Communications Card Operation

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NOTICE

Follow these recommendations when using Matlink Communication Software Version 2.5 B:

- 1. Always end each session by highlighting and selecting **File** on the menu bar, then highlighting and selecting **Exit**. Using the "—" in the upper left-hand corner of the window, when operating under Windows® 3.X, or the "X" in the upper right-hand corner of the window, when operating under Windows® 95, Windows® 98, Windows® 2000, Windows NT®, Windows XP®, or Windows® 7, may not terminate the application. You may need to open the Windows Task Manager and select "**Matlink.exe**" to exit the application.
- 2. Set the screen area to at least 800 by 600 pixels. A lesser setting may result in viewing and/or mouse operation difficulties.



• ····	
Qualified Persons	A WARNING
	The equipment covered by this publication must be installed, operated, and main- tained by qualified persons who are knowledgeable in the installation, operation, and maintenance of electric power distribution equipment along with the associ- ated hazards. A qualified person is one who is trained and competent in:
	• The skills and techniques necessary to distinguish exposed live parts from non- live parts of electrical equipment.
	• The skills and techniques necessary to determine the proper approach distances corresponding to the voltages to which the qualified person will be exposed.
	• The proper use of the special precautionary techniques, personal protective equipment, insulating and shielding materials, and insulated tools for working on or near exposed energized parts of electrical equipment.
	These instructions are intended only for such qualified persons. They are <i>not</i> intended to be a substitute for adequate training and experience in safety procedures for this type of equipment.
Read this Instruction Sheet	Thoroughly and carefully read this instruction sheet before operating your Micro-AT Source-Transfer Control. Familiarize yourself with "Safety Information" on page 5. The latest version is available online in PDF format at www.sandc.com . > Support > Product Literature.
Retain this Instruction Sheet	This instruction sheet is a permanent part of your Micro-AT Source-Transfer Control. Designate a location where you can easily retrieve and refer to this publication.
Proper Application	
Proper Application	CAUTION The equipment in this publication must be selected for a specific application. The application must be within the ratings furnished for the equipment.
Proper Application Warranty	The equipment in this publication must be selected for a specific application. The

General

This publication provides instructions for use of the optional communications card feature for the Micro-AT Source-Transfer Control (Catalog Number Suffix "-Y8"). See Figure 1. This feature permits local uploading of the Micro-AT control's "events," operating characteristics and operating parameters, digital input and output states, and messages explaining why the automatic-transfer "ready" indicating lamp isn't lighted. This feature also allows local downloading of the user's standard operating parameters to the Micro-AT control.

To use the communications card feature, you'll need the following:

- An IBM PC AT or compatible computer using Intel's 80386 microprocessor, or higher. The computer must have a minimum of 2 MB of memory, a CD-ROM drive, and a hard disk drive with at least 2MB of free space. The computer must operate under Microsoft Windows[™], Version 3.X, Windows® 95, Windows® 98, Windows® 2000, Windows® NT, Windows® XP, or Windows® 7-32-Bit.
- To use Windows® 7 64-Bit Operating System, the system version must be Professional or Ultimate. Both include XP Mode, which is required to use the Micro-AT Communications Card. Also note that the XP Mode virtual machine must be configured to use a serial port on the computer (if one exists), or a USB-to-Serial adapter, and the USB-to-Serial driver must be installed on the XP Mode virtual machine.

	Windows	s 7 64-Bit	Windows 7 32-Bit		
	Serial Port USB-to-Serial		Serial Port	USB-to-Serial	
Windows® 7	Does not work	Does not work	Works correctly	Works correctly	
XP Mode	Works correctly	Works correctly			

- A Micro-AT communication cable. This cable is available from S&C in two versions: Catalog Number TA-2320 for personal computers having a 25-pin serial communication port and Catalog Number TA-2321 for personal computers having a 9-pin serial communication port.
- Matlink[™] communication software, is available for download at www.sandc.com> Support> S&C Automation Customer Support Portal. If you need assistance, please contact customerportal@sandc.com or phone (800) 621-5546.

