

USER'S MANUAL

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1 INTRODUCTION

The TP_ESMS_8 Board is completely programmable from the menus of application software (TP_ESMS_8.exe, as provided by TOPOINT CORP). This makes it easy to set up program and utilize the features of the board device. The pages can be accessed by executable application software and then a click of the SEARCH button to access the device (see the Network Configuration section in Chapter 2.2). The menu tags as appeared at the top of screen will help you locate specific programming parameters and features. The Summary screen is your main page to view the current status of all monitored 8 digital inputs (D/I) status.

Upgrade SetIp SetWo	eb SetEmail '	Version		
TOPOI	TP_E NT CORP. 1	SMS_8 VER.1.1	; 2012-2015	
1 <mark>0 TP_ESMS_8 (Settp)</mark> Upgrade SetIp SetWeb S NAME) - O record etEmail Version	Ib	VERSION	
]				
MAC : IP : MASK : GATEWAY : DNS : HTTP PORT :		DP PORT : 0	☐ Modify ☐ DHCP Enable	

The TP-ESMS-8 application software provides access to several menus dealing with the configuration. They are divided into the following menu tags: **Upgrade, SetIP, SetWeb, SetEmail** (inclusive of setting SMS). The description of each tag and associated configurable parameters are described below.

2 SET IP

The SetIP settings are used to describe and configure general properties of the network. The information as entered into the unit fields of **NAME**, **MAC**, **IP**, **MASK**, **GATEWAY**, **DNS**, **HTTP PORT**, **UDP PORT**, **NAME** will appear in the front of SetIP page. Use these to help identify the unit and location so that when any one of D/I is triggered and you'll know exactly where the trigger occurs.

2.1 Automatic Network Configuration using DHCP:

For an easier set-up, the interface provides the selection of **DHCP enable**. If your network supports DHCP, i.e. in the conjunctional use with a Network Router, then simply plug the Ethernet jack into the TP_ESMS_8 unit and turn the unit on. Allow the unit to finish booting-up (a few seconds). By factory default, the selection of **DHCP enable** has always been checked. Only when DHCP enable has been checked is able to display these related parameters automatically. Leaving DHCP unchecked will lead user to modify those parameters manually. As long as user's network supports DHCP, user is strongly advised to click DHCP enable so that a detected TP_ESMS_8 will be displayed showing its IP address and MAC address (TP_ESMS_8 hardware serial number) accordingly. A double-click on the TP_ESMS_8 in the top list and then your browser will open to the status viewing page of monitored 8 D/I.

2.2 Network Configuration using a Static IP Address:

If your network does not support DHCP then your unit will set its IP address to 192.168.1.250 by factory default. This address should be temporarily set. However, leaving this address as the factory default could result in net-working conflicts if another TP_ESMS_8 unit is added to your network.

It's highly recommended that you consult network configurations and settings changes with your Network Administrator if you check <u>Modify</u> and abandon the use of <u>DHCP Enable</u>. To this end, user would like to switch over to the proper settings manually, for example, for the input of a permanent fixed IP address instead.

2.3 Set IP step-by-step

Step1:

Just execute TP_ESMS_8.exe application software and it enters the front page as the following photo shows, then followed by a click <u>SetIP</u> tag on the top row in order to go into the main network configuration page. See the following picture. If your network supports DHCP then simply plug the network jack into the TP_ESMS_8 RJ45 Ethernet port and turn it on. Allow the unit to finish booting up (for a few seconds until the RUN led indicator starts to flash steadily, which is similar to heartbeat pulse. Only at this moment on, user concludes that the TP_ESMS_8 unit has started to function.







1et net
net net



Step3: Upon the unit; for example, AR_145, has been displayed in the top row, user may proceed with a **single** click right on AR_145 (see the photo below for the blue bar), and related parameters that have been generated from board unit is to be displayed (see the photo below for the fields of MAC, IP, MASK, GATEWAY, DNS, HTTP PORT, UDP PORT, etc).

