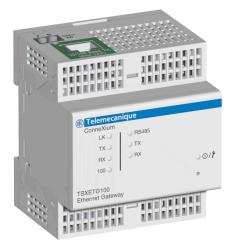
Instruction Bulletin

ConneXium Ethernet Gateway TSXETG100 User's Guide

Instrucciones en Español: página 19 Instructions en Français: page 39 Anweisungen auf Deutsch: Seite 59

Retain for future use.

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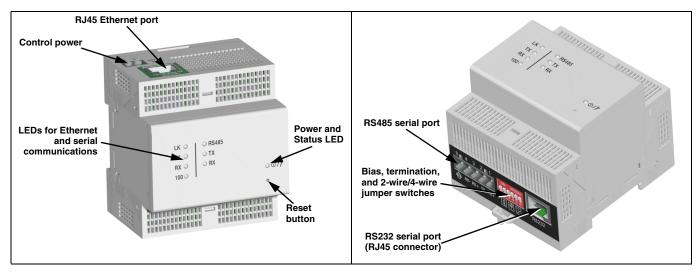


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INTRODUCTION This manual is to be used with a ConneXiumTM ETG100 with firmware version 2.0 or higher. For installation information, see the installation guide. The ETG100 is a communications device that provides connectivity between Ethernet (Modbus TCP/IP) and serial line devices, allowing Modbus TCP/IP clients to access information from serial slave devices. It also allows serial master devices to access information from slave devices distributed across an Ethernet network. Supported Ethernet Protocols The ETG supports the following Ethernet protocols: • Modbus TCP/IP: Modbus TCP/IP is a combination of the Modbus

- Modbus TCP/IP: Modbus TCP/IP is a combination of the Modbus protocol, which provides master-slave communication between devices, and TCP/IP, which provides communications over an Ethernet connection. Modbus TCP/IP is used to exchange data between the ETG and other compatible Modbus TCP/IP devices via TCP port 502.
- Hypertext Transfer Protocol (HTTP): HTTP is a network protocol that handles the delivery of files and data on the World Wide Web. It provides web server functionality via TCP port 80. Remote configuration of the ETG and the viewing of diagnostic data is possible using a web browser.
- File Transfer Protocol (FTP): FTP is a network protocol that provides the ability to transfer files over the Internet from one computer to another. FTP is used to transfer firmware updates to the ETG via TCP port 21.
- Simple Network Management Protocol (SNMP): Based on MIB2 format, SNMP provides the ability to store and send identifying and diagnostic information used for network management purposes via UDP port 161.
- Address Resolution Protocol (ARP): ARP is used to convert IP addresses to Ethernet addresses. ARP requests are sent by the ETG to determine if its address is a duplicate IP address (see "Duplicate IP Address Detection" on page 6).



Hardware

Additional Resources

ACCESSING THE ETG OVER A NETWORK

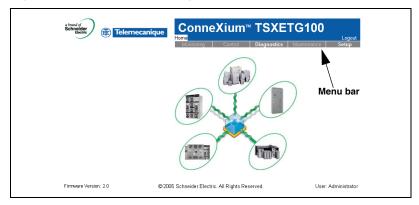
Logging into the ETG

Documentation and Firmware: Go to www.telemecanique.com, select Products > Products index > Systems and architectures > Connexium.

After you set up the Ethernet parameters (see the installation guide), you can access the ETG over an Ethernet LAN using Internet Explorer 6.0 or higher.

	Action	Result
1.	Launch Internet Explorer 6.0 or higher.	Opens Internet Explorer.
2.	In the Address text box, type the address of your ETG (169.254.0.10 is the default), then press Enter.	Opens the Login dialog box.
3.	Type your user name (<i>Administrator</i> is the default) and password (<i>Gateway</i> is the default) into the text boxes, then click OK .	Enters the user name and password, then opens the ETG home page.
4.	Click Setup to access the ETG setup page, or click Diagnostics to access the ETG diagnostics page.	Opens the Setup or Diagnostics pages.





Logging Out

We recommend logging out whenever you do not need access to the ETG.

To log out of the ETG configuration session, click **Log Out** to end your session.

ETG USER INTERFACE OVERVIEW

The ETG ships with seven pre-installed web pages used for ETG setup and configuration. See Table 1 for a description of each web page.