NOTICE Use the following table to determine the version of MATLink compatible with the firmware of your Micro-AT control.									
Matlink Version	Matlink Issue Date								
You must upgrade to at least V2.1.2 to use the communications card.	_								
V2.1	6/15/96								
V2.2	9/14/96								
V2.4	10/10/98								
V2.5	7/14/00								
V2.5A	3/6/01								
V2.5B	9/20/02								
V2.5C	6/3/05								
V2.6	9/1/09								
V2.6	9/1/09								
	determine the version of MATLin 'control. Matlink Version You must upgrade to at least V2.1.2 to use the communications card. V2.1 V2.2 V2.4 V2.4 V2.5 V2.5A V2.5B V2.5C V2.6								

To determine the Micro-AT firmware version, press the "EXAMINE" menu key followed by the "Next Item" key. The version of the Micro-AT firmware will be displayed. For example, in the display below, the Micro-AT Firmware version is 2.1.2.

> EXAMINE: 2.1.2 COPYRIGHT S&C 1990-1995

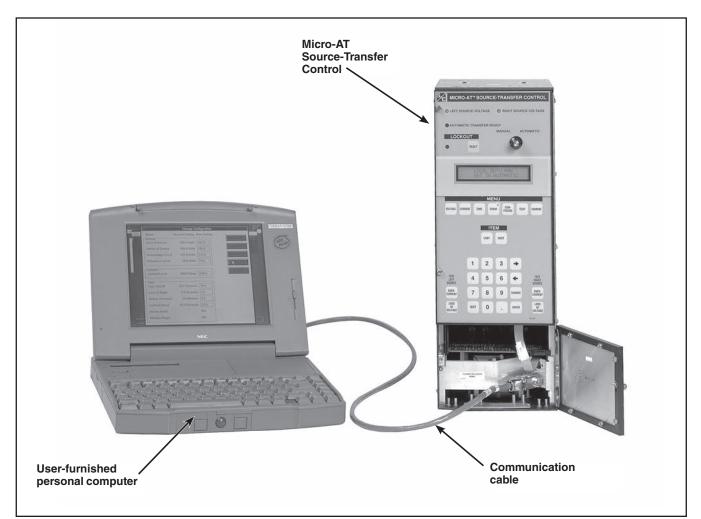


Figure 1. Communications card option for Micro-AT Source-Transfer Controls.

A DANGER

"DANGER" identifies the most serious and immediate hazards which *will likely* result in serious personal injury or death if instructions, including recommended precautions, are not followed.

A WARNING

"WARNING" identifies hazards or unsafe practices which *can* result in serious personal injury or death if instructions, including recommended precautions, are not followed.

A CAUTION

"CAUTION" identifies hazards or unsafe practices which *can* result in minor personal injury or product or property damage if instructions, including recommended precautions, are not followed.

NOTICE

"NOTICE" identifies important procedures or requirements that, if not followed, can result in product or property damage if instructions are not followed.

If you do not understand any portion of this instruction sheet and need assistance, contact your nearest S&C Sales Office or S&C Authorized Distributor. Their telephone numbers are listed on S&C's website **www.sandc.com**. Or call S&C Headquarters at (773) 338-1000; in Canada, call S&C Electric Canada Ltd. at (416) 249-9171.

NOTICE

Thoroughly and carefully read this instruction sheet before operating your Micro-AT Source-Transfer Control.



Replacement Instructions and Labels

Following Safety

Instruction

If you need additional copies of this instruction sheet, contact your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

It is important that any missing, damaged, or faded labels on the equipment be replaced immediately. Replacement labels are available by contacting your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd. Before proceeding, refer to Quick-Start Programming Instruction Sheet 515-530 or Instruction Sheet 515-500 or 515-600 for instructions on field programming and operation of the Micro-AT Source-Transfer Control.

Installing Matlink™ on Your Computer Hard Drive

NOTICE

MatlinkTM communication software, is available for download at **www.sandc.com**> Support> S&C Automation Customer Support Portal. If you need assistance, please contact **customerportal@sandc.com** or phone (800) 621-5546.

Go to the S&C Automation Customer Support Portal, open the Matlink Workspace, and download the appropriate Matlink Software installer to your desktop. Unzip the downloaded folder, and save the folder contents to your desktop. Double click the program **INSTALL.EXE** that you saved on the desktop. This will install Matlink Software on your computer.

To start Matlink, click your Start button and select **All Programs**. Open the Matlink V2.xx folder and double click the Matlink program inside the folder.

Running Matlink

A CAUTION

The steps which follow describe the procedure for running Matlink with a Micro-AT Source-Transfer Control connected to your personal computer. Matlink can also be run—and configurations▲ created—without a Micro-AT control connected to the personal computer. If you wish to create a configuration(s) for later downloading, proceed to "APPENDIX" on page 16.