AR 145		IP 192.168.0.101	TP F	VERSION SMS8V1.6130305S	N1
Step 3: a si	ngle click o	n AR_145 ma	y disclo	ose related para	meter
as s	shown below	w, see MAC, I	P, MAS	SK, GATEWAY,	etc.
MAC :		ICA ISC ISF	3D	Modify	
IP :	192 .	168 . 0 .	101	DHCP Enable	
MASK :	255 .	255 . 255 .	0		
GATEWAY :	192 .	168 . 0 .	1		
DNS :	192 .	168 . 0 .	1		
HTTP PORT :	80	UDP PORT:	4660		
NAME :	AR_145				
UPDATE :	2013-03-0	5 15:55:53			
🔽 Upgrade En	able				
	Searc	ы	Write	1	
		<u> </u>			



2.3.1 Network Parameter Descriptions

DHCP

Enabling this option means that the TP_ESMS_8 unit will automatically obtain an IP address on the network using Dynamic Host Configuration Protocol (DHCP). Disabling this option means that you will have to configure the network parameters manually.

MAC

This is the Media Access Control address which, in general terms, is the hardware address for the TP_ESMS_8 unit port. There is a unique address for all network devices.

IP

This is the entry field for manually configuring the IP address of TP_ESMS_8 unit on your network. This address is provided by you or your network administrator. It is formatted as a standard dotted decimal number.

MASK

This is the subnet mask which distinguishes the portion of the IP address that is the network ID from the portion that is the station ID.

GATEWAY

A TCP/IP network must have a gateway to communicate beyond the LAN identified by the network ID. A gateway is a computer or router that is connected to two different networks and can move TCP/IP data from one to the other. If your TCP/IP network has more than one LAN or if you are connecting to the Internet, you will need to know the IP address of the gateway that will transfer TCP/IP data in and out of your LAN. A single LAN that is not connected to other LANs does not require a gateway setting.

DNS

It stands for Domain Name System and the DNS translates Internet domain and host names to IP addresses. DNS automatically converts the names we type in our Web browser address bar to the IP addresses of Web servers hosting those sites.

Note: if user is in conjunctional use with a network router under a permanent IP, he is reminded to check if the DNS fields as displayed both in the board unit and in the router should be input properly.

HTTP PORT

Allows section of the port number that the web server will use to host the web page. Default is 80. If changed from the default you must include the port number in your browser address (example: 192.168.1.250:85)



4 SET WEB

User may edit the notification contents of web which will be viewed on the web-enabled browser in case any one of 8 D/l is trigger (in other words, event occurs)

IP :	192 . 168 . 0	. 101 Po	rt : 4660	Open Save
DI				
	Mode	Туре	Tag	Message
DI 1	ALARM	NO 🔽 DI	1	DI_ALARM 1
DI 2	DISABLE	NO 🔻 DI	_ 2	DI_ALARM 2
DI 3	ALARM	NO 🔻 DI	3	DI_ALARM 3
DI 4	ALARM	NO 🕶 DI	_ 4	DI_ALARM 4
DI 5	ALARM	NO - DI	_ 5	DI_ALARM 5
DI 6	ALARM	NO - DI	6	DI_ALARM 6
DI 7	ALARM	NO - DI	_7	DI_ALARM 7
DI 8	ALARM	NO 🕶 DI	8	DI_ALARM 8

4.1 Mode

There are 3 modes available which are **ALARM**, **DISABLE** and **INDICATING** for notification options. In **ALARM** mode, TP_ESMS Board sends Email/ SMS notification as soon as event occurs. In **INDICATING** mode, the hardware board just displays its status on the web view instead of sending Email/SMS notification. In **DISABLE** mode, the hardware board simply ignores D/I status regardless of what happens.

4.2 Type

There are 2 types available, which are NC (Normally Closed) and NO (Normally Open). For example, if the D/I 1 has been preset to NC type, and once D/I 1 input is made to NO (D/I 1 input is connected to ground or lower-level voltage), the hardware board just regards that D/I 1 input as abnormal, thus, generates an event correspondingly. In other words, D/I is triggered. Likewise, if the D/I has been set to NO type, and as soon as D/I input is made to NC (D/I 1 input is connected to a higher-level voltage), the hardware board receives that abnormal signal (from D/I 1) and responds accordingly.

4.3 Tag

The configurable contents of these entry fields will be displayed on the web view, showing the real-time 8 D/I statuses. Maximum input of characters is 20

4.4 Message

The configurable contents of these entry fields will be displayed on user's email content and/or on his cellphone short message as long as there is an incoming notification. Maximum input of character is 40



5 EVENT NOTIFICATION

TP_ESMS_8 Board provides two (2) mechanisms of event notification---Email, SMS (also known as short message). Other than that, the real-time view of monitored D/I status can be viewed via a web-enabled browser.

