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

Ethernet is known as TCP/IP in this manual.

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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	a = 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 <u>http://www.opendateinfo.com/</u>)

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

T

Printer s	Advanced Fonts Password ******
Send se	t Fonts Resident layouts Resident layouts Current layout Delete font Delete the selected layout CPADDR 192.168.2.101 Send
	ore fixed images Shared C Local Network twork settings Select printer On Optimize Default Download new program OK Cancel Help
er the requ	ired Variable name and the address. (see below)
	Variable name Space Numeric value.
	XSYSIPADDR 192.168.2.101

Enter the Password 650070 or 999999

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

	Send settings	\times
	XSYSIPADDR 192.168.2.101	
This dialog box appears Click on "YES"	<u>Yes</u> <u>No</u>	

Changing System Variables using Codesoft (Continued)

Print	er settings - ThermoCo	ode 107M	×
Gen	eral Advanced Fonts		
- Re:	Password **** sident fonts Resident fonts Delete printer font list Delete font nd setting	Resident layouts Resident layouts Current layout Delete the selected layout	
	Store fixed images Shared - Network settings Select prin Download ne	Send C Local (* ter On w program	Network Optimize Default Jomatic Ease Help
		K	
Enter the r	equired Variable na	me and the address. (se	ee below)
<u>Va</u> X:	SYSIPGW	 <u>Numeric value.</u> <u>192.168.2.1</u> 	

Changing System Variable XSYSIPGW

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



Changing System Variables using Codesoft (Continued)

Ge	eneral Advanced Fonts
R	Password ****** esident fonts Resident fonts Resident layouts Delete printer font list Delete font Delete font Delete the selected layout
S	ASYSIPMASK 255.255.0 Send
	Store fixed images Shared C Local Network Select printer On Optimize Default
	Download new program
	OK Cancel <u>H</u> elp
ariable na	equired Variable name and the address. (see below)
SYSIPMA	ASK 255.255.255.0
	Once the variable has been entered, then click on "Send
	Send settings

Changing System Variable XSYSIPMASK

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.

This dialog box appears Click on "YES"

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

Yes

<u>N</u>ο

Codesoft Communications TCP/IP

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

Highlight the required Printer

Add printer		
Model		Port
OPEN DATE OPEN DATE ThermoCo ThermoCo ThermoCo ThermoCo ThermoCo ThermoCo ThermoCo ThermoCo ThermoCo	de 107L de 107M ide 107S ide 53E ide 53L	\\OPENDATEWS1\PRINTEF \\OPENDATEWS1\PRINTEF \\OPENDATEWS2\HP890C \\OPENDATEWS2\PRINTEF \\OPENDATEWS4\HP1220c \\OPENDATEWS5\OD107I
ThermoCo ThermoCo ThermoCo	ide 53M	Network printers
ThermoCo		Cancel <u>H</u> elp

Then Click on TCP/IP

This dialog box appears. (check port number)

Z TCP/IP (Telnet) connection
IP Address:
Port number
OK Cancel

Enter the required IP Address
🛃 TCP/IP (Telnet) connection 🛛 🔀
IP Address:
192 . 168 . 2 . 101
Port number:
9100
OK Cancel

Then Click "OK"

The Printer name can be changed. /

Printer name shown changed. (example only)

Printer			
Name	Port	~	Settings
AllenCode NX2	FILE:		COM
Copy (3) of ThermoCode 107M	>192.168.2.101:9100		2014
Copy of ThermoCode 107M	FILE:		<u>R</u> emove
HB Dock lot 205 Cvi	SHRFAX:		
ThermoCode 107	->COM1:		<u>H</u> aa
ThermoCode 107M	->COM1:		
🏈 ThermoCode 53E	->COM1:		
💓 ThermoCode 53M	->COM1:	_	
🍑 ThermoCode 535	->COM1:		
📾 ThermoCode 5775	-SCOM1:		
	OK Cancel		Help

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**"

01-115200 COM1 (P	rinter on ->COM1:)	×			
HDIS	T: 175.00	^			
HEIG	HEIGHT: 1.00				
HID: 4	HID: 4100015.00				
HOM	E: 1				
HS: 0)				
IOFF	SET: 0.00				
IPAP					
IPG	Edit the value				
IPM					
IPM_	System variable properties				
IPTE:	ST: 0				
ISIP: 1					
ISUS	ISUSBIN: 1				

	🖁 RecoverMode - OPEN DATE Equipment Limited 🛛 🛛 👔	
	Edit the value: IPADDR	
	01-115200 COM1 (Printer on ->COM1:)	
d" ———	Send EXIT	1

	🚻 RecoverMode - OPEN DATE Equipment Limited	×
	Edit the value: IPGW	
	_01-115200 COM1 (Printer on ->COM1:)	
	0	
	192.168.2.1	
Enter Default Gateway address. Then Click on "Send"	Send	TERN Ate

itili KecoverMo	de - OPEN DATE Equipment Limited	
	Edit the value: IPMA	SK
C01-115200 CO	M1 (Printer on ->COM1:)	
0		
255.255.2	255.0	
	·	
	► Send EXIT	ົ
		Ň

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.

