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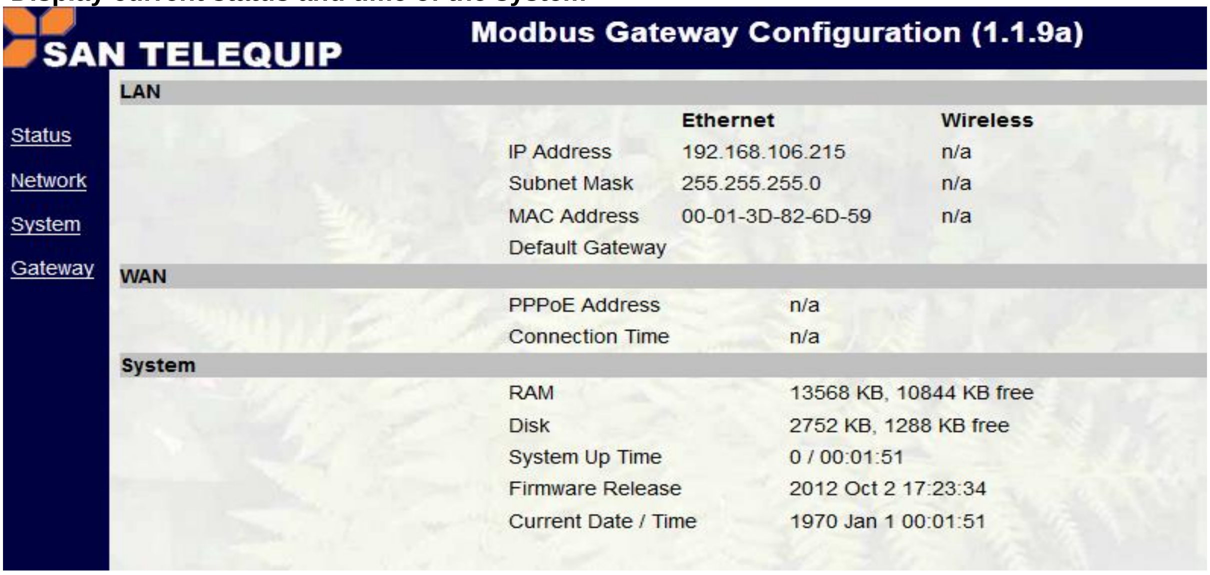
SAN TELEQUIP
Connecting. Converting. Leading!

Document Name: User Manual for SC10MK Series Modbus RTU to Modbus TCP Converter.

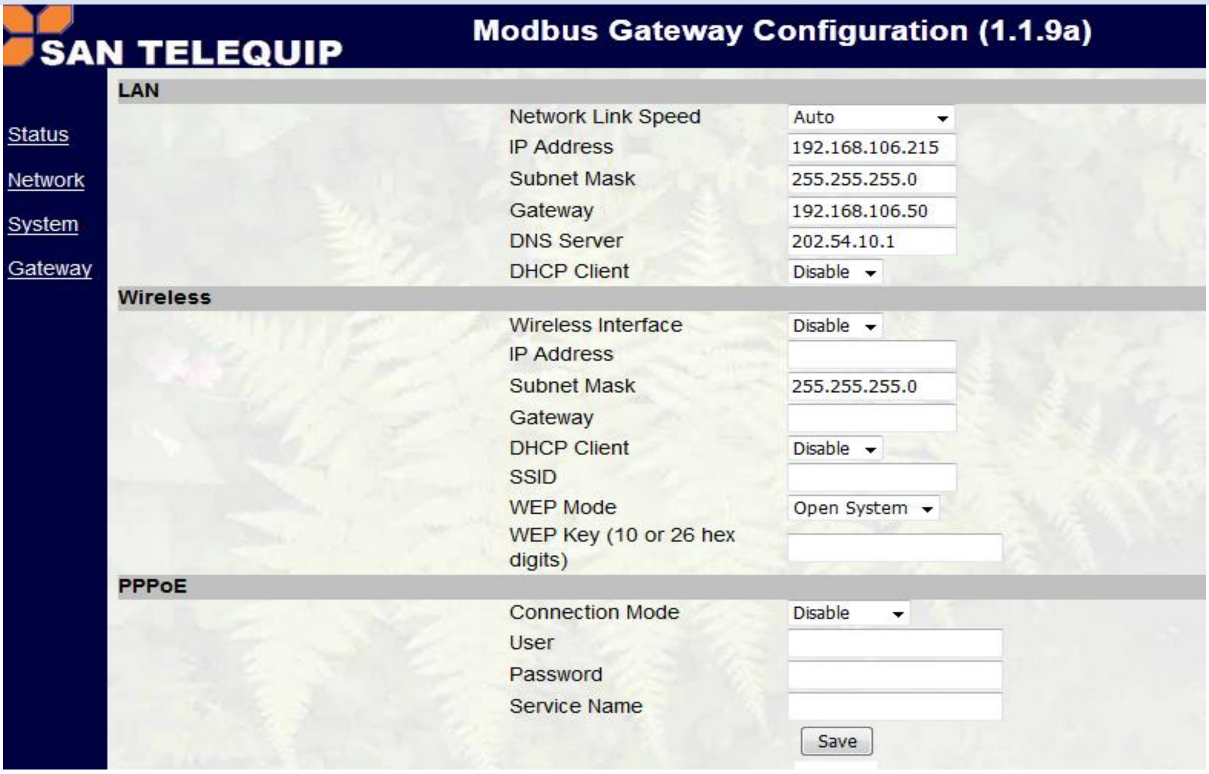
Login for the first time, please use http://192.168.1.100
To key in user name and password is for identifying authorization. Default user name characters are “admin” and password characters are “ “(empty). And then just click “OK” button.

