related to this board are: -

SYSIPMAC = MAC Address.   This identifier is dedicated to the Card installed on the Processor Board.
Each Card has its own unique identifier and cannot be changed.
If this returns 000000000000 (Zeros) check the connector.
(This is automatically assigned by the manufacturer)

SYSIPTEST = 0   Internal use only (Open Date) variable used to check the TCP_IP Card
When tested returns 1 = OK and defaults 0 after testing.

SYSISIP = 1   The Network part of the Card has been recognised by the Processor
Boards. If this returns 0 (Zero) check the connector.

SYSISUSBIN = 1   The USB part of the Card has been recognised by the Processor Boards. If
this returns 0 (Zero) check the connector.

Port Number

Communication Port Number required when using Codesoft, Recovermode and Termode.

Port Number = 9100   The port number, is the port address.
Port Number must be **9100,** for these Cards.
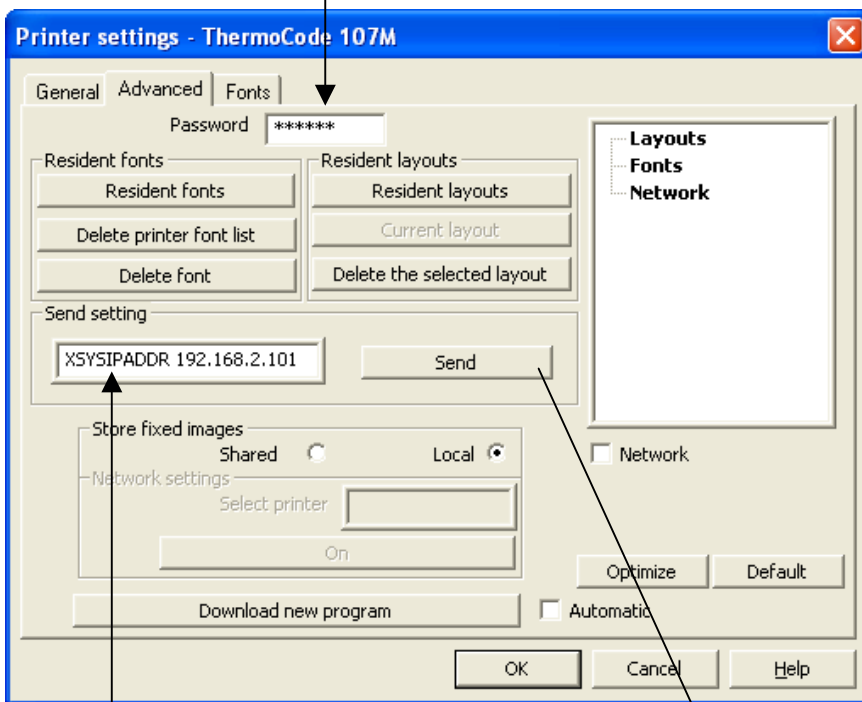
Changing System Variables using Codesoft

Codesoft Driver, Version: - V11.10.19 **or higher.**
(Available on the web site http://www.opendateinfo.com/)

To enter or change the System variables form Codesoft the proceeding **"XSYS"** is required.

XSYSIPADDR 192.168.2.101 *(example)*
XSYSIPGW 192.168.2.1 *(example but not required)*
XSYSIPMASK 255.255.255.0 *(example)*

Changing System Variable XSYSIPADDR
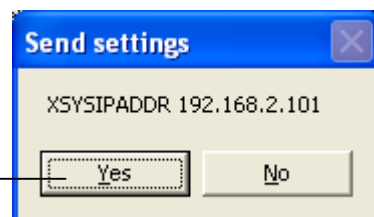
Enter the Password **650070** or **999999**

Enter the required Variable name and the address. (see below)