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ETG Web Page	Description	See Page
Setup		
Ethernet & TCP/IP	Configure Ethernet and TCP/IP communication settings.	5
Serial Port	Set up or change serial communication parameters.	7
Device List	Identify serial devices on the daisy chain.	8
User Accounts ^①	Create and edit groups and users.	10
Web Page Access ^①	Select web page access rights for each user group.	11
Modbus TCP/IP Filtering $^{\rm T}$	Set up which IP addresses can access the ETG through Modbus TCP/IP.	12
SNMP Parameters ^{$①$}	Enable and configure the Simple Network Management Protocol (SNMP), which allows the ETG to identify itself to network devices requesting SNMP data.	13
Diagnostics		
Statistics	Displays diagnostic data used to troubleshoot network problems. This page also contains information about your specific ETG, including the serial number, manufacturing date, and Media Access Control (MAC) address.	14
Read Device Registers	Allows ETG administrators to read register data from a serial device connected to the ETG.	17

^①Accessible by administrator only

Result

Opens the Ethernet & TCP/IP page.

Selects the frame format and media type.

Enters the Ethernet parameters for the ETG.

NOTE: If you enter an IP address that is used

by another device, you will be prompted to select a new IP address. See "Duplicate IP

Updates the ETG Ethernet and TCP/IP

Address Detection" on page 6.

SETUP

Ethernet and TCP/IP Settings

To access the Setup web page links, click **Setup** on the **ETG menu bar**.

* See Table 2 on page 5 for a	list of options.
-------------------------------	------------------

Action

From the Setup page, click Ethernet &

Select your frame format and media type.

Contact your network administrator if you

Enter your IP address, subnet mask, and

default gateway address assigned to your

ETG by your network administrator.

1.

2.

3.

TCP/IP.

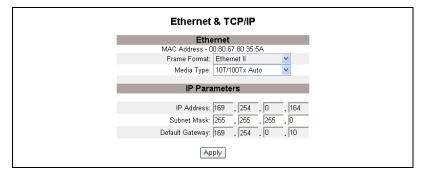
do not know.

4. Click Apply.

NOTE: After making changes to the Ethernet parameters and clicking Apply, the ETG will reboot.

settings.

Figure 2: Ethernet & TCP/IP Page





Option	Description	Setting
Frame Format	Used to select the format for data sent over	Ethernet II, 802.3 SNAP
	an Ethernet connection.	Default: Ethernet II
Media Type	Used to define the physical Ethernet connection or media type.	 10T/100Tx Auto 10BaseT-HD 10BaseT-FD 100BaseTX-HD 100BaseTX-FD
		Default: 10T/100Tx Auto
IP Address	Used to enter the static IP address of the	0.0.0.0 to 255.255.255.255
	ETG.	Default: 169.254.0.10
Subnet Mask	Used to enter the Ethernet IP subnet mask	0.0.0.0 to 255.255.255.255
	address of your network.	Default: 255.255.0.0
Default Gateway	Used to enter the gateway (router) IP	0.0.0.0 to 255.255.255.255
	address used for wide area network (WAN) communications.	Default: 0.0.0.0

Duplicate IP Address Detection

While connected to your network, the ETG publishes its IP address. To avoid any duplicate IP address conflicts, the ETG uses the Address Resolution Protocol (ARP) to see if any other device on your network is using the same IP address. Table 3 below explains how the ETG handles a duplicate IP address when it is detected.

Table 3:	Duplicate IP	Detection	Scenarios
1 4010 01	Bupnouto n	Bottootion	0001101100

Scenario	Duplicate IP Detected	Power/Status LED
Boot Process / Power Restore	Reverts to the default ETG IP address, subnet mask, and gateway	Four blinks, pause pattern
Ethernet Link Detected	address. ARP requests are sent every 15 seconds until the IP address is available. When the IP address becomes available, the ETG will use it.	
Manual Address Change	ETG keeps it's previous IP address and displays a message indicating that the IP address is already in use by another device.	
Receives an ARP request	Reverts to the default ETG IP address, subnet mask, and gateway address if a connected device sends four ARP requests for the ETG's IP address. The ETG will send ARP requests every 15 seconds until the IP address is available again. When the IP address becomes available, the ETG will use it.	Four blinks, pause pattern

Serial Port

	Action	Result
1.	From the Setup page, click Serial Port.	Opens the Serial Port page.
2.	Select your mode, physical interface, transmission mode, baud rate, parity, and response timeout (see Table 4 on page 7).	Selects the serial port options.
3.	If you select Slave mode, enter the IP addresses for the remotely connected devices (see Table 4 on page 7).	Enters the IP addresses of the remote devices.
4.	Click Apply.	Updates the ETG Serial Port settings.