Step 1

Place the manual/automatic operation selector switch on the Micro-AT Source-Transfer Control in the "MANUAL" position.

Step 2

Decouple each operator from its interrupter switch—changing the Micro-AT configuration might cause a temporary service interruption. Refer to the S&C instruction sheet furnished with the pad-mounted gear, metal-enclosed switchgear, or Vista® Underground Distribution Switchgear or, in weatherproof enclosure applications, the S&C instruction sheet furnished with the switch operators.

Step 3

Loosen the screw which retains the hinged lower panel of the Micro-AT control and swing open the lower panel. See Figure 1 on page 4. (In pad-mounted gear which was originally furnished with a Type AT-12 Source-Transfer Control, loosen the two screws which retain the door assembly of the Micro-AT control and swing open the door assembly.)

Step 4

With your computer off, connect the communication cable between the serial port of the computer and the communication port of the Micro-AT control. A USB-to-Serial adapter is required if your computer does not have a Serial port.

▲ A configuration consists of the settings of the Micro-AT control, which include its operating characteristics and its voltage-, current-, and time-related operating parameters.

Step 5

NOTICE

Help screens have been created and are viewable any time Matlink is running.

Turn on the computer.

Double-click on the **MATLINK** icon. Or open the File Manager and select **MAT-LINK**; then highlight and select **MATLINK.EXE**.

The Matlink application will appear as shown below.

le Commun	ications Windo	w Settings H	lelp				
Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log
	Source	Current	Port	Selected	None	····	
eft	n/a	ព/១	n/a		n/a		00/00/00
Right	n/a	n/a	n/a		n/a		00:00:00

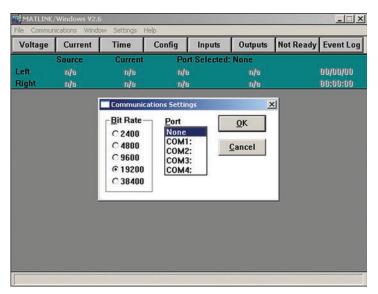
Step 6

To establish the communication link between your computer and the Micro-AT control:

(a) Highlight and select **Communications** on the menu bar. A pop-up menu will appear listing communications options as shown below.

	LINK/Wind			lelp		_		_02
Vc	Settings	rent	Time	Config	Inputs	Outputs	Not Ready	Event Log
	Sou	rce	Current	Port	Selected:	None		
Left	n/	8	n/a	n/a		n/a		00/00/00
Right	n/	ย	n/a	n/a	Ş	n/a		00:00:00
	rt and Bit I	October 1911						

(b) Select the bit rate and port by highlighting and selecting **Settings**. A dialog box will appear listing bit rate and port options as shown below. Select **19200** bps and the appropriate serial port. If you experience data transfer problems, both the Micro-AT and Matlink communication settings should be set to 9600 bps.



(c) Verify that the status window shows a changing clock display as shown below indicating that communication with the Micro-AT control has been established. If a problem is encountered in establishing communication, an appropriate dialog box will be displayed explaining the problem. Should you need to change the bit rate at the Micro-AT control, refer to Quick-Start Programming Instruction Sheet 515-530 or Instruction Sheet 515-500 or 515-600 for details.

Voltana Gunnat Time Ganfin Lunate Outputs Net Basets							
Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log
	Source	Current	Po	rt Selected:	COM1		
Left	GOOD	NORMAL	No	t Ready	Vista C	om	11/12/07
Right	GOOD	NORMAL	Ne	w Events	Prefer	ed Left	16:59:49



What Matlink Can Do

Using Matlink, you'll be able to view the following:

- The settings of a Micro-AT control, which include its operating characteristics and voltage-, current-▲, and time-related operating parameters;
- System voltage and current▲ values;
- The status of the Micro-AT control, its associated switch operators, and remote supervisory functions^{II}, and
- The event log of the Micro-AT control.

You'll also be able to save to file the Micro-AT settings and the event log. You'll have the capability of changing most settings of the Micro-AT control, either from your computer or from a file.

If necessary, you can use Matlink to view messages explaining why the automatictransfer "ready" lamp on a Micro-AT control isn't lighted. And when troubleshooting data-line circuit problems, you'll be able to examine the status of digital inputs to the control and digital outputs from the control.

