

Sleeve-Mount Repeaters

Types of Sleeve-Mount

Sleeve-mount repeater installation depends on the type of meter socket.

Meter Socket Type	Description
Ringless	A ringless mounted meter installs under the meter box lid, which is hinged at the top of the box.
Ringed	A rimmed meter box

Required Tools

The following tools are necessary for sleeve-mount repeater installation:

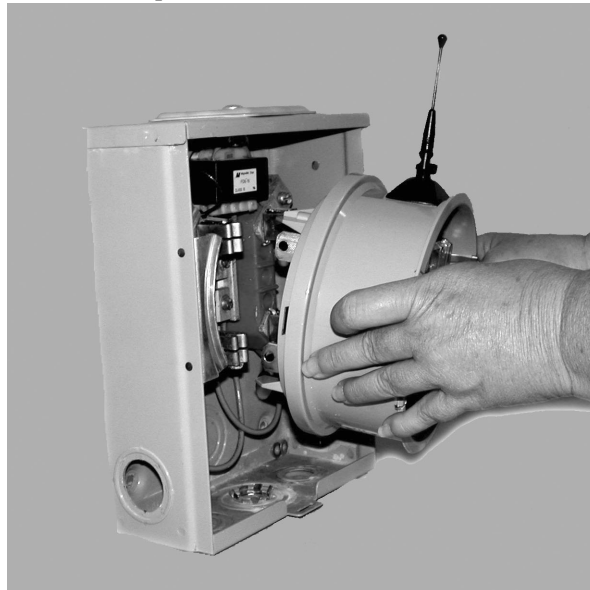
- Tamper seals and associated meter installation/removal tools
- Panduit Wave-Ty installation tool (optional). This tool cuts excess cable and applies tension to the tension band.

Installing on a Ringless Meter Socket

A ringless meter socket does not use a meter seal ring between the meter and the meter socket. Instead, the meter is secured in the meter socket by a lid. To install a repeater on a ringless meter socket, do the following steps.

IMPORTANT The following instructions should be considered supplemental to the meter installation and removal procedures for your utility. Follow all applicable procedures and regulations when performing meter installation.

Step	Action
1	Remove tamper seals.
2	Verify that the service is compatible with the repeater.
3	Remove the meter socket lid.
4	Pull the meter from the socket.
5	Insert the repeater into the socket.



Step Action

- 6 Replace the meter socket lid.

NOTE If needed, trim the breakaway rim on the repeater sleeve using diagonal so that the socket lid will fit over the repeater.

- 7 Place the antenna cover over the antenna on the top of the repeater sleeve.



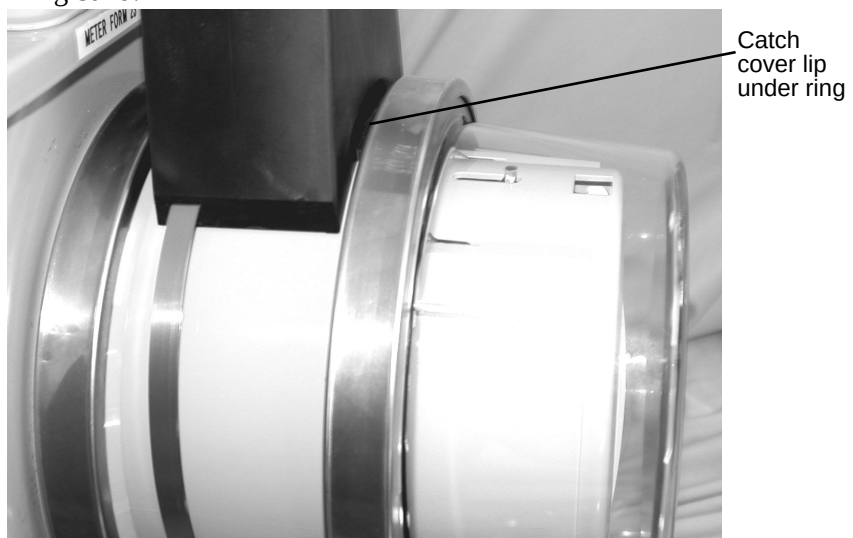
- 8 Secure the band around the repeater, pulling to tighten.

- 9 Tighten the tension band using a tension setting tool.

- 10 Clip off the extra band material.

- 11 Snap the meter into the repeater socket.

- 12 Attach the ring making sure to catch the antenna cover lip under the ring band.



- 13 Install a tamper seal in the ring band and on the meter socket lid.

Installing on a Ringed Meter Socket

A ringed meter socket uses a meter sealing ring to secure the meter to the socket. To install a repeater on a ringed meter socket, do the following steps.

Step	Action
1	Remove tamper seals.
2	Verify that the service is compatible with the repeater.
3	Remove the meter seal ring.
4	Pull the meter from the socket.
5	Insert the repeater sleeve into the meter socket.
6	Secure a meter seal ring between the repeater and the meter socket.