	Serial Port	
Mode:	Master 👻	
Physical Interface:	RS485 4-wire 🗸 🗸	
Transmission Mode:	Modbus RTU 🛛 👻	
Baud Rate:	19200 💌	
Parity:	Even 💌	·
Response Timeout:	3	(Seconds)
	Apply	



Option	Description	Setting
Mode	Used to select how the COM port on the ETG is utilized (master or slave).	Master, Slave
	NOTE: When the Mode is changed, the ETG reboots.	Default: Master
Physical Interface	Used to select how the ETG serial port is physically wired.	RS485 4-wire, RS485 2-wire, or RS232
		Default: RS485 2-wire
Transmission	Used to select how data is transmitted over	Modbus RTU, Modbus ASCII
Mode	a serial connection.	Default: Modbus RTU
Baud Rate	Used to select the data transmission speed over a serial connection.	2400, 4800, 9600, 19200, 38400, 56000*, 57600*
		Default: 19200
Parity	Used to select if data is checked for	Even, None
	accuracy using a parity bit.	Default: Even
Response Timeout	Used to select how long the ETG will wait	0.1 to 10 seconds
	to receive a response from a serial device.	Default: 3 seconds
Remote Modbus TCP/IP Connections (Slave mode only)	Used to define a list of Modbus TCP/IP addresses for the ETG to use during slave mode communications.	_
* Available only if th	e physical interface and transmission mode i	s RS232/Modbus ASCII.

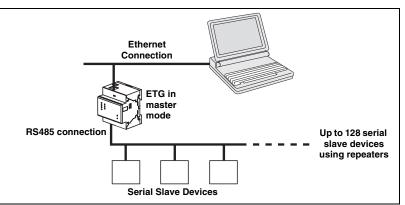
Device List

For master mode usage of the COM port:

• Modbus devices do not have to be defined in the Device List, but it helps you manage your system.

Master Mode Device List Setup





If you selected Master mode on the Serial Port page, follow the steps below to set up the device list:

	Action	Result
1.	From the Setup page, click Device List.	Opens the Device List page.
2.	Select the number of viewable devices (1 to 128), then click Apply .	Selects the number of viewable locations that can be used to define serial slave devices connected to the ETG.
3.	In the Local ID text box, type the local ID (address) of the serial slave device.	Enters the local address of the device.
4.	Repeat step 3 until all of the devices are entered.	Enters all of the connected devices.
5.	Click Apply.	Updates the Device List settings.

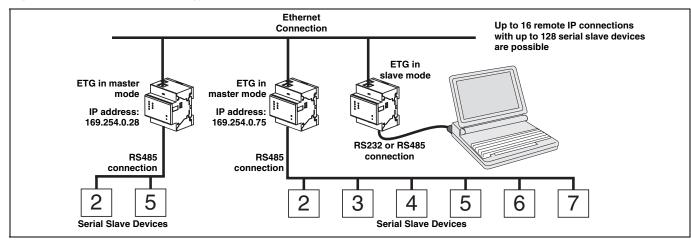


Device List	
Number of Viewable Devices:	8 🗸
Local ID	
1	
2	
3	
4	
5	
6	
7	
8	
Apply	

Slave Mode Device List Setup

Serial port slave mode allows serial Modbus master devices to access information from serial slave devices across a TCP/IP network. Figure 6 below illustrates how the devices are connected using the device list settings in Figure 7.

Figure 6: Slave Mode Topology



If you selected Slave mode on the Serial Port page, follow the steps below to set up the device list:

	Action	Result
1.	From the Setup page, click Device List.	Opens the Device List page.
2.	Select the number of viewable devices (1 to 128), then click Apply .	Selects the number of viewable locations that can be used to define remote Modbus TCP/IP devices.
3.	In the Local ID text box, type the local ID (address) of the serial slave device.	Enters the address of the device that the local Modbus master device will use to access the remote device.
4.	In the Remote ID text box, type the remote ID (address) of the serial slave device.	Enters the serial slave address of the remotely connected device.
5.	Select the Connection .	Selects the Modbus TCP/IP address to associate with the remote ID.
6.	Repeat steps 3 through 5 until all of the devices are entered.	Enters all of the mapping information for the ETG to communicate to the remote devices.
7.	Click Apply.	Updates the Device List settings.

