## **Downloading Data**

Standard Download

To download data you have collected offline:

1. Make sure that the XRF Analyzer is connected to your computer. See <u>"Connecting the</u> <u>XRF Analyzer to Your PC"</u> for more information.

2. Turn on the XRF Analyzer. See the manual for the XRF Analyzer for more information.

Note - Wait at least 30 seconds after turning on the XRF Analyzer to begin downloading files. The System Start screens do not allow downloading.

- 3. Start Niton Data Transfer. See <u>"Starting Niton Data Transfer"</u> for more information.
- 4. Click the Download button. The Download dialog box will open.



Figure 1-1. The Download Button

5. In the Download dialog box, Select the Test button to test the serial connection to the Analyzer.

Test	Reading Types	Reading No	Reading Type	Group	Reading Time
Query Readings		Test	Button		
Destination Folde					
File Name					
	ownload to MS Excel				
Simultaneous E					
Simultaneous E	0/100			Connect	ion Status

Figure 1-2. The Test Button

6. You should get a pop-up window informing you that the connection tested successfully. If the test fails, there is a problem with your serial port setup.

NITON Da	ita Transfer 🛛 🕺
(j)	Hardware successfully communicating
	СК

Figure 1-3. Connection Success Window

7. In the Download dialog box, click the Connect button.

Test	Reading Types	Reading No	Reading Type	Group	Reading Time
Query Readings -		Quer	y Readings	Button	
Destination Folde C:\Manuals\New File Name	-Manuals\NDT	Con	nect Button		
T Simultaneous I	Download to MS Excel				

Figure 1-4. The Connect Button

8. Click the Query Readings button. This will return a list of all current readings on your analyzer. The list appears in the large white box in the Download dialog box.

Reading Types	Reading No	Reading Type	Group	Reading Time
Test General Metals		General Metals	Reading	2010-04-30 11:19
System Check	🗖 🗐 2	System Check	Reading	2010-05-06 13:58
iery Readings	🗖 🗐 3	General Metals	Reading	2010-05-06 13:5
	4	General Metals	Reading	2010-05-06 13:5
Download	🗖 🗐 5	General Metals	Reading	2010-05-06 13:5
	🗖 🗐 6	General Metals	Reading	2010-05-06 14:0
	0 7	General Metals	Reading	2010-05-06 14:0
		General Metals	Reading	2010-05-06 14:0
X	9	General Metals	Reading	2010-05-06 14:0
	10	General Metals	Reading	2010-05-06 14:1
/	11	General Metals	Reading	2010-05-06 14:10
ilable Checkboxes	12	General Metals	Reading	2010-05-06 14:13
	13	General Metals	Reading	2010-05-06 14:1
Destination Folder	14	General Metals	Reading	2010-05-06 14:1
C:\Manuals\New-Manuals\NDT	□ 🛛 15 🗸	General Metals	Reading	2010-05-06 14:1
ïle Name	16	General Metals	Reading	2010-05-06 14:1
(L2-49885		General Metals	Reading	2010-05-06 14:1
	<b>□ 2</b> 18	General Metals	Reading	2010-05-06 14:1
Simultaneous Download to MS Excel	19	General Metals	Reading	2010-05-06 14:1
	1 =	Canadal Makala	Deedine.	2010/05/00 14-10

Figure 1-5. Current Reading List

9. Select the readings that you want to download. There are two ways to do this.

a. Click the boxes next to each of the reading numbers to select or de-select individual readings. You can select a range of readings by pressing the shift key, then selecting the first and last reading in the range. All readings from the first reading selected to the last will then be selected.



Figure 1-6. Selecting Readings

b. When the readings are downloaded, the available modes are also downloaded. Click the boxes on the left to select or de-select all the readings of a specific available type. You can also use the Shift-Click method of selecting a range of readings as described above.

Reading Types
☑ General Metals
🗖 🤤 ystem Check
Download All General Metals Readings
1

Figure 1-7. Using Check Boxes

10. The download generates a data file containing the selected readings. To save the file for later use:

a. Enter the path for the file in the Destination Folder field. You can use the ... button to browse.

C:\Manuals\NDT Manual	
File Name	
alloy-readings	

## Figure 1-8. The Browse Button

b. Enter a name for the file in the File Name field.

Caution: - Some characters are not allowed in the file name. Characters such as the "#" sign will cause an error. Niton recommends using only alphanumeric characters "-", "\_" and the space character when naming a file.

c. Click the Download button.