Step	Action
------	--------

- | | |
|---|--|
| 7 | Place the antenna cover over the antenna on the top of the repeater. |
|---|--|



- | | |
|---|--|
| 8 | Secure the antenna cover band around the repeater, pulling to tighten. |
|---|--|

- | | |
|---|--|
| 9 | Tighten the tension band using a tension setting tool. |
|---|--|

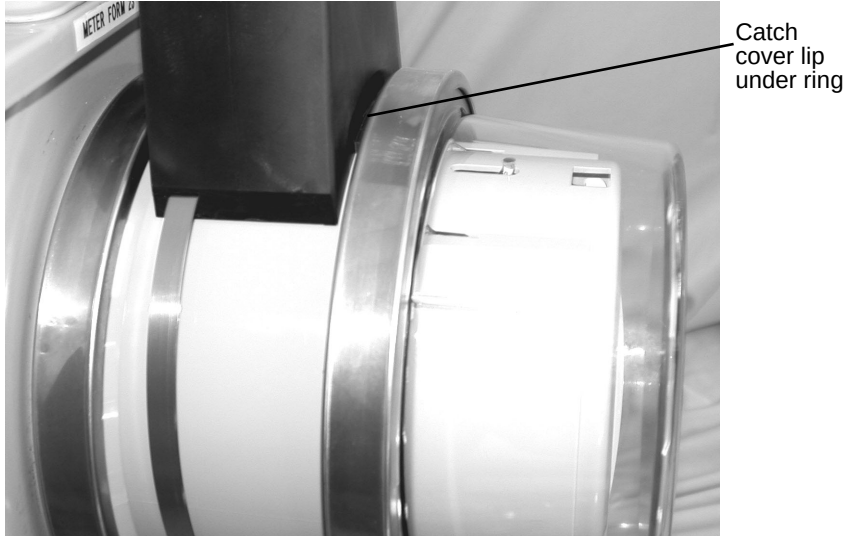


- | | |
|----|-----------------------------------|
| 10 | Clip off the extra band material. |
|----|-----------------------------------|

- | | |
|----|--|
| 11 | Insert the meter into the repeater socket. |
|----|--|

Step Action

- 12** Attach the meter seal ring making sure to catch the antenna cover lip under the ring band.



- 13** Replace the tamper seals.

Chapter 3

Repeater Configuration

Getting Started

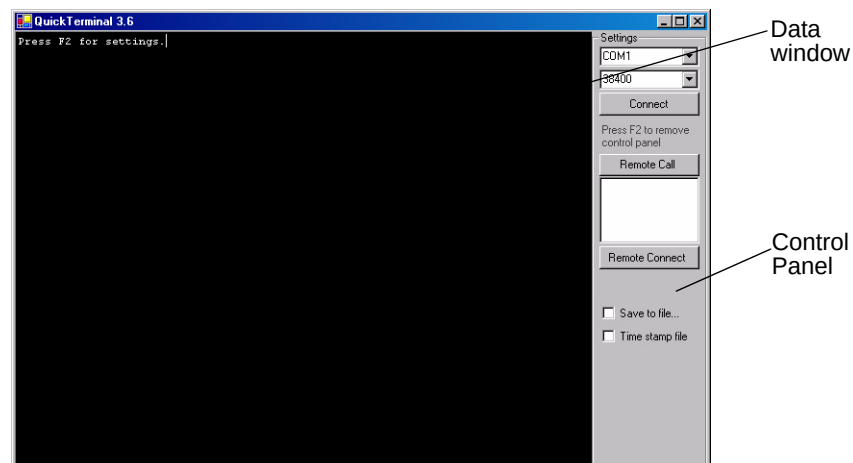
Overview

Repeater configuration and troubleshooting is performed in the field using two components:

- **Repeater Programmer** communicates with repeaters and endpoints. You can use the programmer in the field to troubleshoot repeater problems and optimize network performance. The programmer is connected to your computer using a serial cable and powered by a 5 volt power cord.
- **Itron QuickTerminal** is a terminal emulation application, similar to HyperTerminal or ProComm.

Navigating in QuickTerminal

QuickTerminal displays three windows: the Data window, the Control Panel, and the Remote Unit Connection window. The Remote Unit Connection window appears following a successful connection with a repeater.



Installing QuickTerminal

Overview

QuickTerminal may be installed directly on your machine or run directly from the CD. Note that running QuickTerminal from the CD will result in some performance and speed loss.

Requirements

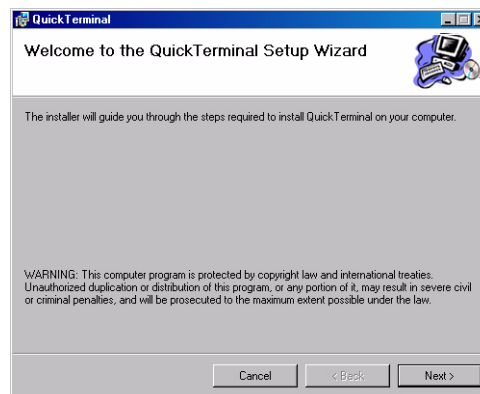
The following software and hardware requirements must be met to run QuickTerminal.