Figure 7: Device List Page in Slave Mode

	Device List		
Number	of Viewable Devices:	8 💌	
Local ID	Remote ID	Connection	
1	2	169.254.0.28 💌	
2	5	169.254.0.28 💌	
3	2	169.254.0.75 💌	
4	3	169.254.0.75 💌	
5	4	169.254.0.75 💌	
6	5	169.254.0.75 💌	
7	6	169.254.0.75 💌	
8	7	169.254.0.75 💌	
	Apply		

User Accounts

NOTE: There are two default user accounts: Administrator (password is Gateway) and Guest (password is Guest).

	Action	Result
1.	From the Setup page, click User Accounts.	Opens the User Accounts page.
2.	If you want to change a group name, type a new name in one of the Groups text boxes (the Administrator group name cannot be changed).	Enters a new group name.
3.	In the Users section, enter a Name (1 to 24 characters) and Password (0 to 12 characters) for a new user.	Enters the name and password for a user.
	NOTE: User names and passwords are case-sensitive and can contain only alphanumeric characters.	
4.	Select a group and the default language for the new user.	Selects the group and language for a user.
5.	Repeat steps 3 and 4 for each additional user you want to add.	Continues adding users.
6.	Click Apply.	Saves all of the user account settings.

Table 5: ETG accounts and passwords

Account	Default Password
Administrator	Gateway
Guest	Guest
User-defined accounts (up to 11 accounts possible)	No default –Password is user-defined

Figure 8: **User Accounts Page**

User Accounts			
Groups			
Administrators	Engineering	Operations	Maintenance
	,	Jsers	
Name	Password	Group	Language
Administrator	•••••	Administrators 😪	English 💌
		Maintenance 👻	English 💌
		Maintenance 💌	English 💌
		Maintenance 🛩	English 💌
		Maintenance 👻	English 💌
		Maintenance 💌	English 💌
		Maintenance 💌	English 💌
		Maintenance 💌	English 🛩
		Maintenance 💌	English 💌
		Maintenance 💌	English 🛩
		Maintenance 💌	English 💌
		Maintenance 💌	English 💌
Guest		Guest 💙	English 💌

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Web Page Access

	Action	Result
1.	From the Setup page, click Web Page Access.	Opens the Web Page Access page.
2.	In the Ethernet & TCP/IP row, select the access level (None, Read-only, or Full) that each user group will have for the Ethernet & TCP/IP web page.	See Table 6 below for an explanation of access levels for each group.
3.	To allow Guest access to the web page, select Read-only under the Guest column.	Allows the default Guest group to access the web page.
	NOTE: If the Guest group is Read-only, other groups may only be set to Read-only or Full.	
4.	Repeat steps 2 and 3 for the Serial Port, Device List, Statistics, and Read Device Registers rows.	Selects the access level for each web page.
5.	Click Apply.	Saves the password settings.

Table 6: Group Access

Group	Access	
Administrator	Full access to all web pages	
	NOTE: We recommend that you change the default administrator password for system security the first time you log in.	
Guest	Read-only access to selected web pages.	
Three user-defined groups	Choosing from the following options, the administrator assigns web page access for each group. Access levels are as follows:	
	 None: a group has no access to selected web page Read-only: password grants a group read-only access to the selected web page Full: a group has the same access as the Administrator group to the selected web page 	



Web Page Access				
	Engineering	Operations	Maintenance	Guest
Ethernet & TCP/IP	Read-only 💌	Read-only 💌	Read-only 💌	None 💌
Serial Port	Read-only 🕶	Read-only 🗸	Read-only 🔽	None 💌
Device List	Read-only 🗸	Read-only 🗸	Read-only 💌	None 🗸
Statistics	Read-only 💌	Read-only 💌	Read-only 💌	None 💌
Read Device Registers	Read-only 💌	Read-only 💌	Read-only 💌	None 💌
		Apply		

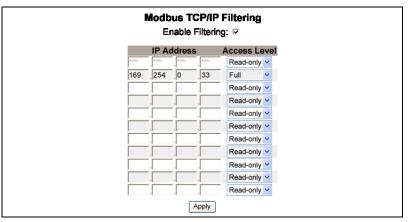
Modbus TCP/IP Filtering

This function allows the administrator to specify Modbus TCP/IP client devices that have or do not have access to serial slave devices connected to the ETG.