Variable name   Space   Numeric value.
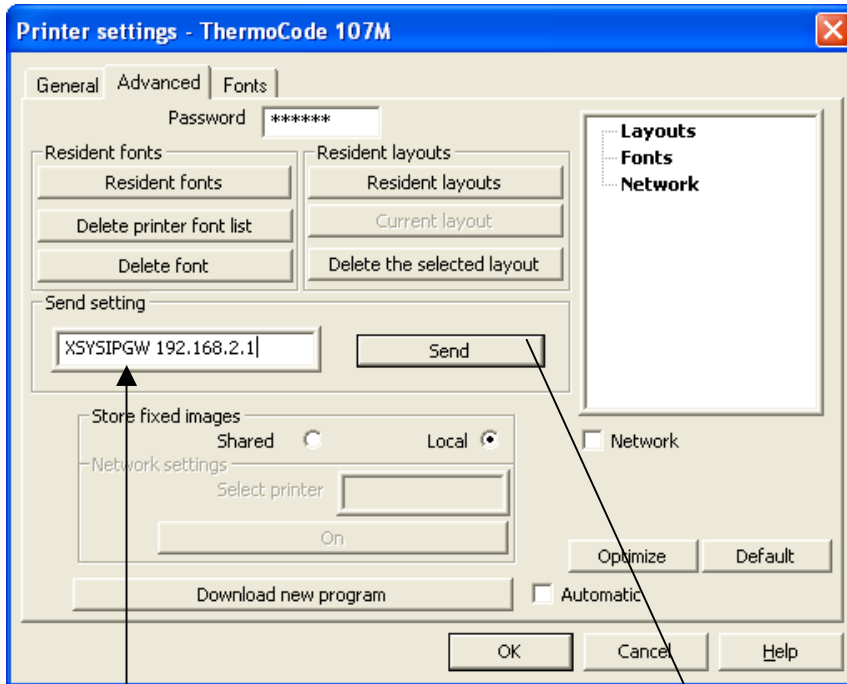
XSYSIPADDR   192.168.2.101

Once the variable has been entered, then click on "**Send**"

This dialog box appears Click on **"YES"**
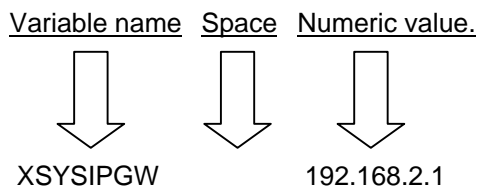
Changing System Variables using Codesoft (Continued)
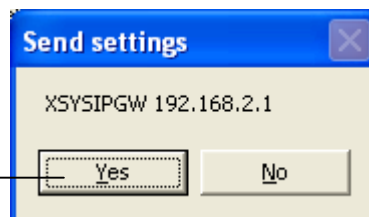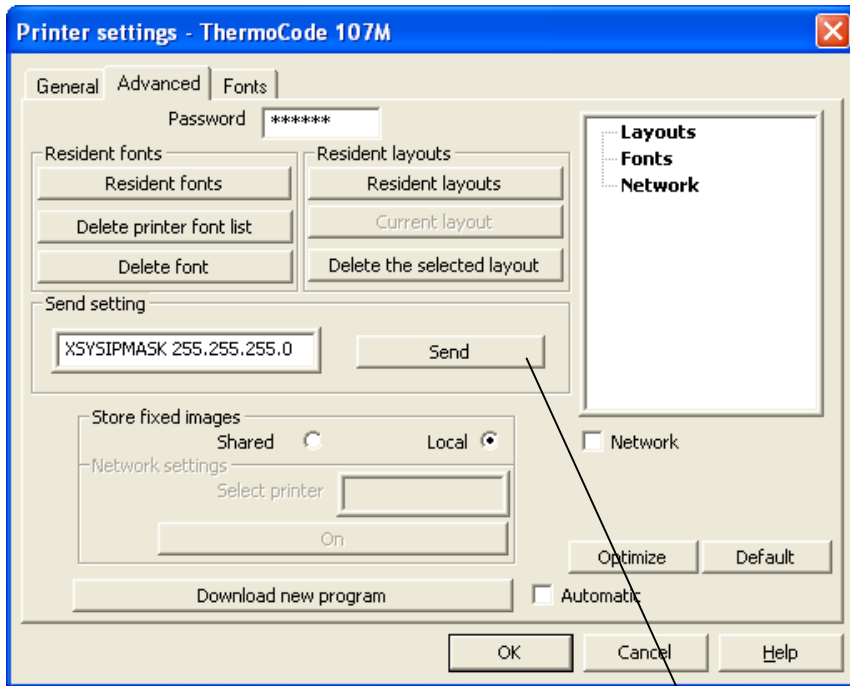
Changing System Variable XSYSIPGW

Printer settings - ThermoCode 107M

General | Advanced | Fonts |

Password ******

- Resident fonts
  - Resident fonts
  - Delete printer font list
  - Delete font

- Resident layouts
  - Resident layouts
  - Current layout
  - Delete the selected layout

Layouts
Fonts
Network

- Send setting

  XSYSIPGW 192.168.2.1   Send

- Store fixed images
  - Shared ○   Local ●

- Network settings
  - Select printer
  - On

☐ Network

Optimize   Default

Download new program   ☐ Automatic

OK   Cancel   Help

Enter the required Variable name and the address. (see below)

Variable name   Space   Numeric value.