5.1 Email Notification

5.1.1 Find a SMTP Server

User is required to find at least a suitable SMTP server(s) from a reliable email service provider(s) before setting up following parameters. A SMTP service provider is able to send user's every outgoing email.

Taking a renowned email service provider gmx.com for example,

its mail SMTP server address: smtp.gmx.com

• GMX Mail SMTP user name: Your full GMX Mail email address ("example@gmx.com", for instance)

GMX Mail SMTP password: Your GMX Mail password

GMX Mail SMTP TCP port: 25

GMX Mail SMTP TLS/SSL required: no

Note: If using GMX as a SMTP provider, user is noted of the consistency in the entry fields of <u>E-Mail from</u> and <u>Account Name</u>. In short, fill in your full GMX Mail email address both in the <u>E-mail from</u> and <u>Account Name</u>. The discrepancy in these 2 fields may result in sending error of outgoing emails.

User can be referred to other suggested SMTP service providers, signing up for their SMTP membership in order to get a set of approved Username and Password

In case user has an Ethernet network in the locality. Mostly, that Internet Service Provider (ISP) provides SMTP service for free.

SMTP Service Provider	SMTP Mail Server	TCP Port
	turbo-smtp.com	25
SMTP2GO	smtpcorp.com	25
SendGrid	smtp.sendgrid.net	25



5.1.2 Go to Email tag

Step1: As soon as the unit AR_145 has been detected (see 2.3 SetIP step-by-step) successfully, user may proceed to Email setting by clicking the SetEmail tag

Note: Check the IP address and Port fields as shown at the upmost 2 rows (in this case below, it is IP:192.168.0.1/ Port:4660) should be as same as the ones as displayed in the SepIP tag.

Step2: Press Read button to retrieve existing setting. Note: the entry fields of Email From/ SMTP Server/ SMTP Port/ Authentication/ Account Name/ Password are all in the blank in the first time use.

Unormala Satin Satil	Selfimail Jamion	
opgraue Seup Serv	Sten1: press	SetEmail' tag
un 192	168 0 101	
IP. 13		
Port : 4660		Save
Basic F-Ma	il SMS-1 SMS-2 SMS-3	
L ind		
E-Mail Fron	1:	
SMTP Serv	er:	
SMTP Port	0	
	1-	
🗆 Authenti	cation	
Account Na	me:	
Password :		
	1	
	Stop2: prop	Dead to retrieve
-	Step2. pres	It setting
	Read	/rite



5.1.3 Set Basic Email (taking GMX for example)

After user has successfully applied for GMX mail, for example, to have a full GMX Mail email address, password, he is able to set parameters of email notification

Note: The example below is only based on GMX mail. Other email/SMTP service providers are likely to have different rules. Please always consult with your email/SMTP provider.

Step1: This tag makes user to set outgoing emails. Go to Basic tag by a click on it.

Upgrade SetIp SetWeb	SetEmail Version	
IP: 192 .	168 . 0 . 101	Open
Port : 4660	-	Save
Basic E-Mail S	SMS-1 SMS-2 SMS-3	Step2
E-Mail From :	topoint@gmx.com	
SMTP Server :	smtp.gmx.com	
SMTP Port :	25	
🔽 Authenticatio	8	
Account Name	topoint@gm×.com	
Password :	Superior6729548	
		Step3
[Pead Write	

Step2: Fill in the fields of E-Mail From, SMTP Server, SMTP Port

Step3: Fill in the fields of Account Name, Password, followed by a check on Authentication.

Note: GMX Mail requires that <u>E-Mail From</u> and <u>Account Name</u> should be as same as each other. In this case, as the photo shown above, for example, it is <u>topoint@gmx.com</u>

For GMX user, his outgoing emails cannot be sent if the fields of E-Mail From and Account Name is not consistent

Step4: As soon as Step2 & 3 are done, press Write button to write in parameters.

Step5: User is advised to press Read button in the end to confirm if the parameters have been displayed properly.



