

BFR3000 – Modbus Router Product User Guide

Revision: 2.0.6 Platform: NNA1



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Overview

The BFR3000 Modbus Router product can move messages between Modbus RTU or Modbus ASCII networks and Modbus TCP/IP networks.

To configure the router you will set the router's network settings, configure device specific parameters for initial operation, and integrate the device into your application.

If at any time you need further assistance do not hesitate to call Real Time Automation support.

Support Hours are Monday-Friday 8am-5pm CST

Toll free: 800-249-1612 Email: support@rtaautomation.com



Mounting with a DIN Rail

Installing

Follow these steps to install your interface converter.

- 1) Mount your DIN Rail.
- 2) Hook the bottom mounting flange under the DIN Rail.
- 3) While pressing the BFR3000 against the rail, press up to engage the spring loaded lower clip and rotate the unit parallel to the DIN Rail.
- 4) Release upward pressure.



Removing

Follow these steps to remove your interface converter.

- 1) Press up on the unit to engage the spring loaded lower clip.
- 2) Swing top of the unit away from the DIN rail



Getting Started

You will need the following:

The BFR3000 router

The provided CD-ROM

• IPSetup.exe can also be downloaded:_

http://www.rtaautomation.com/product/460-gateway-support/

A PC with an internet browser

• Firefox / Internet Explorer / Google Chrome compatible

Powering the Router

A 24VDC power source to the 2-pin terminal on the router.

- The unit draws 175 mA at 12VDC
- The router has a voltage operating range from 12-24VDC.



Accessing the Main Page

The following steps will help you access the browser based configuration of the router. By default, DHCP is enabled. If the router fails to obtain an IP address over DHCP it will Auto IP with 169.254.X.Y.

1) Insert the provided CD-ROM into a computer also on the network.

🗱 RTA IPSetup V2.2	×
NDK Settings IP IP	Set> Setect a Unit Set> NAN054415 [00-03-F4-08-FA-28] AutolP at 169.254.
	Search Again Launch Webpage Advanced Help Close

- 2) Run the IPSetup.exe program from the CD-ROM.
- 3) Find unit under "Select a Unit".
 - a. Change IP address to match that of your PC if DHCP has failed.
 - i. You will know DHCP has failed if the router's IP address is Auto IP at 169.254.X.Y.
 - ii. If successful it will say DHCP'd at ex: 192.168.0.100 or however your DCHP Client is setup.
- 4) Click Launch Webpage. The Operation Mode Selection page should appear.

Default setting is set to DHCP. If DHCP fails, default IP Address is 169.254.x.y



Error: Main Page Does Not Launch

If the Main Page does not launch, please verify the following:

- 1. Check that the PC is set for a valid IP Address
 - a. Open a MS-DOS Command Prompt
 - b. Type "ipconfig" and press enter
 - c. Note the PC's IP Address, Subnet, and Default Gateway
- 2. The router must be on the same Network/Subnet as the PC whether its setup for DHCP/Static.

Once you have both devices on the same network, you should be able to ping the router using a MS-DOS Command Prompt.



The Screenshot above shows a router that is currently set to a static IP Address of 192.168.0.100.

If you are able to successfully ping your router, open a browser and try to view the main page of the router by entering the IP Address of the router as the URL.





Operation Mode Selection

Upon startup, you will be directed to the Operation Mode Selection page. There are 3 modes of operation to select from:

- Modbus TCP/IP Client to Modbus RTU/ASCII Slave(s) Use this mode to connect up to 5 Modbus TCP/IP Client devices with up to 255 Modbus RTU/ASCII Slaves.
- Modbus TCP/IP Server(s) to Modbus RTU/ASCII Master Use this mode to connect up to 255 Modbus TCP/IP Server devices with a Modbus RTU/ASCII Master.
- Modbus TCP/IP Client to Modbus RTU/ASCII Master Use this mode to connect up to 5 Modbus TCP/IP Client devices with a Modbus RTU/ASCII Master.



- 1) Under the Mode you would like to configure, select if the Modbus slave or master device is RTU or ASCII from the dropdown.
- 2) Press the **Select** button to continue with the setup.



Committing Changes to the Settings

- Changes made to the settings of the router will not take effect until the router is restarted.
- Changes will not be stored if the router's power is removed prior to rebooting.
- The router detects changes and will prompt you with a red notice box to reboot the router after change.



- NOTE: The router does not need to be restarted after every change. Multiple changes can be made before a restart, but they will not be committed until the router is rebooted.
- The webpage will redirect to our rebooting page shown below.