⇩   ⇩   ⇩

XSYSIPGW   192.168.2.1

Once the variable has been entered, then click on "**Send**"

Send settings

XSYSIPGW 192.168.2.1

Yes   No

This dialog box appears Click on **"YES"**

Changing System Variables using Codesoft (Continued)
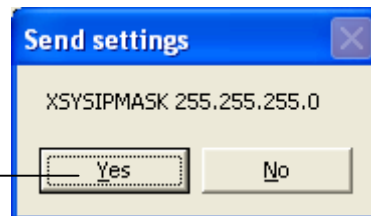
Changing System Variable XSYSIPMASK

Enter the required Variable name and the address. (see below)

Variable name   Space   Numeric value.

XSYSIPMASK   255.255.255.0

Once the variable has been entered, then click on "**Send**"
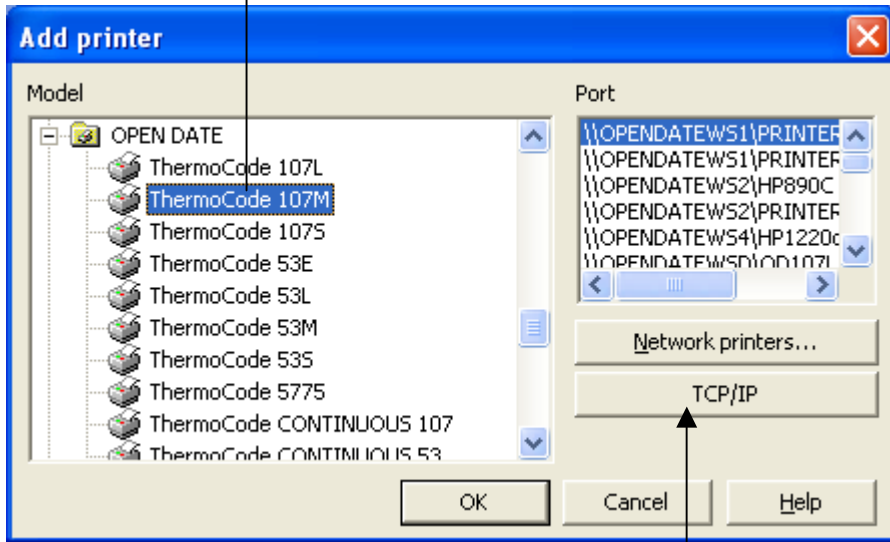
This dialog box appears Click on **"YES"**

Once all system variables are set for TCP/IP, turn off the printer and then re-start the printer. To ensure the settings are configured correctly, before attempting to connect to the Ethernet.

Please Note!   You cannot check the system variables from Codesoft.

Codesoft Communications TCP/IP

See the Codesoft Overview Manual for the full details on setting up Communication Ports.