5.1.4 Add Email recipients of Email notification
TP_ESMS_8 Board can be added with five (5) Email recipients at most to be noted of the
incidents in case D/I is activated.
19 TP-WEB-19 (SetEmail) Read OK Upgrede SetIp SetEmail Version IP: 192. 168. 0. 101 Open Port: 4660 Save Basic E-Mail SMS-2 SMS-3 IP: E-Mail Step4 E-Mail To: topoint@gmx.com Step2 E-Mail To: topoint@Be@163.com Step3 E-Mail To: topoint88@163.com Step3 E-Mail To: topoint88@gmail.com Step5
Step1: Choose E-Mail tag and followed by a click of Read button to read existing parameters
By factory default, all blanks (inclusive of E-Mail Subject/ E-Mail to) as displayed should be
blank. User is advised to take a look if the upmost IP & port is correctly displayed.
Step2: Fill in the blank (of E-Mail Subject) with a proper subject title; for example, new-101.
Step3: Fill in the blank (of E-Mail to) with email recipients, 5 (five) recipients at most.
Step4: Be reminded to check 'Enable'.
Step5: After one (or more than one) email recipient has been assigned, press Write button at

the bottom to write in parameters. This write-in procedure takes a few seconds.

Note:



After a 'Write' button is done, user may press 'Read' button again to check if email recipients as displayed are in line with what have been set accordingly.





5.2 SMS Notification

5.2.1 Find a SMS provider

User will have to find a local SMS provider and sign up for membership to have a set of approved username, password, API code and some amount of credits that activates SMS delivery

Before setting up SMS-1 tag, we suggest user sign up membership at <u>www.clickatell.com</u>, who is a professional SMS sending service provider.





Have the following information ready after a successful sign-up at clickatell.com

Username: xxxxx

Password: xxxxx

API code: xxxxx (usually, 7-digit code for the Clickatell user)

Phone: xxxxxxxx (cell phone numbers you would like to send the message to in International format e.g. 448311234567)

Step1:

Choose SMS-1 tag

Note: TOPOINT Corporation provides two (2) mostly used formats (SMS-1/ SMS-2) that user may choose from. SMS service providers may differ slightly in their SMS-sending format. User is advised to consult with SMS service provider before he is working on the key-in

Step2:

Click Read button to read existing parameters. By factory default, all blanks (exclusive of IP & Port) as displayed should be blank in the first use. However, user is advised to take a look if the upmost IP & port is properly displayed.

Step3:

Fill in the blank (of SMS to) with a SMS service provider's email address. For the Clickatell user, it is <u>sms@messaging.clickatell.com</u>. If wanting to further modify that blank, just check 'Modify'.

Note:

1. Each SMS service provider has its own 'email to SMS' email address. User is advised to consult with his preferred SMS service provider for such information.

2. User is also advised to type in keywords of 'email to SMS' via his Google search. There're a lot of SMS service providers around who are able to offer the similar SMS sending service.

Step4:

Key in the blank (of Username/ Password/ API) with proper parameters. When you are at it, make sure that you've signed up for such information ready.

Username: xxxxx

Password: xxxxx

API code: xxxxx (usually, 7-digit code for the Clickatell user)

Step5:

Key in the blank (of Phone) with at least a cell phone number (5 cell phone numbers at max) you would like to send the message to in international format e.g. 448311234567

Step6: Don't forget to check both 'Enable' and 'Unicode'.

Step7: After one (or more than one) SMS recipient has been assigned, press Write button at the bottom to write in parameters.



5.2.3 SMS-2 notification format

Topoint Corporation offers another SMS-2 format to send short message. Before setting up SMS-2, we suggest that user goes with sign-ups in either one of the following SMS service providers.

SMS Provider	Website	Email Address Format
smsglobal	www.smsglobal.com	country code+cellphone@email.smsglobal.com for instance, for a Taiwan recipient, it is 886981091155@email.smsglobal.com
Text Magic	www.textmagic.com	country code+cellphone@textmagic.com for instance, for a Taiwan recipient, it is 886981091155@textmagic.com

Note

1. For smsglobal and TextMagic users, the Email address format should be in line with the following rules; for example,

a Taiwan cellphone no. is 0981091155, then put Taiwan country code of 886 in the front and omit 0. So the required email address format should be:

886981091155@email.smsglobal.com

886981091155@textmagic.com

2.

User may find out that both smsglobal and TextMagic provide a web interface where user may configure his preferences. Both said above two companies support the storage of pre-defined Email addresses/ Wild Domains so that Email-to-SMS requests as sent from the pre-defined Email addresses/ Wild domains can be accepted and delivered.