Status

Display current status and time of the system



Network



Modbus Gateway Configuration:

1. LAN:

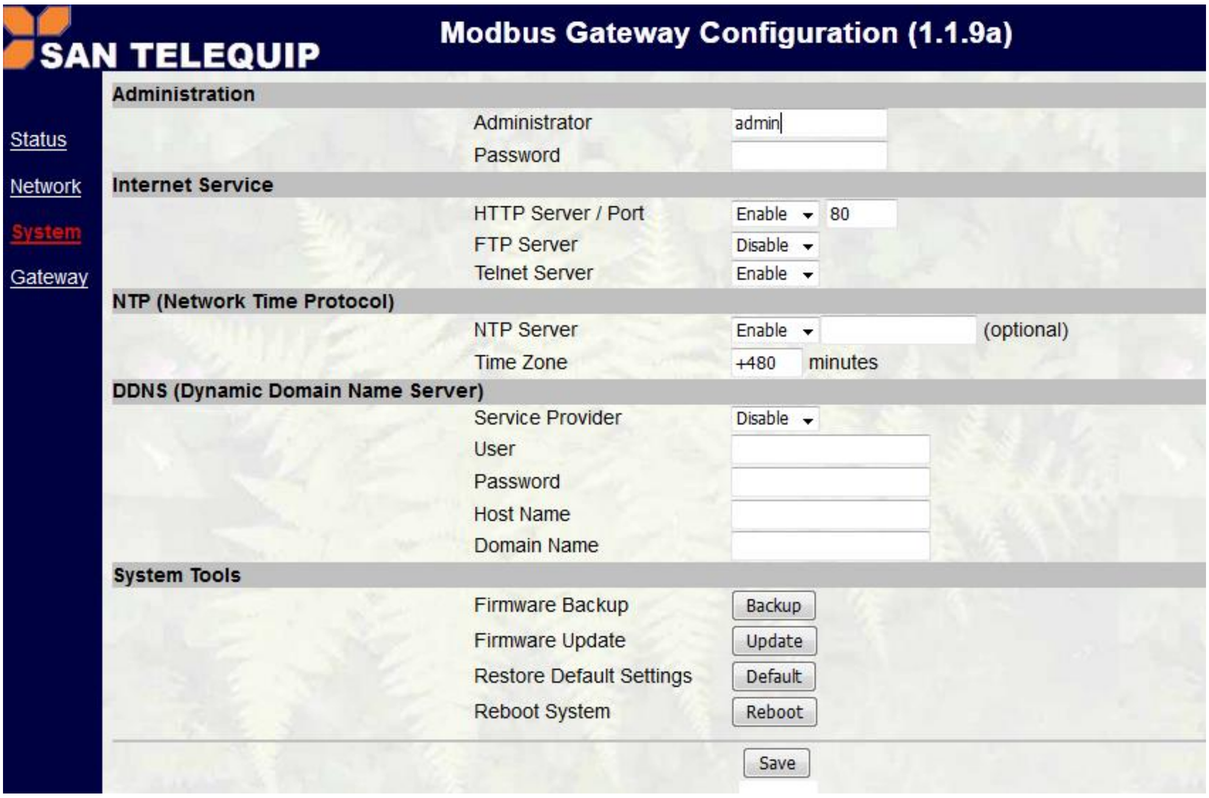
a) Network Link Speed: default value is “Auto”
b) IP Address : default value is “192.168.1.100”
c) Subnet Mask : default value is “255.255.255.0”
d) Gateway : default value is ”blank”
e) DNS Server : default value is “192.95.192.1”
f) DHCP Client : Network configuration information automatically acquired default value is “Disable”