Highlight the required Printer

Then Click on TCP/IP

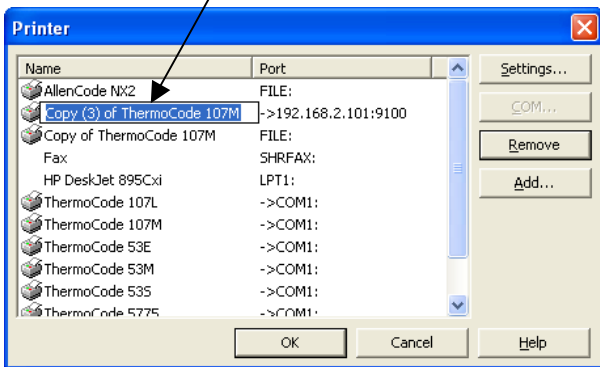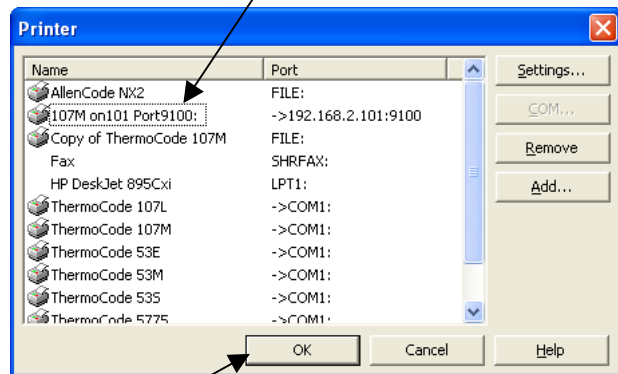This dialog box appears. (check port number) Enter the required IP Address
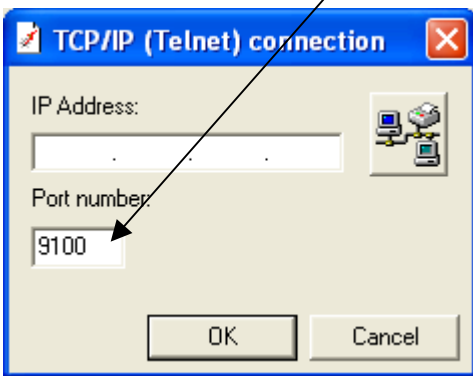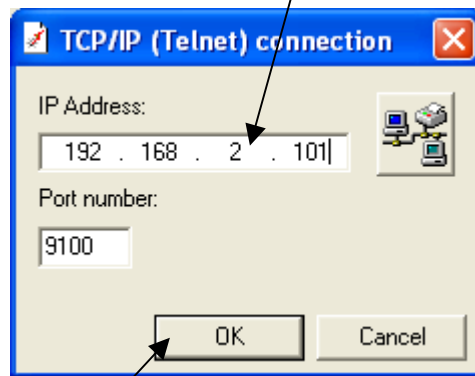
Then Click **"OK"**

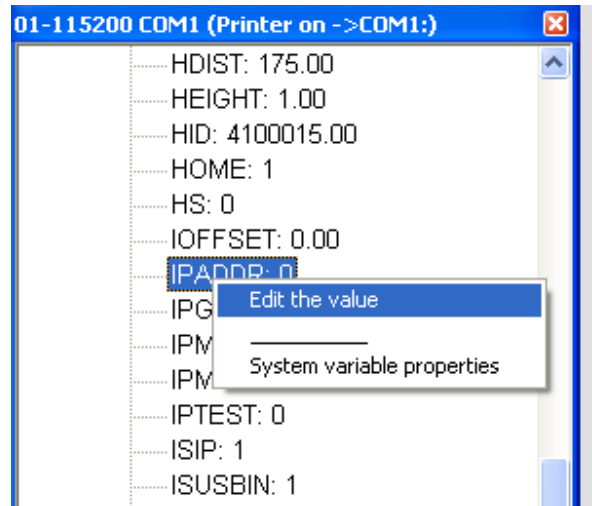The Printer name can be changed. Printer name shown changed. (example only)

Click on **"OK"** after completion.
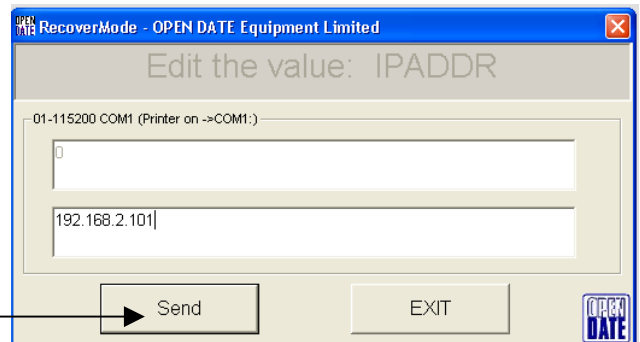
Changing System Variables using Recovermode

Recovermode System variable you need to change.

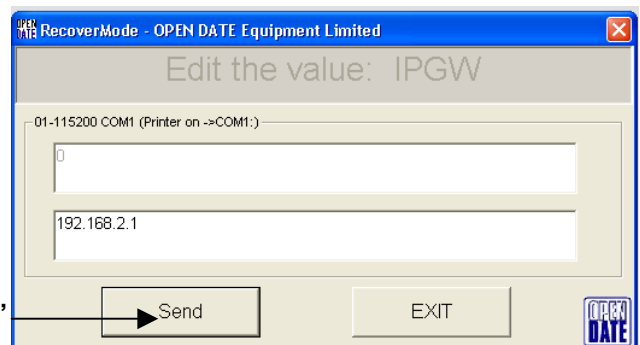**IPADDR 0**
IPGW 0 (not required)
IPMASK 0