• After the router has restarted, which can take up to 15 seconds, the router will automatically redirect to the diagnostics page. You will know the save was successful if the red box is no longer present.

If you don't understand the load screen reference you need to add Stanley Kubrick's 2001: Space Odyssey to your must watch list. We recommend finding a Betamax version.



Network and Hardware Configuration

The Network and Hardware Configuration area is where you assign a description, change the IP Settings and serial port settings.

Wired Network Configuration

- 1) From the navigation menu, select **Network and Hardware** under Configuration.
- 2) Enter in a User Description to help identify the router.
- 3) Enter IP Address, Subnet, Default Gateway, and DNS information.

NOTE: Changes can only be made on the webpage to the IP Address, Subnet, Default Gateway, and DNS Gateway when the IP Settings parameter is set to "Use the Following IP Address".

Wired Network		
User Description:	Location / Description	
IP Settings:	Obtain an IP Address	Automatically 🔻
IP Address:	10.1.28.95	
Subnet:	255.255.0.0	
Default Gateway:	0.0.0	
DNS Gateway:	0.0.0	
Etherlink:	Auto-Negotiate	 100 Mbps, Full Duplex
MAC Address:	00:03:F4:0A:43:CC	

4) Once you are done configuring the Description and the Network Settings, click the **Save Parameters** button.

If you are changing the IP Address of the router, the change will not take effect until the unit has been rebooted. After reboot, you must enter the new IP Address into your browser to access the configuration screens.

It is recommended to leave the DNS Gateway set to 0.0.0.0 and the Ethernet Link as Auto-Negotiate.



Hardware Configuration

The Hardware Configuration page is where you set port specific parameters. These settings must match the settings of the device(s) that you are connecting to.

Hardware		
Mode: Baud Rate: Parity: Data Bits: Stop Bits:	RS485 (2-wire; Half Duplex) 19200 None 8 1	T
Power	GND B+ A-	LED 1: Modbus TCP/IP LED 2: Modbus RTU

When you have completed your port configuration, click the **Save Parameters** button.





Operation Mode:

Modbus TCP/IP Client to/from Modbus RTU/ASCII Slave(s)



Modbus TCP/IP Client to/from Modbus RTU/ASCII Slave(s)

In this mode of operation up to 5 Modbus TCP/IP Clients may send/receive messages from up to 255 Modbus RTU Slave device(s).

The Modbus TCP/IP Client requests are transparently passed to Modbus RTU slaves. The Unit ID field on Modbus TCP/IP is used as the Modbus RTU Slave ID field when transmitted on the serial network.

- No other message fields are modified.
- If a TCP/IP Client tries to access a Slave device that is not connected then the router will provide timeouts.





Modbus Configuration

1) From the navigation menu, select **Modbus** under Configuration.

CONFIGURATION	Modbus			
Network and Hardware Modbus	RTU Master	400 00000	TCP/IP Server	
- modbac	Response Timeout:	500 100 - 60000 m	s ICP/IP Port:	502 1 - 65535
DIAGNOSTICS			inactivity Timeout.	5 1 - 3000 S
Diagnostics			TCP/IP Connections:	
OTHER			Modbus Client IP Address:	Unrestricted T
Export / Import Config			Client 1:	XXX.XXX.XXX
Utilities			Client 2:	XXX.XXX.XXX
			Client 3:	XXX.XXX.XXX
			Client 4:	XXX.XXX.XXX
			Client 5:	XXX.XXX.XXX.XXX
			Save Parameters	

RTU Master

2) Response Timeout: Enter in the amount of time the router will wait for the response from the Modbus RTU/ASCII Slave(s) before declaring a message has timed out.

TCP/IP Server

- 3) TCP/IP Port: Enter in the port that our TCP/IP Server will have so that the TCP/IP Client can communicate. Port 80 is not allowed.
- 4) Inactivity Timeout: Enter in the amount of time the router will wait for communication from the Modbus TCP/IP Client device before it closes the connection.
- 5) Modbus Client IP Address: Select from the dropdown how restrictive our TCP/IP Server should be about incoming Modbus TCP/IP Client connections:
 - a. Unrestricted Allows any Modbus TCP/IP Client to make a connection to our TCP/IP Server in the router.
 - b. Restricted Allows only the Modbus TCP/IP Clients at the specified IP Addresses to make a connection to our TCP/IP Server in the router.
- 6) When finished, press the **Save Parameters** button to save the changes made on this page. If settings have changed, you will be prompted to reboot the router for the changes to take effect.