Requirement	Description
Microsoft Windows	Windows XP, 2000, 98, ME, or NT Service Pack 6a
Microsoft .NET Framework	Version 1.1. Available as part of Windows XP and 2000, or available from Microsoft. http://windowsupdate.microsoft.com
Serial Port	Available serial port capable of communicating at 38400 baud rate
Serial Port Adapter	Optional If your computer does not have a serial port, you may need to use a USB serial port adapter.
Power Adapter	Optional A power adapter for the 5 volt power cord is required to operate the programmer in a vehicle.

Installing QuickTerminal

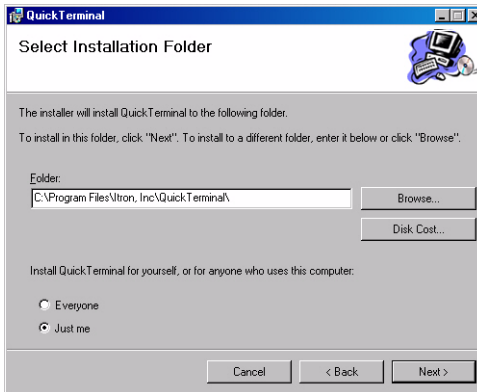
Itron recommends installing QuickTerminal directly on your configuration machine. To install QuickTerminal, do the following steps.

Step	Action
1	Insert the QuickTerminal CD.
2	Navigate to the Install folder and double-click <code>setup.exe</code> . The QuickTerminal setup wizard launches.

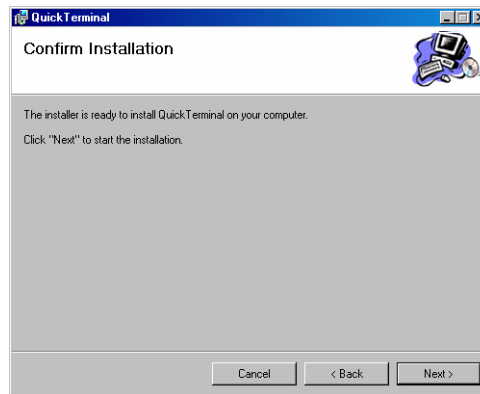


Step	Action
------	--------

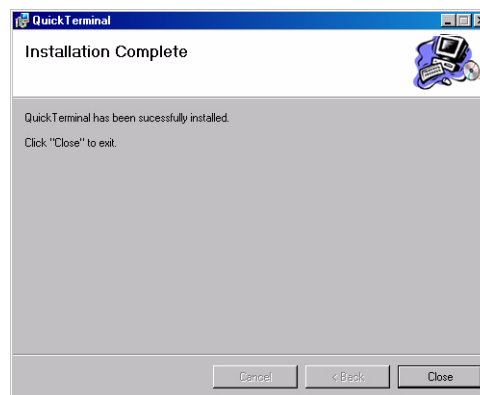
- | | |
|---|--|
| 3 | Click Next to accept the default installation path or browse for an alternate path. |
|---|--|



- | | |
|---|--|
| 4 | Click Next to confirm installation. QuickTerminal installs. |
|---|--|



- | | |
|---|----------------------|
| 5 | Click Close . |
|---|----------------------|



The QuickTerminal icon will appear on your desktop and in the Start menu.

Running QuickTerminal from CD

To run QuickTerminal directly from the CD, do this.

- Insert the QuickTerminal CD.
- Navigate to the Run folder and double-click `QuickTerminal.exe`.

Launching QuickTerminal

To launch the QuickTerminal application, do this.

- Double-click the QuickTerminal icon on your desktop or select **Start > QuickTerminal**.

Communicating with a Repeater

Setting Communication Options

You may need to adjust the COM port or baud rate settings for communicating with the repeater. To set communication options, do the following steps.

Step	Action
1	Connect the programmer to your computer using the serial cable.
2	Launch QuickTerminal.
3	Press F2 . NOTE To view or minimize the Control Panel, press F2 . To enter command mode, press ESC three times.
4	From Settings, select a COM port. The default is COM port 1.
5	Select a baud rate setting. The default baud rate is 38400.
6	Click Connect . • If the COM port is available, the message COM1 opened OK appears. As the programmer begins to read ERT endpoints and repeaters, data will appear. • If the COM port is available but the repeater is not connected, the port will open but no data will appear. • If the COM port is not available or not present on the machine, an error message appears. NOTE Data may not immediately display if the programmer is not able to read nearby endpoints or repeaters. If no data displays, check that the repeater is connected by removing and re-inserting the power cord into the repeaters. A status message should appear.

Connecting to a Remote Repeater

An All Call (ACALL) command causes all of the repeaters in communication distance to move to a single frequency. You must perform a remote call prior to communicating with a repeater. To connect to a remote repeater, do the following steps.

Step	Action
1	From the Control Panel, click Remote Call . The remote call processes and available repeaters display.
2	In the data window, enter the password.
3	Press Enter to accept the command channel frequency. NOTE If your utility has opted to use a frequency other than the standard frequency of 9100, enter your frequency.