The event log is available in two formats, *.log and *.csv. The configuration data is also available in two formats, *.cfg and *.txt. The *.log file can be viewed using an application such as Microsoft[®] Notepad or Microsoft[®] Word.

- Applicable to installations furnished with overcurrent lockout feature.
- Applicable to installations furnished with supervisory control feature.

Viewing Micro-AT Control Settings

NOTICE

For new Micro-AT installations: Before proceeding, you'll need to normalize the left and right sources to compensate for any output-voltage magnitude and/or phase-angle unbalance between the voltage-sensing devices on that source. You'll also need to set the base voltages on phase 2 of the left and right sources. Each source should be in its known normal state during the execution of the normalizing and set base menu items so that any unusual conditions are calibrated out. Refer to Quick-Start Programming Instruction Sheet 515-500 or 515-600 for details. *Normalizing the sources and setting the base voltages must be performed at the Micro-AT control. These functions cannot be performed using Matlink.*

In the steps which follow, you'll be viewing the settings of items listed in the **Configuration**, **Voltage**, **Current**, and **Time** data windows. You can also access these items by highlighting and selecting **Window** on the menu bar, as shown below, and then highlighting and selecting the appropriate data window.

Voltage	Curr	Voltage		Config	Inputs	Outputs	Not Ready	Event Lo
	Source	Current Time	nt	Por	t Selected	COM1	·	
eft	GOOD	Inputs	AL	Not	Ready	Vista (Com	11/12/07
Right	GOOD	Outputs	AL	New	w Events	Prefer	red Left	17:00:23
		Config						
		Not Ready						
		Event Log						
			1					
			1					
			1					
			1					
			1					
	L							

If any of the field adjustable items need to be changed, refer to "**Changing Micro-AT Control Settings**" on page 13.

Step 7

Click on the **Config** button bar. The **Configuration** data window will appear, similar to that shown below.

Right GOOD NORMAL New Events Preferred Left 17:00:48 Configuration Bus Type Vista Common Preferred Source Left Voltage Sensing 4 Wire Unbalance Install In Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out	Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log
Right GOOD NORMAL New Events Preferred Left 17:00:48 Configuration Bus Type Vista Common Preferred Source Left Voltage Sensing 4 Wire Unbalance Install In Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out		Source	Current	Po	rt Selected:	COM1		
Configuration Bus Type Vista Common Preferred Source Left Voltage Sensing 4 Wire Unbalance Install In Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out	Left	GOOD	NORMAL	No	t Ready	Vista (Com	11/12/07
Bus Type Vista Common Preferred Source Left Voltage Sensing 4 Wire Unbalance Install In Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out	Right	GOOD	NORMAL	Ne	w Events	Prefer	red Left	17:00:48
Preferred Source Left Voltage Sensing 4 Wire Unbalance Install In Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out				Config	uration			
Preferred Source Left Voltage Sensing 4 Wire Unbalance Install In Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out	Bus	Туре	Vi	sta Comm	on			
Unbalance Install In Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out		1910 B (1916)	Le	eft				
Unbalance Detect On Return Mode Supv Window Transition Mode Open Lockout Option In Dwell Timer Out	Volta	age Sensing	4	Wire				
Return ModeSupv WindowTransition ModeOpenLockout OptionInDwell TimerOut	Unb	alance Install	In					
Transition Mode Open Lockout Option In Dwell Timer Out	Unb	alance Detect	0	n				
Lockout Option In Dwell Timer Out	Retu	rn Mode	Su	upv Windo	w			
Dwell Timer Out	Tran	sition Mode	0	pen				
	Lock	cout Option	In					
Supervisory Control Out	Dwe	ll Timer	0	ut				
Supervisory control Out	Sup	ervisory Control	0	ut				

The field adjustable items in the **Configuration** data window which can be changed using Matlink include **Unbalance Detect**[♦], **Return Mode**[♦], **Transition Mode**[♦], and **Dwell Timer**. (**Preferred Source** is also field adjustable but cannot be changed using Matlink. If necessary, **Preferred Source** can be changed at the Micro-AT control.)

Bus Type, Voltage Sensing, Unbalance Install, Lockout Option, and Supervisory Control are all factory-set and are not field adjustable.

Step 8

Click on the **Voltage** button bar. The **Voltage** data window will appear, similar to that shown below.