NOTE: There is an anonymous Modbus TCP/IP address (***.***.***) that can be set to Read-only or None. Setting it to **Read-only** allows any Modbus TCP/IP client not in the filtered list to access serial slave devices with read-only access. Setting it to **None** blocks all Modbus TCP/IP clients not in the filtered list.

	Action	Result
1.	From the Setup page, click Modbus TCP/IP Filtering.	Opens the Modbus TCP/IP Filtering page.
2.	Check Enable Filtering.	Activates filtering.
3.	In the IP address column, enter the Modbus TCP/IP client address	Enters an IP address for a Modbus TCP/IP client that will have access to the serial devices connected to the ETG.
4.	In the Access Level column, select Read- only or Full.	Selects the access level for the corresponding IP address. When set to Read-only, only the following Modbus TCP/IP function codes are allowed:
		Decimal: 1, 2, 3, 4, 7, 8, 11, 12, 17, 20, 24, 43, 100
		Hexadecimal: 01, 02, 03, 04, 07, 08, 0B, 0C, 11, 14, 18, 2B, 64
5.	Repeat steps 3 and 4 to add more IP addresses.	Continues adding IP addresses for filtering.
6.	Click Apply.	Saves the Modbus TCP/IP address filtering list.



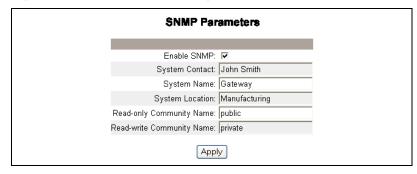


SNMP Parameters

The ETG supports SNMP, allowing a network administrator to remotely access an ETG with an SNMP manager and view the networking status and diagnostics in the MIB2 format.

	Action	Result
1.	From the Setup page, click SNMP Parameters.	Opens the SNMP Parameters page.
2.	Check Enable SNMP to turn ON the simple network management protocol.	Activates SNMP.
	NOTE: If you uncheck Enable SNMP and click Apply, the ETG will reboot and SNMP functionality will be turned OFF.	
3.	Enter the system contact, system name, system location, read-only community name, and the read-write community name.	Enters the SNMP system information and community access names.
4.	Click Apply.	Saves the SNMP settings.

Figure 11: SNMP Parameters Page



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	Action	Result
1. From the Diagnostics page, clic Statistics.	From the Diagnostics page, click Statistics .	Opens the Statistics page (see Figure 12). NOTE: The Statistics page displays data based
		on the mode selected in "Serial Port" on page 7.
2.	View the data.	See "Interpreting Statistics"below.
3.	Click Reset.	Resets the ETG cumulative diagnostic data to 0.

NOTE: This page will show accumulated readings since the ETG was last activated. If power to the ETG is lost, all cumulative values reset to zero.

Figure 12: Statistics Page

Reading with Serial Port in MASTER MODE	Reading with Serial Port in SLAVE MODE
Statistics	Statistics
Ethernet	Ethernet
Link Status: 100BaseTx-FD	Link Status: 100BaseTx-FD
Frames Transmitted OK: 375	Frames Transmitted OK: 2077256
Collisions: O	Collisions: O
Excessive Collisions: 0	Excessive Collisions: 0
Frames Received OK: 430	Frames Received OK: 2027312
CRC Errors: 0	CRC Errors: 0
Alignment Errors: 0	Alignment Errors: 0
Frames Too Long: 0	Frames Too Long: O
Frames Too Short: 0	Frames Too Short: 21
Modbus TCP/IP	Modbus TCP/IP
Frames Sent: 0	Frames Sent: 1976313
Frames Received: 0	Frames Received: 1976309
Protocol Errors: 0	Protocol Errors: 0
Active Connections: 0	Outbound Read Messages: 157829
Accumulative Connections: 0	Outbound Write Messages: 0
Maximum Connections: 0	Inbound Reply Messages: 157825
Inbound Read Messages: 0	Serial Port
Inbound Write Messages: 0	Frames Sent: 222353
Outbound Reply Messages: 0	Frames Received: 222357
Serial Port	CRC Errors: 0
Frames Sent: 0	Protocol Errors: 0
Frames Received: 0	Inbound Read Messages: 222357
CRC Errors: 0	Inbound Write Messages: 0
Protocol Errors: 0	Gateway Information
Timeouts: 0	Firmware Version: 2.000
Outbound Read Messages: 0	System Idle Time: 43%
Outbound Write Messages: 0	MAC Address: 00:80:67:80:35:5A
Gateway Information	Serial Number: 33000001
Firmware Version: 2.000	Model Number: TSXETG100
System Idle Time: 43%	Hardware Version: A1
MAC Address: 00:80:67:80:35:5A	Manufacture Date: 2005-Jan-01
Serial Number: 33000001	
Model Number: TSXETG100	Reset
Hardware Version: A1	
Manufacture Date: 2005-Jan-01	
Reset	
Heset	