Diagnostics

From the navigation menu, select **Diagnostics** under Diagnostics.

Pressing the **Clear** button will clear out the all counts.

CONFIGURATION Network and Hardware Modbus	Diagnostics Clear					
DIAGNOSTICS	Device Name	Current State	Requests	Responses	Errors	Timeouts
Diagnostics	1	OK	76	75	0	0
THER	2	OK	75	75	0	0
Export / Import Config	Overall Total	OK	151	150	0	0
Utilities	Current # TCP Connection RTU Error (S	is Open: 1 lave ID): 0	R	RTU Err TU Error (Late R	ror (CRC): 0 esponse): 0	

This table is organized the following way:

- Device Name Modbus RTU/ASCII Slave ID that the router is communicating with.
- Current State Displays the current state of each row. There are 3 states:
 - OK: Requests being sent out are getting valid responses.
 - Error: The last request sent out got an error response from the Modbus RTU/ASCII side.
 - Timeout: The last request sent out did not get a response within the timeout period specified.
- Requests Number of Modbus Requests sent to slave device.
- Responses Number of Modbus Responses sent from slave device.
- Errors Number of Error Messages sent from slave device.
- Simeouts Number of Timeout Messages from slave device.
- Overall Total row This row displays the total of all the values in that column.

Current # TCP Connections Open – This displays the number of Modbus TCP/IP Client connections to the router.

RTU Error (Slave ID), RTU Error (CRC), RTU Error (Late Response) – These are errors that may occur when the Modbus RTU/ASCII network has problems. These values should be 0 in a functional system.



LED Behavior

	LED 1 : Modbus TCP/IP
Blink Green	 No current TCP Connections a) Have never had any TCP Connections b) Had TCP Connections but all of them have timed out and are now closed
Solid	At least 1 TCP Connection is made and is
Off	Ethernet cable is unplugged
_	

	LED 2 : Modbus RTU/ASCII
Blink Green	No RTU/ASCII Connection has ever been made
Solid Green	All RTU/ASCII Connections are valid and are communicating to the router within the Inactivity Timeout configured
Blink Red	Inactivity Timeout has been reached for one or more Slaves. Will remain in this state until a valid message is received for the Slave ID that is currently in a Timeout state.







Operation Mode:

Modbus TCP/IP Servers to/from Modbus RTU/ASCII Master



Modbus TCP/IP Server(s) to/from RTU/ASCII Master

In this mode of operation a Modbus RTU/ASCII Master can connect up to 255 Modbus TCP/IP Server devices. The Modbus RTU message sent to a Slave ID is converted to a Modbus TCP/IP message and mapped to a corresponding Modbus TCP/IP address, Port and Unit ID.

- No other message fields are modified.
- Modbus Slave ID's can be mapped to any Modbus TCP/IP Unit ID and IP Address.
- Multiple Modbus TCP/IP Unit ID's can share a single IP address.





Modbus Configuration

1) From the navigation menu, select **Modbus** under Configuration.

CONFIGURATION Network and Hardware Modbus	Modbus TCP/IP Client Response Timeout: 500	100 - 60000 ms	RTU Slave Inactivity Timeout: 5	1 - 3600 s
DIAGNOSTICS				
Diagnostics				
OTHER	Map your RTU Slave IDs to	TCP/IP Addresses		
Export / Import Config Utilities		Number of Devices:	1 Generate 1 - 255	
	RTU Slave ID	TCP/IP Address	TCP/IP Port	TCP/IP Unit ID
	1	XXX XXX XXX XXX	502	0
		Save P	arameters	

TCP/IP Client

 Response Timeout: Enter in the amount of time the router will wait for the response from the Modbus TCP/IP Server(s) before calling the message a timeout and closing the connection.

RTU Slave

- 3) Inactivity Timeout: Enter in the amount of time the router will wait for communication from the Modbus RTU Master device before it raises an alarm.
 - a. Modbus RTU LED will turn red

Map your RTU Slave IDs to TCP/IP Addresses

- 4) Number of Devices: Number of mappings.
- 5) RTU Slave ID: Slave ID on Modbus RTU. This field must be unique.
- 6) TCP/IP Address: Enter in the Ethernet TCP/IP address of the Modbus TCP/IP Server.
- 7) TCP/IP Port: Enter which port number will be used. Port 80 is not allowed.
- 8) TCP/IP Unit ID: Enter the Unit ID for the Modbus TCP/IP Server.
- 9) When finished, press the Save Parameters button to save the changes made on this page. If settings have changed, you will be prompted to reboot the router for the changes to take effect.