Double Click on the required variable to be Edited.
Or highlight the variable. Right Click then click
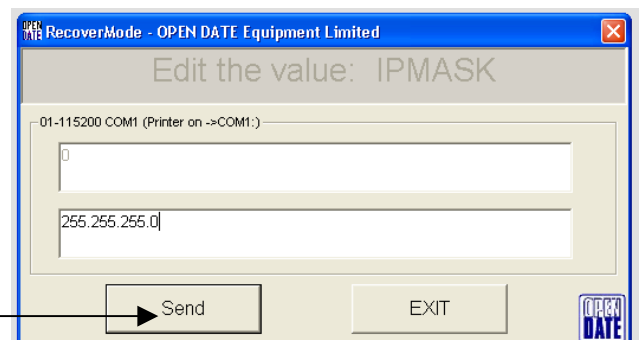On **"Edit the value"**

Enter the IP Address. Then Click on **"Send"**

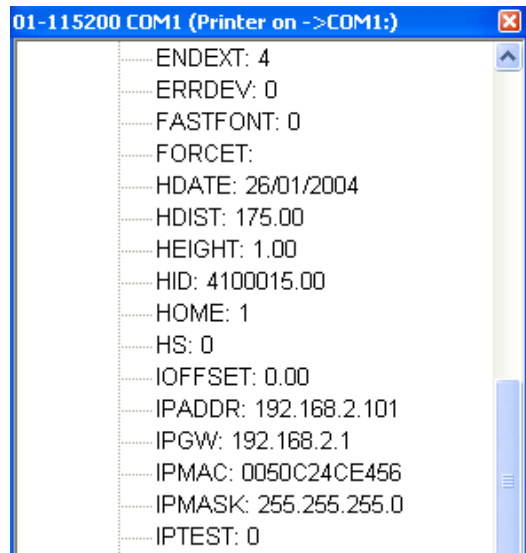Enter Default Gateway address. Then Click on **"Send"**
(Not required)

Enter Subnet Mask address. Then Click on **"Send"**

Once all system variables are set for TCP/IP, turn off the printer and then re-start the printer. To ensure the settings are configured correctly, before attempting to connect to the Ethernet.

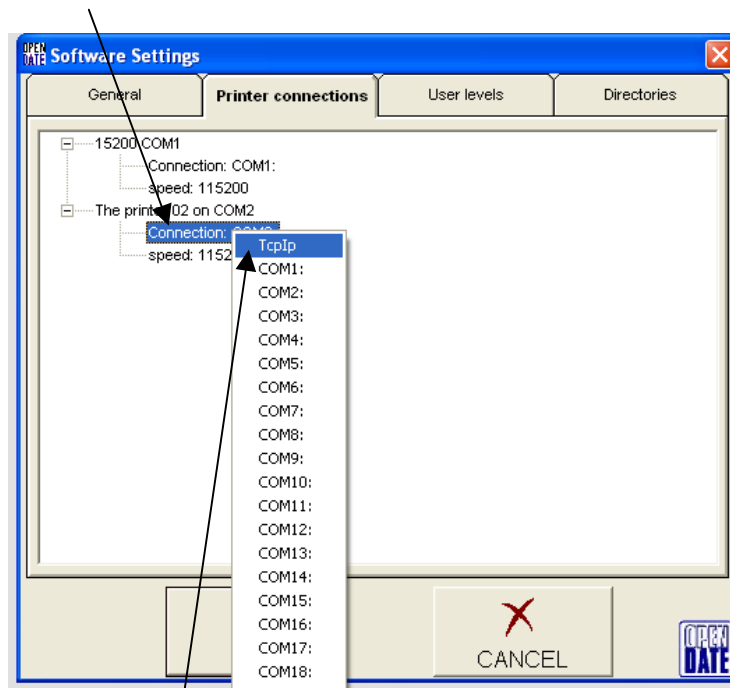## Changing System Variables using Recovermode (Continued)

Refresh the setting from the Printer to check the System Variable, are correct.

01-115200 COM1 (Printer on ->COM1:)

```
ENDEXT: 4
ERRDEV: 0
FASTFONT: 0
FORCET:
HDATE: 26/01/2004
HDIST: 175.00
HEIGHT: 1.00
HID: 4100015.00
HOME: 1
HS: 0
IOFFSET: 0.00
IPADDR: 192.168.2.101
IPGW: 192.168.2.1
IPMAC: 0050C24CE456
IPMASK: 255.255.255.0
IPTEST: 0
```

Recovermode Communications

See the Recovermode Manual for the full details for setting up Communication Ports.