With this reason, our <u>SMS-2</u> doesn't request the input of username/password. However, user is advised, prior to the use of SMS-2, to confirm again that your Email address (as stated under the tags of <u>Basic</u> \rightarrow <u>E-mail From</u> should be included in the list of pre-defined Email addresses/ Wild Domains as set in smsglobal.com or textmagic.com)



5.2.4 SMS-2 step-by-step
10/17 E.ESMS_0 (SetEmnil.) Rend OK Upgade SetUp 1P: 192. 19: 192. 19: 192. 10: Open Port : 4660 Step2 Basic E-Mail SMS-1 SMS-2 SMS To: 19869301031155@email.smsglobal.com Step3 Step3 Step3 Step6
Step1: Go to SetEmail tag. Prior to this procedure, make sure that you have done SetIP
section. See
Step2: Choose SMS-2 tag
Step3: Press Read button to read existing parameters. By factory default, all blanks (exclusive
of IP & Port) as displayed should be blank in the first use. However, user is advised to take a
look if the upmost IP & port is properly displayed.
Step4: Check both Enable and E-Mail Subject so that SMS-2 delivery starts to function
Step5: Fill in recipients' (5 recipients at most) cellphone numbers. The format must conform to
smsglobal rule. See **.2.3
Step6: Press Write to write in all parameters. User is advised to press Read button again in the
end to confirm that all parameters are set accordingly.



5.3 Web Display

Aside from email/ SMS notification, Web Display supports real-time view of monitored 8 D/I status no matter whether the D/I is triggered.

In addition, user may view the real-time ASCII data that are received from UART interface. As the said data can be updated once a second, user is able to view the most updated physical values thru a web-enabled browser. See picture below

5.3.1 View of real-time monitored 8 D/I status on the web page

See the picture below, as soon as the NEW-101_TEST unit is displayed, user may proceed to the web-page view of the real-time monitored 8 D/I status with a double-click on the highlighted blue bar.

NAME NEW-101_TEST		IP 192.168.0.10	1 TP_	VERSION WEB_8 V.1.0.0.2 1211
Double-click o	n this blu	ue bar may red	irect to	o the web page view
MAC :	00 11	CA 3C 3F	3D	🗆 Modify
IP :	192 .	. 168 . 0 .	101	☑ DHCP enable
MASK :	255 .	. 255 . 255 .	0	
GATEWAY :	192 .	. 168 . 0 .	1	
HTTP PORT :	80	UDP PORT:	4660	
NAME :	NEW-10	1_TEST		
UPDATE :	2012-12-	12 14:57:43		
🗆 Upgrade Enat	ole			
	Sear	rch	Wri	te



5.3.2 View of real-time monitored 8 D/I status on the web page

See picture below for the screen view of real-time monitored 8 D/I status the web page.

Therefore, user may view this summary thru his web-enable browser.

As it is displayed as such:

N: NORMAL (colored in blue)

A: ALARM (colored in red)

NC: NORMALLY CLOSED

NO: NORMALLY OPEN

DATA: the display of incoming RS232 data streams (if has)

7.N -NO : DI_15:19 8.N -NO : DI_14:27

ALARM_SUMMARY_C: automatically refresh this view display on the intervals of every second.

ALARM_SUMMARY DATA topoint A:ALARM NC: NORMALLY CLOSED N:NORMAL NO: NORMALLY OPEN ALARM_SUMMARY_C 1.N -NO : FIRE 2.N -NO : GAS 3.N -NO : DOOR OPEN 4.N -NO : THIEF 5.N -NO : DI_11:46 6.N -NO : DI_15:31

Note:

1. The display contents; i.e, FIRE, GAS, DOOR OPEN, THIEF, of screen view can be pre-edited. See **.** page for web view edition.



5.3.3 When a D/I is triggered

Whenever any one of 8 D/I is triggered, the web page displays abnormalities (colored in red) accordingly.

A:A	LARM	1	NC:	NORMA	LLY C	CLOSE	D			
N:N	ORM	AL	NO:	NORMA	LLY C	OPEN	ALA	RM_S	UMMA	RY_C
1.A	-NO	:	FIRE							
2.A	-NO	:	GAS							
3.N	-NO	:	DOOI	R OPEN						
4.N	-NO	:	THIE	F						
5.N	-NO	:	DI_1	1:46						
6.N	-NO	:	DI_1	5:31						
7.N	-NO	:	DI_1	5:19						
8.N	-NO	:	DI 14	1:27						

As the picture is displayed as such, both D/I 1 and D/I 2 have been triggered, the web page shows abnormalities colored in red. User may both receive email and SMS notifications (if he has set email/SMS notification to enabled selection.