Diagnostics

From the navigation menu, select **Diagnostics** under Diagnostics. This page will automatically refresh every second with the latest values.

Pressing the **Clear** button will clear out the entire table and any total counts.

CONFIGURATION	Diagnostics					
Network and Hardware Modbus	Clear					
	Device Name	Current State	Requests	Responses	Errors	Timeouts
Diagnostics	10.1.54.40:502:1	OK	1535	1535	0	0
THER	10.1.54.41:502:5	OK	1535	1535	0	0
Export / Import Config	10.1.54.40:502:1	OK	1535	1535	0	0
Utilities	Overall Total	OK	4605	4605	0	0

This table is organized the following way:

- Device Name Displays name as "TCP/IP Address: TCP/IP Port: TCP/IP Unit ID"
- Current State The current state of that row.
 - OK: Each request being sent out is getting a valid response.
 - Error: Error received from the Modbus TCP/IP device.
 - Timeout: No response from the Modbus TCP/IP within the Timeout period.
- Requests Number of requests to Modbus TCP/IP Server.
- Responses Number of responses sent from the Modbus TCP/IP Server.
- Errors Number of Modbus error message Responses per Modbus TCP/IP Server.
- Server Timeouts Number of timeout errors per Modbus Server
- Overall Total row This row displays the total of all the values in that column.

Current # TCP Connections Open – This displays the current number of TCP Client connections to the router. The router can support up to 5 at one time.



LED Behavior

	LED 1 : Modbus TCP/IP
Blink Green	No current TCP Connections
Solid Green	At least 1 TCP Connection is made and is communicating to the router
Blink Red	Attempted to open a TCP Connection but failed
Off	Ethernet cable is unplugged

	LED 2 : Modbus RTU/ASCII
Blink Green	No RTU/ASCII Connection has ever been made
Solid Green	RTU/ASCII Connection is valid and is communicating to the router within the Inactivity Timeout configured
Blink Red	RTU/ASCII Request has been received by the router, but the TCP/IP Server device is not present







Operation Mode:

Modbus TCP/IP Client to/from Modbus RTU/ASCII Master



Modbus TCP/IP Client to/from RTU/ASCII Master

In this mode of operation, the TCP/IP Client device and RTU/ASCII Master device essentially share the same data values. Up to 5 Modbus TCP/IP Clients can talk with the router at a given time. In this mode, the data table for the Input Coils and Coil Status are overlapping, just like the data table for the Input Registers and Holding Registers. This means that a read request (Function Code 0x02) of Input Status 10 will return the same value as a read request (Function Code 0x01) of Coil Status 10 would return.





Modbus Configuration

1) From the navigation menu, select **Modbus** under Configuration.

Modbus						
TCP/IP Server			RTU Slave			
TCP/IP Port:	502	1 - 65535		Slave ID:	1	1 - 255
Inactivity Timeout:	5	1 - 3600 s	Inactivity	Timeout:	5	<mark>1</mark> - 3600 s
			Save Parameters	1		

TCP/IP Server

- 2) TCP/IP Port: Enter in the port that our TCP/IP Server will have so that the TCP/IP Client can communicate. Port 80 is not allowed.
- 3) Inactivity Timeout: Enter in the amount of time the router will wait for communication from the Modbus TCP/IP Client device before it closes the connection.

RTU Slave

- 4) Slave ID: Enter in the slave ID that our Modbus RTU/ASCII Slave should have so that the Modbus RTU/ASCII Master can communicate to the router.
 NOTE: This value should be unique among all slave devices on the network.
- 5) Inactivity Timeout: Enter in the amount of time the router will wait for communication from the Modbus RTU Master device before it closes the connection.
- 6) When finished, press the Save Parameters button to save the changes made on this page. If settings have changed, you will be prompted to reboot the router for the changes to take effect.



Diagnostics

From the navigation menu, select **Diagnostics** under Diagnostics. This page will automatically refresh every second with the latest values.

Pressing the **Clear** button will clear out the entire table and any total counts.

CONFIGURATION Network and Hardware Modbus	Clear				
DIAGNOSTICS Diagnostics	Function Code	TCP Requests	TCP Responses	RTU Requests	RTU Responses
OTHER	FC01: Rd Coil Status	461	461	389	389
Export / Import Config	FC03: Rd Holding Reg	333	333	389	389
Utilities	FC05: Wr Single Coil Status	3	3	1	1
	FC16: Wr Mult Holding Reg	1	1	1	1
	FC06: Wr Single Holding Reg	0	0	1	1
	FC15: Wr Mult Coil Status	1	1	1	1
	Overall Total	799	799	782	782

This table is organized the following way:

- Function Code Shows the Function Codes received from either the TCP/IP Client side or the RTU/ASCII Master side. A description of the Function Code is displayed after the ":" in the column.
- TCP Requests/TCP Responses Number of TCP Requests or Responses. The number of requests should equal the number of responses.
- RTU Requests/RTU Responses Number of RTU/ASCII Requests or Responses. The number of requests should equal the number of responses.
- Overall Total row This row displays the total of all the values in that column.