1-115200 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



Recovermode Communications (Continued)



Change the Port Number to 9100 Enter the required IP Address

Then Click on "OK"

One communication port shown (example)

Printers	
01-15200 COM1	

Addition of the TCP/IP Port (example)

Printers		
01-15200 CC)M1	
02-9100:192	.168.2.101	

This dialog box appears

Then click on "Send"

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 Varia	able name then	a space then t	he required nu	umber.	Then click of	on "Send"
		Ň	\backslash			
🚇 Те	rmode - OPEN DATE	iquipment Ltd	OD_107L,->0	COM1:		. 🖊 🖂
<u>File I</u>	ools <u>H</u> elp					
-Con <esc></esc>	nmand		XSYSIPADDR 192.16	58.2.101 CR	D <lf> Send</lf>	
- Forma Reg A	t Variables All All uest 1 stive Day Error-get	Direct. DSave Enor-Del	commands ormats 1 Format fonts 1 font aphics 1 graphic			

Changing System Variable XSYSIPGW

Enter the Variable name then a space then the required number.

🐺 Termode - (OPEN DATE I	iquipment L	.td OD_107L,->COM1:		
<u>File T</u> ools <u>H</u> elp	I				
-Command-					
<esc></esc>		-	0 XSYSIPGW 192.168.2.1	<cr><lf></lf></cr>	Send Send
Format	Variables —		Engineer commands		~
All	All	Direct.	All Formeta 1 Formet		
Request 1	Date	DSave	All fonts 1 font		
Active	Day		All graphics 1 graphic		
	Error-get	Error-Del	Allewichter 1 swithle		

Changing System Variable XSYSIPMASK

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

🚆 Termode - O	PEN DATE E	quipment L	d OD_107L,->COM1:	
<u>File T</u> ools <u>H</u> elp				
-Command-			\	
<esc></esc>		*	0 XSYSIPMASK 255.255.255.0 << r style="text-align: center;">CR> <lf></lf>	董章 Send
- Format	Variables —		Engineer commands	
A11 (A11	Direct	Delete	_
Request 1	Date	Diect. DSeve	All Formats 1 Format	
Activo	Date	DJave	All fonts 1 font	
Active	Emprovement	Emer Del	All graphics 1 graphic	
Fonts	Height	Home	All variables 1 variable	

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"

the System Variables Click on "ALL"	Then Click on Send
/	
Termode - OPEN DATE Equipment Ltd OD_107L,->COM1	I: 📃 🗖 🔀
Eile Iools Help	
-Command	
<bsc> Q ZX</bsc>	<cr><lf> Send</lf></cr>
All Variables Engineer commands All Direct. Delete Active Dav All formats 1 format Active Day Enor-Del All forms 1 formats Fonts Height Home All variables I variable All fonts 1 font IOffset Lang Init Inew I font Print@fin Paceword 1 Paceword 6 Paceword 7	

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

🛱 Termode - OPEN DATE E	iquipment Ltd OD_107L,->0	сом1:
Eile Iools Help		<cr><lf> 至言。 Send</lf></cr>
Format All Active Fonts All fonts 1 fpnt Variables All Date Day Error-get Height I.Offree Mirror Printf/Mirror	Engineer commands Direct. Delete DSave All Formats Error-Del All graphics Home All variables Lang Init Month Iprog Pescurord Pescurord	

Select File, then Settings.

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

ġ	Terr	mode - OPEN DATE E	quipn	nent Ltd	OD_1	07L,->CO 🔀
1		Communication		General	Pt	inter version
	с	Port		pa data l data con	rity None oits 8 trol RTS	
	¢	Tcp/lp	dress Port	10.0.121.10 2101	bit 1	
		Timeout (s) 8				
		O	к	<u>c</u>	ancel	

🛱 Termode - OPEN	DATE Equipment L	.td OD_1071	L,->ſ.0 🔀				
Communicatio	n Ger	neral Printe	rversion				
Serial Port- Port 1 3 4		parity None data bits 8 data control RTS	•				
Tcp/lp	115200 IP address 192.1 Port 9100	stop bt 1					
Timeout (s) 8							
	ок	<u>C</u> ancel					

Enter the required IP Address and Port number of 9100



Communications are now set correctly.