5.3.5 ASCII data as received from UART interface

TP_ESMS_8 Board is able to take in ASCII data as received from UART interface and display them as such. The said ASCII data can be viewed on the real-time basis thru a web-enable browser; however, the character strings of ASCII data should conform to the following example.

5.3.6 Standard format of ASCII data

The standard format should be like this: **\$RYCX=...\r R** means the location of horizontal Row that an ASCII string starts; it ranges from 1-8; **C** means the location of vertical Column that an ASCII string starts, it ranges from 1-40; ... means the displayed contents on the monitor screen. Its maximum length should not exceed 40 alphanumeric characters (Note: the limit depends on the location of R,C) **r** means the termination of a ASCII string

For example, if wanting to insert a character string of ASCII data at the location of Row 3, Column 7, displaying 123 on the screen monitor, then the format and its corresponding converted ASCII codes should be:

0D,24,52,33,43,37,3D,31,32,33,5C,72,0D

To simplify this format as possible,

If user usually inserts ASCII data at forefront Columns, which always means Column=0, and at different horizontal Rows, which mean Row can be 1 or 2 or 3 or 4....,etc Then he is able to find out that

the acceptable variant of format can be: \$RY=...

With this, user can compose some ASCII data, for example

0D,24,52,31,3D,31,32,33,34,35,36,0D to display an alphanumeric string 123456 0D,24,52,32,3D,36,37,38,39,31,32,0D to display 678912 0D,24,52,33,3D,32,33,34,35,36,37,38,39,0D to display 23456789

C TOPOINT_MONITORING_SYSTEM - Windows Internet Explorer		
🗿 🖓 🕶 🔊 http://192.1680.101/data.htm	💌 🔁 🚧 🗶 🚮 Congle	ρ-
瘤素型 編輯型 橡模型 索約器要因 工具团 副务团		
🚖 老田山前田 🏤 🍋 Mohile - 田F Yahool 町庫 💽 Google	🏠 · 🗇 · 🗆 🖶 · 🛲 🖸 -	· ±±#⊗• *
COPOINT_NORITORING_SYSTEM		
D DATA C AL	ATA ARM SUMMARY	Î
1. 123456		
2. 678912		
3. 23456789		



5.3.7 More examples of ASCII data

As said, there are 8 rows/ 40 columns to accommodate ASCII data. The example photo below shows that grids have been covered fully.

TOPOINT_MONITORING_SYSTEM - Windows Internet Explorer		8
🔄 🕢 👻 📔 http://192.168.0.101/8ata.htm	📓 🔂 😽 🗙 🚰 Coogle	9
檔案 E 編輯 B 檢視 C 轰的 最至 (A) 工具 D 脱明 B		
🚖 我的最爱 🛛 🖕 😋 Mobile * 🞯! Yahoo!奇摩 🕓 Google	💁 · 🖾 - 🗔 🖶 · 網頁① · 安全性③ ·	
TOPOINT_MONITORING_SYSTEM		
<u>DATA_C</u> <u>A</u>	LARM_SUMMARY	
		-
1 ADODEECHUIZI MNODOD	STUVWWW712245679001224	
I. ABCDEFGHIJKLMNOPQR	KS1UVWAYZ123450/8901234	
A BCDEECHLIKI MNOPOR	STUVWVV712345678001234	
2. ADCDEFOIIISKEMINOI QK	X310VWX1212343078901234	
3. ABCDEFGHLIKLMNOPOR	STUVWXYZ12345678901234	
4. ABCDEFGHIJKLMNOPQR	RSTUVWXYZ12345678901234	
5. ABCDEFGHIJKLMNOPQR	RSTUVWXYZ12345678901234	
6. ABCDEFGHIJKLMNOPQR	KSTUVWXYZ12345678901234	
7 A DODEECHLIKI MNODOD	STIWWWW712245679001224	
7. ADUDEFGHIJKLMINOPQK	ASTUVWA12123430/8901234	
8 ABCDEECHLIKI MNOPOR	STUVWXV712345678901234	
6. ADCDEFGHIJKEMINOI QK	GIUVVAI212545078901254	
	CE *	1.00