Interpreting Statistics

Statistic	Description
Ethernet	
Link Status	A status string that represents the speed and duplex setting being used to communicate with the linking partner.
Frames Transmitted OK	A counter that increments each time a frame is successfully transmitted.
Collisions	A counter that increments each time a frame is retransmitted due to collision detection.
Excessive Collisions	A counter that increments each time a frame is not able to be sent due to reaching the maximum collision status based on the Truncated Binary Exponential Backoff algorithm.
Frames Received OK	A counter that increments each time a frame is successfully received.
CRC Errors	A counter that increments each time a frame is received that has a checksum/CRC that does not match what is calculated.
Alignment Errors	A counter that increments each time a frame is received that has a checksum/CRC error and does not end on an 8-bit frame boundary.
Frames Too Long	A counter that increments each time a frame is received that is larger than the allowed maximum size defined in the standards (frames larger than 1518 bytes).
Frames Too Short	A counter that increments each time a frame is received that is smaller than the allowed minimum size defined in the standards (frames smaller than 64 bytes).
Modbus TCP/IP	
Frames Sent	A counter that increments each time a frame is sent.
Frames Received	A counter that increments each time a frame is received.
Protocol Errors	A counter that increments each time an ill-formed message is received.
Active Connections $^{\oplus}$	A status value that represents the number of connections that are active at the moment the diagnostics page is refreshed. A maximum of 32 connections are supported. Clicking Active Connections opens a new window with a list of all of the active client connections.
Accumulative Connections ^{$①$}	A counter that increments each time a connection is made to the ETG.
Maximum Connections $^{\mathbb{D}}$	A status value that represents the maximum number of connections that were active at any given moment.
Inbound Read Messages $^{\oplus}$	A counter that increments each time a read request message is received.
Outbound Read Messages ²	A counter that increments each time a read request message is sent.
Inbound Write Messages $^{\mathbb{O}}$	A counter that increments each time a write request message is received.
Outbound Write Messages [®]	A counter that increments each time a write request message is sent.
Inbound Reply Messages [®]	A counter that increments each time a reply message is received.
Outbound Reply Messages [®]	A counter that increments each time a reply message is sent.

 $^{\ensuremath{\mathbb O}}$ Available when the serial port is in Master mode.

 $^{\ensuremath{\oslash}}$ Available when the serial port is in Slave mode

Statistic	Description
Serial Port	
Frames Sent	A counter that increments each time a fram sent.
Frames Received	A counter that increments each time a fram received.
CRC Errors	A counter that increments each time a message is received that has a CRC that d not match what is calculated. Typically the result of wiring issues.
Protocol Errors	A counter that increments each time an ill- formed message is received.
Timeouts	A counter that increments each time a requ message is sent without receiving a corresponding response message within th allowed time. Timeouts are typically the res of configuration errors or a non-responsive device.
Inbound Read Messages ²	A counter that increments each time a read request message is received.
Outbound Read Messages [®]	A counter that increments each time a reac request message is sent.
Inbound Write Messages ²	A counter that increments each time a write request message is received.
Outbound Write Messages $^{\oplus}$	A counter that increments each time a write request message is sent.
Gateway Information	
Firmware Version	The firmware version that is installed on the ETG.
System Idle Time	A percentage from 0% to 100% indicating t average processor time that is not being us
MAC Address	The unique Ethernet hardware address of a ETG.
Serial Number	The serial number of the ETG.
Model Number	The ETG model number (100).
Hardware Version	ETG hardware version.
Manufacture Date	Date the ETG was manufactured.
⁽¹⁾ Available when the serial port is in Master mo ⁽²⁾ Available when the serial port is in Slave mod	