Current # TCP Connections Open – This displays the current number of TCP Client connections to the router. The router can support up to 5 at one time.



LED Behavior

	LED 1 : Modbus TCP/IP
Blink Green	No current TCP Connectionsc) Have never had any TCP Connectionsd) Had TCP Connections but all of them have timed out and are now closed
Solid Green	At least 1 TCP Connection is made and is communicating to the router
Off	Ethernet cable is unplugged

	LED 2 : Modbus RTU/ASCII
Blink Green	No RTU/ASCII Connection has ever been made
Solid Green	RTU/ASCII Connection is valid and is communicating to the router within the Inactivity Timeout configured
Blink Red	Inactivity Timeout has been reached. Will remain in this state until a message is received





Export/Import Configuration

To access these the export or import configuration features in the router, click the **Export/Import Config** button under the OTHER navigation pane.

Export Configuration	
	Save Configuration to PC
Import Configuration	
	Choose File No file chosen
	Load Configuration

Export Configuration

- 1) Click the Save Configuration to PC button.
- 2) A prompt will then ask the type of file to save as. Any type will suffice.
 - This will save all of the configuration except for the router's IP Network Settings, since this must be unique.
- 3) Save this file to the PC.

Import Configuration

- 1) Click **Choose File** and search for the configuration to load to the BFR3000.
- 2) Click **Load Configuration**. If successful, you will be redirected to the main page and be forced to reboot the router. If the load failed, you will be prompted with an error.



Utilities

The Utilities screen offers additional features and functionality in the router including Operation Mode, Logging, Security, Update Firmware Capability, and Restart Options.

Here you can also:

- Change which Operation Mode you are running.
- Configure logging settings for diagnostic purposes.
- Configure security settings.
- Upgrade the firmware right from the webpage.
- Various options to reset the router.

Operation Mode

To change which Operation Mode currently configured in the router, click on the Utilities button under the OTHER navigation menu and then Operation Mode button. Clicking this button will redirect to the Operation Mode Selection page. From there, select which mode to run.

Logging

Most users will not need to do anything with these feature. If there are problems with the router, a RTA Technical Support Specialist will direct you in how to use this feature.



Security Configuration

To configure security for a single username and password, click the **Utilities** button under the OTHER navigation pane and then click the **Security** button.

- 1) Log Out Timer: The system will automatically log inactive users off after this period of time.
- 2) Username: Enter a username, max of 30 characters, case sensitive.
- 3) Password: Enter a password for the username, max of 30 characters, case sensitive.
- 4) Hint: A helpful reminder of what the password is.
- 5) Admin Information: Enter in contact information in case username/password is forgotten.
- 6) Click the **Save Parameters** button to save.

	160	
Log Out Timer:	5	1-60 min
Username		
Password		
T dosword.		
Hint		
Admin Information:		
Admin Information:		
		Save Parameters



Security – Log In

- 1) Username: Name of the user to login.
- 2) Password: Password of the user to login.
- 3) Log In: If login is successful, the user will be redirected to the Diagnostics Page.
- 4) Display Hint: Displays the hint specified for the user if one was set up.
- 5) Reset Password: This is used to reset security settings. Confirm reset password must be selected to confirm this action. Once confirmed, there is a 15 minute window to do a hard reset of the router by physically removing and restoring power from the router. Once power is restored, you may navigate to the IP address of the router as normal.

The second se	
Password	
Log In	



Reset Router

There are 3 options to reset the router.

Restart the Router – Saves the current settings of the router and performs a software reboot.

Reset to Last Powerup – Brings the device back to its last power up settings.

Reset to Shipped Defaults – Brings the device back to its original manufacturing defaults, including setting the router to DHCP mode.

Once the option is selected, click the **Reset** button to execute.



Completing the Installation

You have now set up your router for communication and are ready to place the device in your application.

If at any time you need further assistance do not hesitate to call Real Time Automation support.

Support Hours are Monday-Friday 8am-5pm CST

Toll free: 800-249-1612 Email: support@rtaautomation.com