5.3.8 Go to the web-page view of ASCII data

INAME	IP	VERSION
AR_145 Step1	192.168.0.101	TP_ESMS8V1.6130305SN1
TOFOINT_MONITORING_SYSTEM - Windows Inferent Ex	planer	
(1) 100 (100 (100 (100 (100 (100 (100 (1		🖉 🗟 🤲 🛪 🖓 Google
🛊 和約載者 🛛 🚕 🤐 Mobile - 🞯 Yalaool 彩輝 💽 Occugle		N
		M . M . MW. W.R.C. XIEW
TOPOIRT_MONITORING_SYSTEM	_SUMMARY D	ATA topoint
ALARM A:ALARM NC: NOF N:NORMAL NO: NOF	SUMMARY D	Step2 ATA topoint SED N ALARM_SUMMARY_
ALARM ALARM NC: NOF N:NORMAL NO: NOF	SUMMARY D RMALLY CLOS RMALLY OPEN	Step2 ATA topoint SED N ALARM_SUMMARY_
ALARM ALARM ALARM NC: NOF NORMAL NO: NOF MONING MONING AND	SUMMARY D RMALLY CLOS RMALLY OPEN	Step2 ATA topoint SED N ALARM_SUMMARY_
	SUMMARY D RMALLY CLOS RMALLY OPEN	Step2 ATA topoint SED N ALARM_SUMMARY_
	SUMMARY D. RMALLY CLOS RMALLY OPEN	Step2 ATA topoint SED N ALARM_SUMMARY_

Step1: Double-click on TP_ESMS_8 device as displayed under SetIP tag Step2: User is redirected to the built-in browser where he can view ALARM_SUMMARY of 8 D/I status. Click on DATA hyperlink

Step3: User is redirected to DATA view of ASCII strings that are received from UART interface. He may further click on <u>DATA_C</u> to activate auto refresh of web-page view on the intervals of every second.

5.3.9 Wiring Connection (for ASCII transmission)



Tx: 1st pin

Rx: 2nd pin

5V: TP_ESMS_8 Board may accept 5VDC in case it has to work independently (in the absence of Arduino Board)

GND: Ground



6 UPGRADE

TP_ESMS_8 accepts firmware upgrade via Ethernet LAN. See photos below for step-by-step instruction.

Before firmware upgrade, user must have newest version of TP_ESMS_8.exe application software ready. This application firmware is provided by TOPOINT CORP

	TT TO TOMO O (S.	tWob) Read OF	
	Upgrade SetIp SetWeb	SetEmail Version	
	Ste		
	AR_145	192.168.0.101 TP_ESMS8V1.6130305SN1	
	Step	93	
	MAC :	00 11 CA 3C 3F 3D Modify	
	IP :	192 . 168 . 0 . 101 ▼ DHCP Enable	
	MASK :	255 . 255 . 255 . 0	
	GATEWAY :	192 . 168 . 0 . 1	
	DNS :		
	HTTP PORT :	80 UDP PORT : 4660	
	NAME :	AH_145	
	✓ Upgrade Ena	ble	
	Step4		
		Step2	
		0.092	
Step1: Execute the	e newest versio	n of TP ESMS 8.exe. User will have to	locate a hardware
TP_ESMS_8 Board	d first before a	firmware upgrade. Go to SetIP tag	
Step2: Press Searc	ch to find availa	able TP_ESMS_8 Board	
Step3: After a few	moments of	search, TP_ESMS_8 Board (AR_145) i	s displayed at the
upmost row with co	orresponding IF	and Version. A click on AR_145 to turn it	to blue bar
Step4: Check Upgr	ade Enable		
[
	Upgrade jettp SetWeb	Web) Read OK 🛛 🕹 🕹 🕹 🕹 🕹 🕹 🕹 🕹	4
	Step5		r
	AR_145	192.168.0.101 TP_ESMS8V1.6130305SN1	

MAC :	00 11 CA 3C 3F 3D	☐ Modify
IP:	192 . 168 . 0 . 101	DHCP Enabl
MASK :	255 . 255 . 255 . 0	Ĩ

Step5: Switch to Upgrade tag



TOPOINT

Step6: Press Start to launch firmware upgrade.

r TP_ESMS_8 (Download)	
Upgrade SetIp SetWeb SetEmail Version	
Network Interface : 192.168.0.103 -	
	Step7
Stop	

Step7: Firmware upgrade is being processed.

ig TP_ESMS_8 (Download)	
Upgrade SetIp SetWeb SetEmail Version	
Network Interface : 192.168.0.103	
	Step8
Start	

Step8: Firmware upgrade is finished.