	Reading Types	Reading No	Reading Type	Group	Reading Time
Test	General Metals		General Metals	Reading	2010-04-30 11:19
	System Check	2	System Check	Reading	2010-05-06 13:58
Query Readings		🗹 🗐 3	General Metals	Reading	2010-05-06 13:59
			General Metals	Reading	2010-05-06 13:59
Download		D 🛛 5	General Metals	Reading	2010-05-06 13:59
		6	General Metals	Reading	2010-05-06 14:00
/		2 🖾 7	General Metals	Reading	2010-05-06 14:00
ect Download		0 8	General Metals	Reading	2010-05-06 14:07
ect Download		9	General Metals	Reading	2010-05-06 14:08
		10	General Metals	Reading	2010-05-06 14:10
	1	11	General Metals	Reading	2010-05-06 14:10
		2 🗐 12	General Metals	Reading	2010-05-06 14:13
1 A AR 198		13	General Metals	Reading	2010-05-06 14:13
Destination Folder		14	General Metals	Reading	2010-05-06 14:14
C:\Program Files\Th	ermo NITON\	15	General Metals	Reading	2010-05-06 14:14
File Name		16	General Metals	Reading	2010-05-06 14:14
XL2-49885		17	General Metals	Reading	2010-05-06 14:15
J		18	General Metals	Reading	2010-05-06 14:15
🔲 Simultaneous Dov	vnload to MS Excel	19	General Metals	Reading	2010-05-06 14:15
Query n	sadings complete, please sele	ct readings for downlo	ad	Connectio	on Status

Figure 1-9. The Download Button

When the progress bar shows that all the readings are downloaded, click the Done button.

Test	General Metals	100 m 120 m 120 m 120 m	Reading Type	Group	Reading Time
		1	General Metals	Reading	2010-04-30 11:1:
	System Check	🗖 🗐 2	System Check	Reading	2010-05-06 13:5
uery Readings		🗹 🗐 3	General Metals	Reading	2010-05-06 13:5
		I I I 4	General Metals	Reading	2010-05-06 13:5
Download		🗹 🖾 5	General Metals	Reading	2010-05-06 13:5
		🗹 🖾 6	General Metals	Reading	2010-05-06 14:0
		2 🖾 7	General Metals	Reading	2010-05-06 14:0
		<b>I I</b> 8	General Metals	Reading	2010-05-06 14:0
		9	General Metals	Reading	2010-05-06 14:0
		10	General Metals	Reading	2010-05-06 14:1
		11	General Metals	Reading	2010-05-06 14:1
		2 🗐 12	General Metals	Reading	2010-05-06 14:1
1 01 001 2019.		13	General Metals	Reading	2010-05-06 14:1
Destination Folder		14	General Metals	Reading	2010-05-06 14:1
C:\Manuals\New-	Manuals\NDT	15	General Metals	Reading	2010-05-06 14:1
File Name		16	General Metals	Reading	2010-05-06 14:1
<l2-49885< td=""><td></td><td>17</td><td>General Metals</td><td>Reading</td><td>2010-05-06 14:1</td></l2-49885<>		17	General Metals	Reading	2010-05-06 14:1
		18	General Metals	Reading	2010-05-06 14:1
Simultaneous Download to MS Excel		19	General Metals	Reading	2010-05-06 14:1
		<b>E</b> 2 20	Conservable destate	Deedine	2010 05 00 14.1

Figure 1-10. The Progress Bar

You should now see the readings you selected for download displayed, one reading per horizontal line. The data has been saved to the folder and filename you indicated prior to downloading. If an error message has appeared, see the following section. See <u>"Creating and Using Reports"</u> to continue otherwise.

You can also automatically save reports in .csv format for importing into Excel or other programs. <u>See "Simultaneous Save as CSV File".</u>

Error Messages while Downloading

Error Message	Action
Couldn't open \\.\COM7 Error Code: 2	Select another COM port.
The port \\.\COM2 is in use	Select another COM port.
Please Open the Port	Click the Connect button.
Hardware Not Responding	Turn on the XRF Analyzer.
or	
Hardware Not Ready	If you are using a serial cable, check that the cable is inserted snugly.
	If you are using a serial cable, select the other COM port.
	If you are using the wireless USB adapter, connect the serial port. See the "Installing and Using Bluetooth" manual for complete instructions on setting up the Bluetooth adapter to work with your analyzer.
	Check that the spare battery is fully charged.
The Serial Port connection failed: RFCOMM connection failed	Check that the battery is fully charged.
WARNING: 38400 baud rate not supported.	This indicates a potential problem. Test the serial port. If there is a problem connecting, switch baud rate on both the analyzer and the NDT software to 115200.
Incorrect Data in reading # XXX. Reading will be skipped.	This indicates a version mismatch between your instrument code and the NDT code running on your computer. Use a version of NDT that matches the ver묒sion number of the software on your analyzer.

Incorrect Data in reading # XXX.	This indicates a version mismatch between your instrument code and the NDT code running on your
Reading will be skipped.	computer. Use a version of NDT that matches the ver날sion number of the software on your analyzer.
Error code:	,
BOUNDARY_ERROR2.	
Incorrect Data in reading # XXX.	This indicates a version mismatch between your instrument code and the NDT code running on your
Reading will be skipped.	computer. Use a version of NDT that matches the ver돵sion number of the software on your analyzer.
Error code:	
BOUNDARY_ERROR3.	
WARNING: 115200 baud rate not supported.	This indicates a potential problem. Test the serial port. If there is a problem connecting, switch baud rate on both the analyzer and the NDT software to 38400.
SH4 Successfully Communicating Result: SUCCESS	This indicates a normal connection.

Note - When using the wireless USB adapter, if the serial port repeatedly disconnects, check that the battery is fully charged.