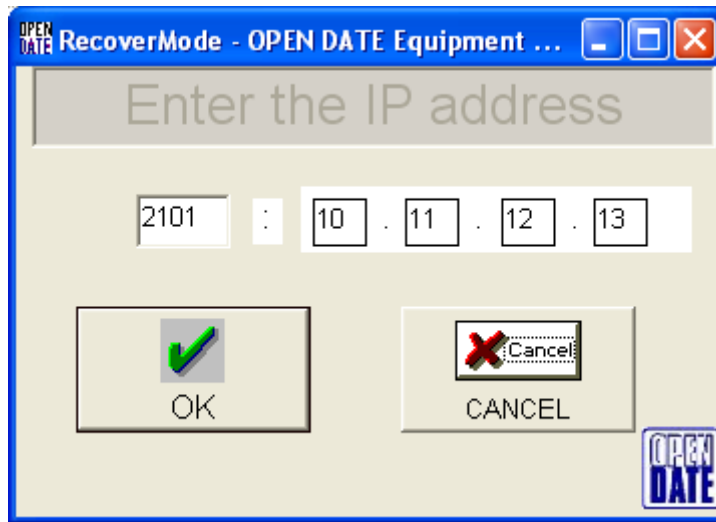Highlight Connection, then right Click the mouse

Software Settings

| General | Printer connections | User levels | Directories |

```
15200 COM1
    Connection: COM1:
    speed: 115200
The printer 02 on COM2
    Connection: COM2
    speed: 1152
```

TcpIp
COM1:
COM2:
COM3:
COM4:
COM5:
COM6:
COM7:
COM8:
COM9:
COM10:
COM11:
COM12:
COM13:
COM14:
COM15:
COM16:
COM17:
COM18:
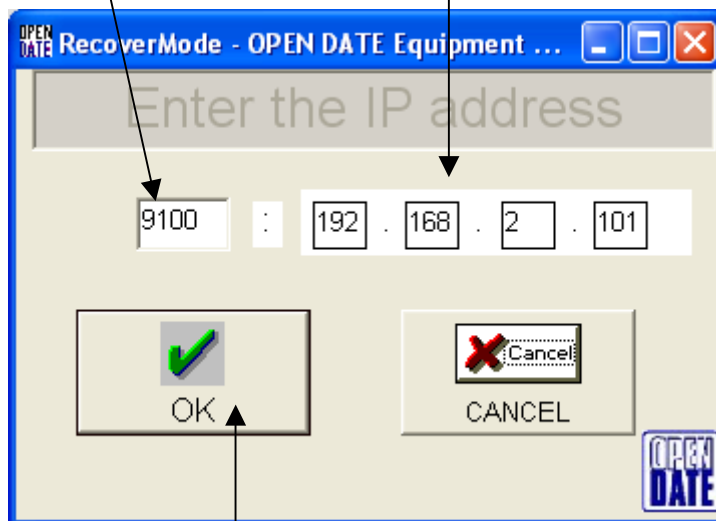
CANCEL

Click on TCP/IP

Recovermode Communications (Continued)
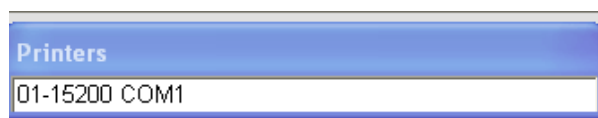
This dialog box appears

Change the Port Number to **9100**   Enter the required IP Address

Then Click on **"OK"**

One communication port shown (example)

Addition of the TCP/IP Port (example)
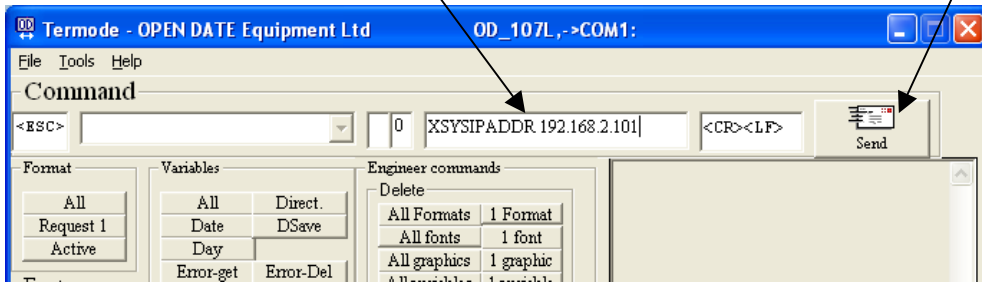
Changing System Variables using Termode

To enter the System variables using Termode the proceeding **"XSYS"** is required.