Voltage	Current	Time	Confi	g Inputs	Outputs	Not Ready	Event Log
	Source	Current		Port Selected:	COM1		
Left	GOOD	NORMAL		Not Ready	Vista (Com	11/12/07
Right	GOOD	NORMAL		New Events	Prefer	red Left	16:00:19
				Voltage			
		1	Left	Right			
Pha	se 1	1	19.9	120.1			
Pha	se 2	1	20.3	120.8			
Pha	se 3	1	20.1	120.9			
Zero	Sequence		0.1	0.0			
Posi	tive Sequence	: 1	20.3	120.9			
Neg	ative Sequenc	e	0.1	0.1			
Loss	s Of Source Le	vel	85.0				
Retu	Irn Of Source I	evel 1	05.0				
Unb	alance Level		20.9				
Ove	rvoltage Level	1	35.0				

This function may have been factory-set so that it is not field adjustable.

The actual left-source and right-source phase voltages, zero-sequence voltages, positive-sequence voltages, and negative-sequence voltages after normalizing are displayed.

The field adjustable items in the **Voltage** data window which can be changed using Matlink include **Loss of Source Level, Return of Source Level, Unbalance Level, and Overvoltage Level**.

Step 9

If **Lockout Option** has been factory-set for "Internal," click on the **Current** button bar. The **Current** data window will appear, similar to that shown below.

MATLINK,	Windows ¥2.6						- 🗆 🗡
File Commun	nications Windo	w Settings I	Help				
Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log
-	Source	Current	Po	rt Selected:	COM1		
Left	GOOD	NORMAL	. No	t Ready	Vista C	om	11/12/07
Right	GOOD	NORMAL	. Ne	w Events	Preferr	ed Left	17:01:20
			Cur	rent			
Lock	out Option		Inte	rnal			
Lock	out Level			480			
Left N	Neutral Curre	nt		1			
Right	Neutral Curr	rent		1			

The Lockout Level is field adjustable using Matlink.

Step 10

Click on the **Time** button bar. The **Time** data window will appear, similar to that shown below.

Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log
	Source	Current	Po	rt Selected:	COM1		
Left	GOOD	NORMAL	No	t Ready	Vista (Com	11/12/07
Right	GOOD	NORMAL		w Events	Prefer	red Left	16:01:54
			Ti	me			
0.000	s of Source L	3193 (2.0 seco	0.000			
	s Of Source F	000000	2.0 seco				
	urn Of Source	00:0	3:00 (H:M:				
Loc	kout Reset		20.0 seco	nds			
Tra	nsition Dwell		n/a seco	nds			
Wir	ndow Begin Ti	me 01:0	0:00				
Mic	ro-AT Date	11/1	2/07				
Mic	ro-AT Time	16:0	1:54				

The field adjustable items in the **Time** data window which can be changed using Matlink include Loss of Source Left, Loss of Source Right, Return of Source, Lockout Reset, Transition Dwell, Window Begin Time, Micro-AT Date, and Micro-AT Time.

NOTICE

A help screen is available for viewing settings.

Step 11

If, after checking the factory-settings of items listed under the **Configuration**, **Voltage**, **Current**, and **Time** data windows, you determine that one or more field adjustable items need to be changed:

(a) Highlight and select **Settings** on the menu bar. A new pop-up menu will appear listing settings options, similar to that shown below.

Voltage	Current	Change	onfig	Inputs	Outputs	Not Ready	Event Lo
	Source	Current	Po	rt Selected:	COM1		
Left	GOOD	NORMAL	No	t Ready	Vista (Com	11/12/07
Right	GOOD	NORMAL	Ne	w Events	Prefer	red Left	16:02:22
			Ti	me			
Loss	s of Source Left		2.0 seco	nds			
201010	s Of Source Rig		2.0 seco	200.070			
	Irn Of Source		:00 (H:M:	SI			
Lock	cout Reset		0.0 seco				
Tran	sition Dwell		n/a seco	nds			
Win	dow Begin Tim	e 01:00	:00				
Micr	o-AT Date	11/12	07				
Micr	o-AT Time	16:02	:23				
Micr	o-Al lime	16:02	:23				

Changing Micro-AT Control Settings

(b) Highlight and select **Change**. After a short delay, during which Matlink is retrieving data from the Micro-AT control, the **Change Configuration** data window will appear, similar to that shown below. The present settings and alternative new settings of **Configuration** items are listed. If an item listed in the **Voltage**, **Current**, or **Time** data window is to be changed, proceed to Step 11 (e).