2. Wireless. Not Available at the moment **(For** future requirement.)

3. PPPoE: Ethernet Point to Point Protocol Internet, through ADSL modem connected to the Internet.

a. Connection Mode : Disable, Always-on, Manual. Default Value is “disable”
b. User Name : ADSL dial-up account
c. Password : ADSL account password.
d. Service Name : definable

System



1. Administration

a) Administrator : The default value is admin.
b) Password : self changeable, the default value is empty.

2. Internet Service

a. HTTP Server / Port : Enable/Disable, the port default is 80.
b. FTP Server : Enable/Disable, The default is Disable.
c. Telnet Server : Allows the user to re-connect remotely using the telnet server Enable/Disable

3. NTP (Network Time Protocol): This option can automatically update the system time

a) NTP Server : Enable/ Disable
b) Time Zone : Choose

4. DDNS Dynamic Domain Name Server

a) Service Provider : Disable /no IP, The default is Disable
b) User : registered account
c) Password : password of registered account
d) Host Name : the URL
e) Domain Name: : Contact your System Admin for details

5. System Tool:

a) Firmware Backup : Users can follow the instructions to save the firmware data file.
b) Firmware Update : Prepare the updated firmware first and upload the firmware accordingly to the instruction.
c) Restore Default Settings
d) Reboot System:

After change parameters, please be sure to click Save below to save the parameter.