XSYSIPADDR 192.168.2.101
XSYSIPGW 192.168.2.1
XSYSIPMASK 255.255.255.0

Changing System Variable XSYSIPADDR

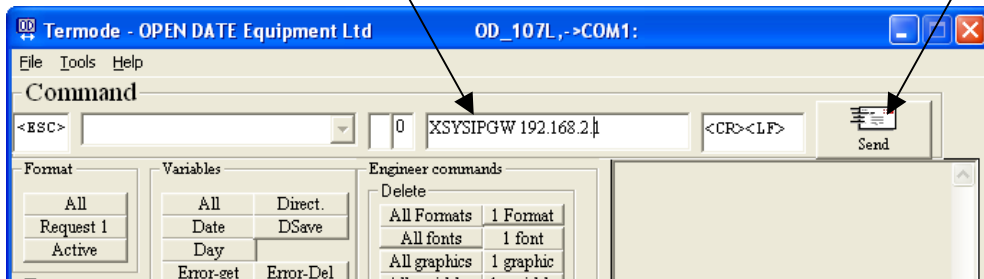Enter the Variable name then a space then the required number.   Then click on **"Send"**

Changing System Variable XSYSIPGW

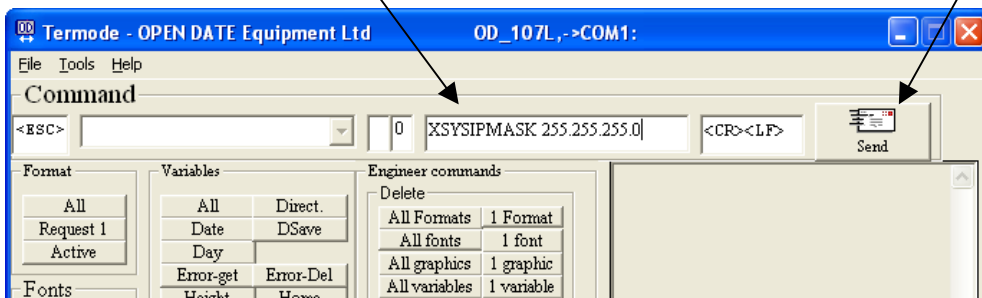Enter the Variable name then a space then the required number.   Then click on **"Send"**

Changing System Variable XSYSIPMASK

Enter the Variable name then a space then the required number.   Then click on **"Send"**
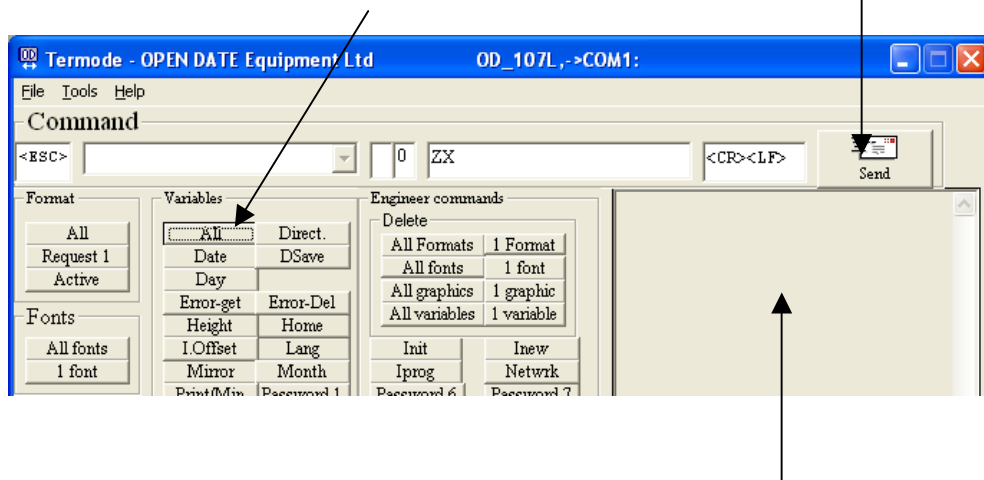

Once all system variables are set for TCP/IP, turn off the printer and then re-start the printer. To ensure the settings are configured correctly, before attempting to connect to the Ethernet.