Read Device Registers

	Action	Result
1.	From the Diagnostics page, click Read Device Registers.	Opens the Read Device Registers page.
2.	Enter the device ID, starting register number, and the number of registers to read.	Enters the values to begin reading registers for the specified device.
3.	Click Read Holding Registers or Read Input Registers.	Displays the values for the listed registers.
4.	To change how the data is displayed in the Value column, select Decimal , Hexadecimal , Binary , or ASCII .	Selects how the data values are displayed.

Table 7: ETG Read Device Register Settings

Option	Description	Default
Device ID	The address of the device that registers are read.	1
Starting Register	The first register to read.	1000
Number of Registers	The number of registers to read (1 to 10).	10
Register column	Lists the register numbers	-
Value column	Lists the data stored in a register.	-
Decimal, Hexadecimal, Binary, or ASCII options	Select an option to specify how the Value column data is displayed.	Decimal

Figure 13: Read Device Registers Page

Read Device Registers		
Device ID: 1	Starting Register: 1000	Number Of Registers:
Register	Value	
1000	D	Read Holding Registers
1001	D	Read Input Registers
1002	D	 Decimal
1003	D	 Hexadecimal
1004	0	◯ Binary
1005	0	O ASCII
1006	0	
1007	0	
1008	0	
1009	0	
-		-

FIRMWARE

ENGLISH

Finding the Firmware Version

Firmware on the ETG can be updated using File Transfer Protocol (FTP).
Check www.telemecanique.com or with your local sales representative for
the latest firmware update.

	Action	Result
1.	Log into the ETG.	Opens the ETG home page.
2.	Locate the firmware version on the bottom-left corner of the page.	Determines the firmware version of the ETG.
	NOTE: If you recently updated your firmware, press F5 to refresh the web page and update the displayed firmware number.	
3.	Alternatively, you can select Diagnostics > Statistics to find the firmware version in the Gateway Information section.	Also determines the firmware version of the ETG.

Getting New Firmware

	Action	Result
1.	Launch Internet Explorer, type www.telemecanique.com in the Address text box, then press Enter.	Opens the Telemecanique web site.
2.	Select Products, then click Product Index.	Opens the Products page.
3.	Select Systems and architectures.	Displays the Systems and architectures card.
4.	Click ConneXium.	Opens the ConneXium systems and architectures page.
5.	Click Software/firm.	Opens the software/firmware page.
6.	Click the firmware file link (eg####.bin, where ##### is the firmware number), then click Save .	Opens the File Download dialog box, then saves the firmware file.

Updating the Firmware File

	Action	Result
1.	Launch Internet Explorer, type <i>ftp://</i> and the IP address of the ETG in the Address text box (for example, <i>ftp://169.254.0.10</i>), then press Enter.	Opens the Log On As dialog box.
2.	Type the user name <i>Administrator</i> and the administrator password in the text boxes, then click Log On .	Opens an FTP session with the ETG.
3.	Locate the saved firmware file on your computer, select it, then press CTRL+C.	Copies the firmware file to the clipboard.
4.	Right-click in the Internet Explorer window, then click Paste .	Copies the firmware to the ETG, and the ETG reboots.
	NOTE: Instead of copying and pasting the firmware file, you can drag-and-drop the firmware file into Internet Explorer.	
5.	Click the Close button on the Internet Explorer window.	Closes Internet Explorer and ends the FTP connection to the ETG.
6.	To verify that the firmware version was updated successfully, follow the steps in "Finding the Firmware Version" on page 18.	Verifies the updated firmware version.

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	Maßnahme	Ergebnis
5.	Schließen Sie das Internet Explorer- Fenster.	Schließen von Internet Explorer und Beenden der FTP-Verbindung zum ETG
6.	Um zu kontrollieren, ob die Firmware- Version erfolgreich aktualisiert wurde, befolgen Sie die Schritte unter "Firmware- Version feststellen" auf Seite 77.	Überprüfung der aktualisierten Firmware- version

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