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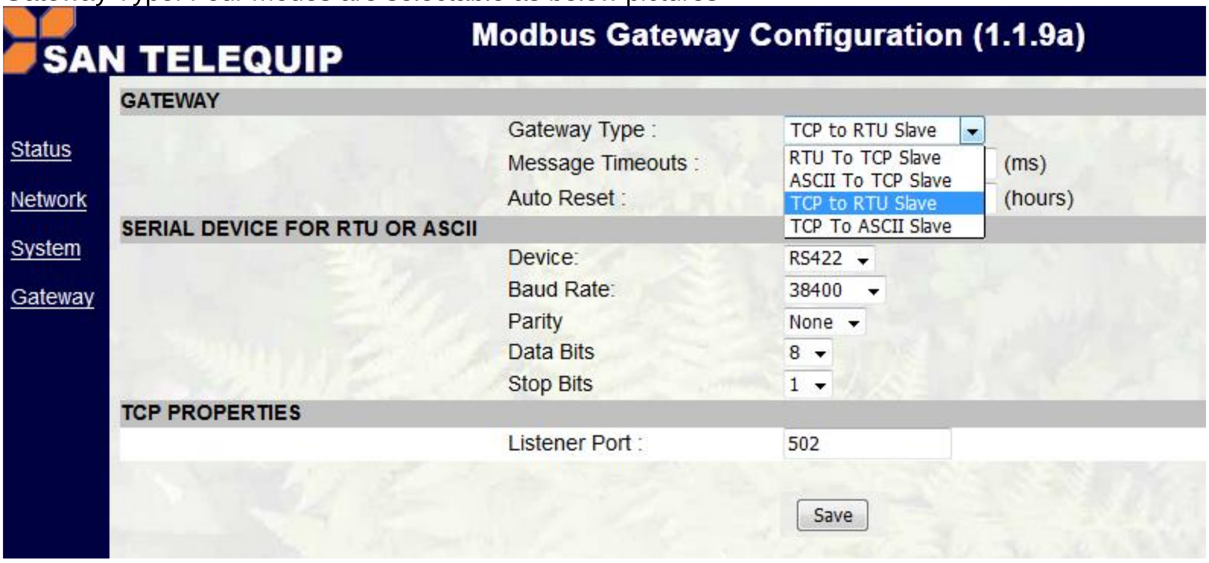
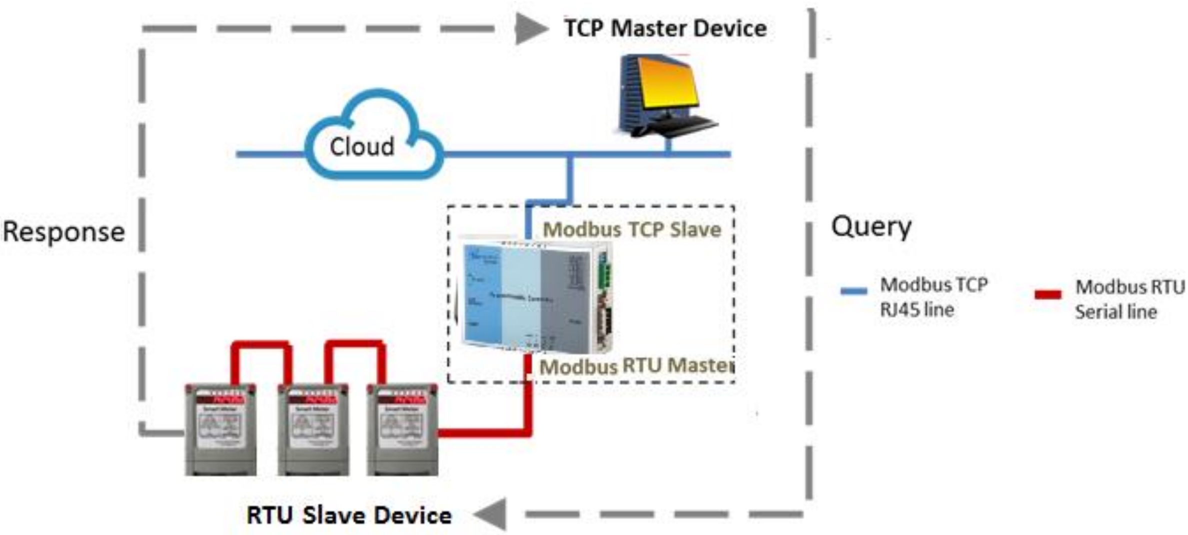
Gateway

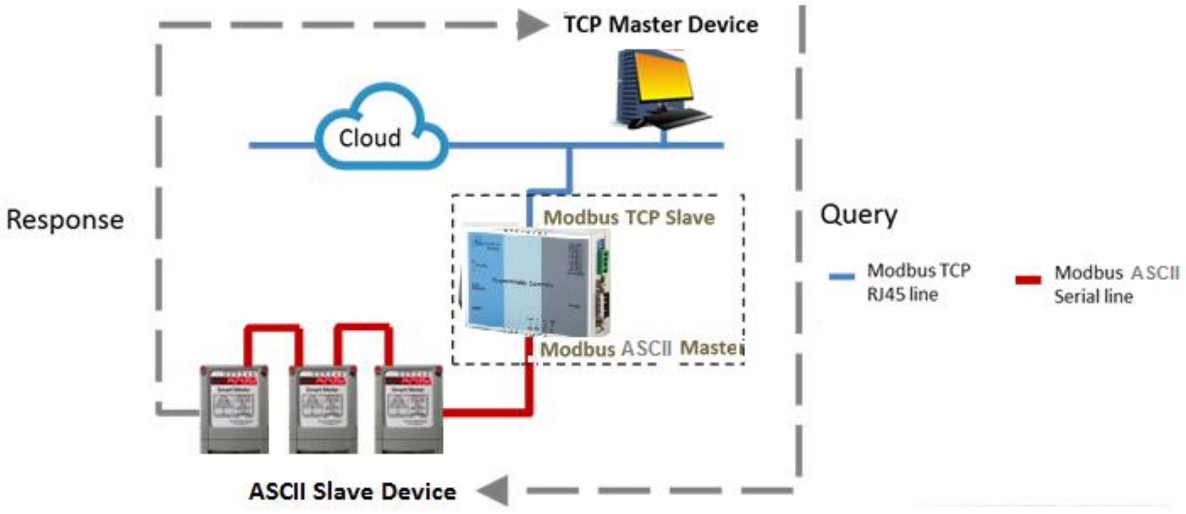
Gateway Type: Four modes are selectable as below pictures