Changing System Variables using Termode (Continued)
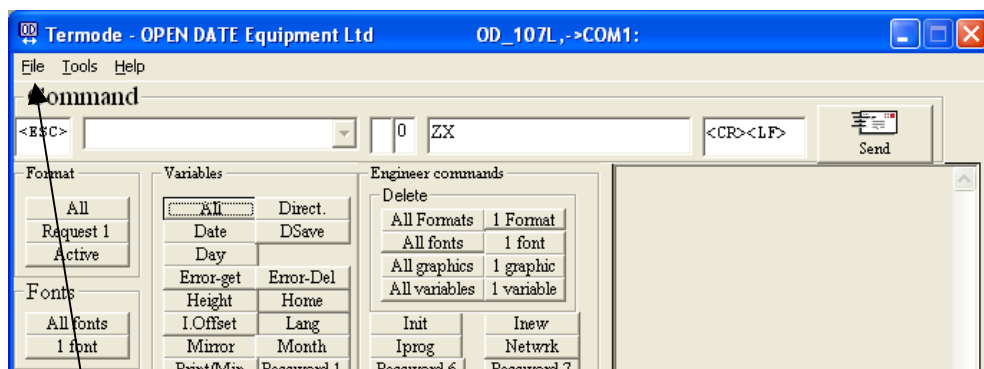
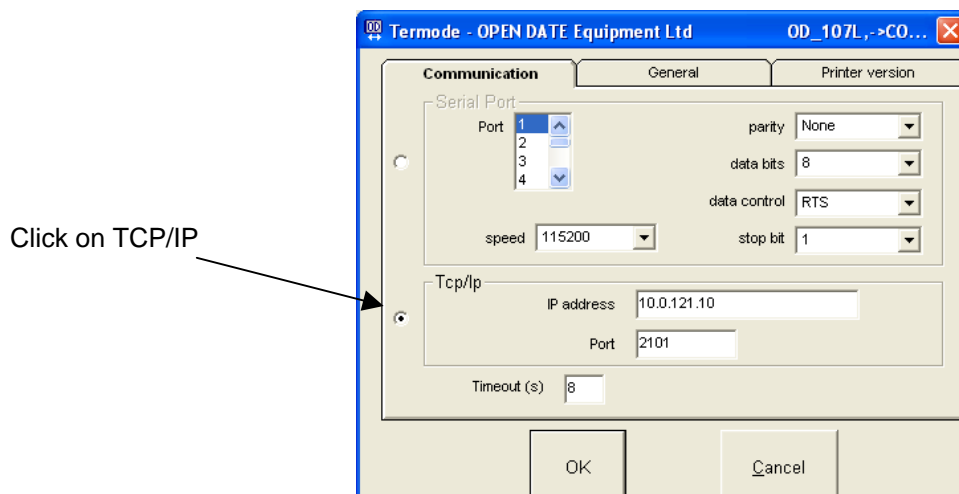To check the System Variables Click on **"ALL"**   Then Click on **Send**

Once the printer responds, you should see all variables. Please check the printer has accepted the new settings previously sent to the printer.
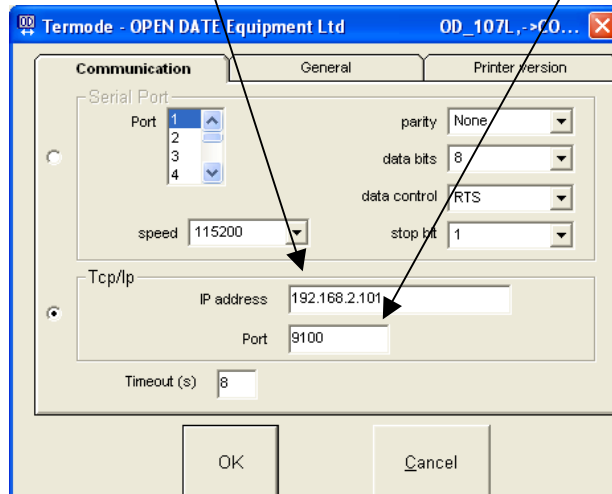
Termode Communications

Select **File**, then **Settings**.

Displayed will then be dialogue box, as shown below:-

Click on TCP/IP

Enter the required **IP Address** and Port number of **9100**

Click on **"OK"**

Communications are now set correctly.