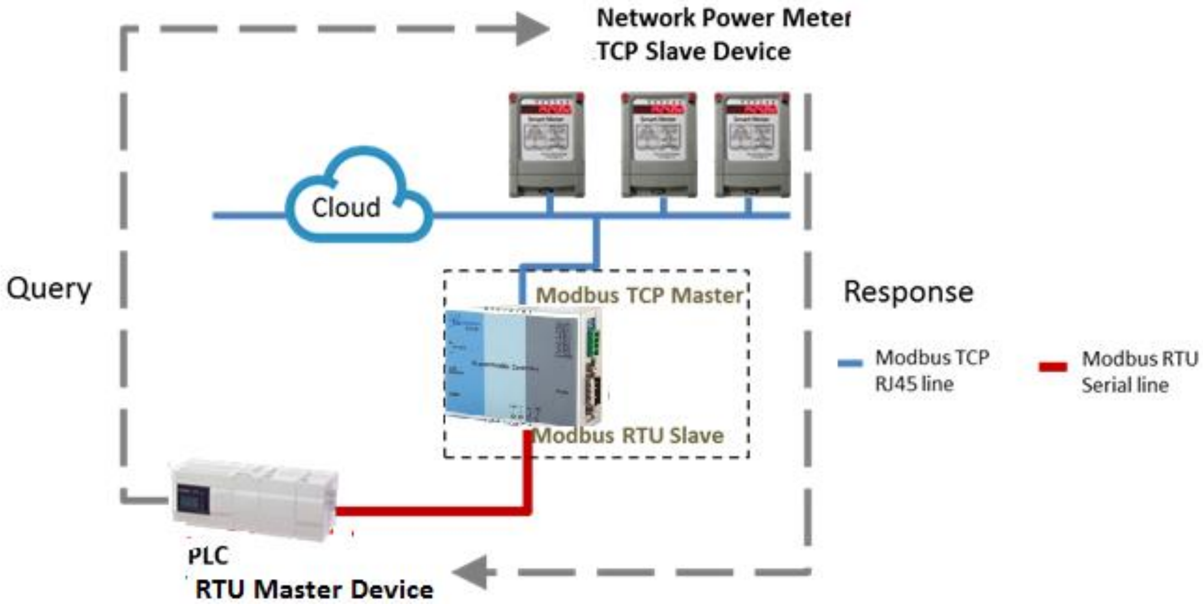
TCP to RTU Slave **:-** diagram as below. TCP Master Device (ex. Modscan / SCADA system) sends query to RTU Slave device then RTU Slave device response back to TCP Master's requirement. Inside the Modbus gateway, there are TCP Slave & RTU Master counterparts respectively



TCP to ASCII Slave : TCP Master Device (ex. Modscan / SCADA system) sends query to ASCII Slave device then ASCII Slave device response back to TCP Master's requirement. Inside the Modbus gateway, there are TCP Slave & ASCII Master counterparts respectively



RTU to TCP Slave : **D**iagram as below. RTU Master Device (ex. PLC / Modscan) sends query to TCP Slave device; then TCP Slave device response back to RTU Master's requirement. Inside the Modbus gateway, there are TCP Master & RTU Slave counterparts respectively.



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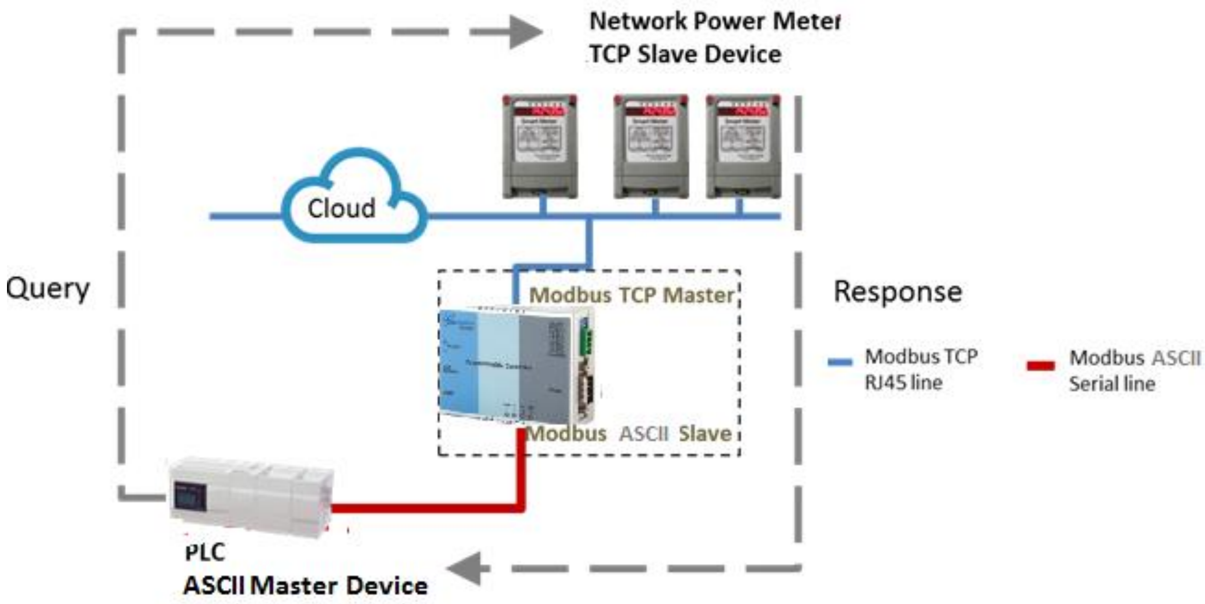
ASCII to TCP Slave **:** ASCII Master Device (ex. PLC / Modscan) sends query to TCP Slave device; then TCP Slave device response back to ASCII Master's requirement. Inside the Modbus gateway, there are TCP Master & ASCII Slave counterparts respectively.



GATEWAY

1. Gateway Type : default value is TCP to RTU Slave.
2. Message Timeouts : default value is 500ms
3. Auto Reset : default 0 hours

Serial Device for RTU or ASCII

1. Device : Serial device type currently supports RS232, RS485 and RS422
2. Baud Rate : 300 to 230kbps.
3. Parity : None, Odd, Even
4. Data Bits : 5,6,7,8.
5. Stop Bits : 1, 2

TCP Properties

TCP Slave : Port can be specified, if not specified will use the default value 502.

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COMMUNICATION PORT DETAILS

RS232 Port Details of SC10MKI

Pin No.	SIGNAL of SC10MKI
9 Pin D Male	
2	RX
3	TX
5	GND
7	RTS
8	CTS
4	DTR
6	DSR

CABLE DETAILS OF SC10MKI

For RS232 Side

SC10MKI Side	COM Port Side
TX	RX
RX	TX
RTS	CTS
CTS	RTS
DSR	DTR
DTR	DSR

For RS422

SIGNAL of SC10MKI	Will Connect to
TX +	RX + of your device.
TX --	RX -- of your device.
RX +	TX + of your device.
RX --	TX – of your device.

For RS485, 2 wire

SIGNAL of SC10MKI	Will Connect to
D + / RX+	TX + of your device.
D -- / RX-	TX -- of your device.

POWER SUPPLY

230V AC Range 110 to 265V AC, 3 Pin TB Connecter.
OR 24V ,48V, 110V,220V DC.

USB

For future requirement.

LED INDICATION

PWR : When the Power is on the green LED will be ON.
SYS : Will blink every second once the system starts.
10M : The green LED will light and blink when network speed is 10M.
100M : The red LED will light and blink when network speed is 100M