Name Config	Present Setting	New Setting	Send to AT
Bus Type	Vista Common	Not Changeable	_
Preferred Source	Left	Not Changeable	Load File
Voltage Sensing	4 Wire	Not Changeable	Save to File
Unbalance Install	Out	Not Changeable	More >>
Unbalance Detect	Off	Not Changeable	Law international
Select Return	Auto	Auto 👻	Close
Select Transition	Open	Open 👻	
Lockout Option	In	Not Changeable	
Dwell Timer	In	In 💌	
Supervisory Contro	ol In	Not Changeable	
Page 1 of 2			

Note that, for factory-set items which are not field adjustable, the alternative settings are shown as "Not Changeable."

(c) If an item listed in the **Change Configuration** data window is to be changed, highlight and select the drop-down setting box for the item. For example, if **Select Return** is to be changed from "Auto" to "Hold," highlight and select the appropriate drop-down setting box. A new window will appear listing the alternative settings, similar to that shown below.

Name Config	Present Setting	New Setting	Send to AT
Bus Type	Vista Common	Not Changeable	
Preferred Source	Left	Not Changeable	Load File
√oltage Sensing	4 Wire	Not Changeable	Save to File
Unbalance Install	Out	Not Changeable	More >>
Unbalance Detect	Off	Not Changeable	-
Select Return	Auto	Auto	Close
Select Transition	Open	Hold Auto	
Lockout Option	In	Window	
Dwell Timer	In	In 💌	
Supervisory Contro	ol In	Not Changeable	
Page 1 of 2			

Name Config	Present Setting	New Setting	Send to AT
Bus Type	Vista Common	Not Changeable	
Preferred Source	Left	Not Changeable	Load File
Voltage Sensing	4 Wire	Not Changeable	Save to File
Unbalance Install	Out	Not Changeable	More >>
Unbalance Detect	Off	Not Changeable	
Select Return	Auto	Hold	Close
Select Transition	Open	Open	
Lockout Option	In	Not Changeable	
Dwell Timer	In	In 💽	
Supervisory Contro	l In	Not Changeable	

(d) In this example, select ${\bf Return}$ "Auto." The following screen will appear.

(e) If an item listed in the **Voltage**, **Current**, or **Time** data window is to be changed, click on the **More** >> button. A new window will appear, similar to that shown below.

(Setting Range)	Present Setting	New Setting	Condite AT
(10.0 Valta to 105 Valta)	PE 0 Volto	85.0	Send to AT
**************************************	A DESCRIPTION OF T		Load File
(100 Volts to 120 Volts)	105.0 Volts	105.0	
l (120 Volts to 140 Volts)	135.0 Volts	135.0	Save to File
(12.0 Volts to 60.0 Volts)	N/A		More >>
			Close
200 Amps to 1500 Amps)	480 Amps	480	
(0.25 to 240 seconds)	2.00 Seconds	2.00	
(0.25 to 240 seconds)	2.00 Seconds	2.00	
(5 sec - 8 hours)	00:10:00 [H:M:S]	00:10:00	
(0.25 to 240 seconds)	20.00 Seconds	20.00	
(0.25 to 10.0 seconds)	2.0 Seconds	2.0	
01:00 [H:M] 01:00			
	(10.0 Volts to 105 Volts) (100 Volts to 120 Volts) (120 Volts to 120 Volts) (12.0 Volts to 60.0 Volts) (2.0 Amps to 1500 Amps) (0.25 to 240 seconds) (0.25 to 240 seconds) (0.25 to 240 seconds) (0.25 to 240 seconds) (0.25 to 10.0 seconds)	(10.0 Volts to 105 Volts) 85.0 Volts (10.0 Volts to 120 Volts) 105.0 Volts (100 Volts to 120 Volts) 105.0 Volts (120 Volts to 140 Volts) 135.0 Volts (12.0 Volts to 140 Volts) 135.0 Volts (12.0 Volts to 50.0 Volts) N/A (200 Amps to 1500 Amps) 480 Amps (0.25 to 240 seconds) 2.00 Seconds (0.25 to 240 seconds) 2.00 Seconds (5 sec - 8 hours) 00:10:00 [H:M:S] (0.25 to 10.0 seconds) 2.0 Seconds	(10.0 Volts to 105 Volts) 85.0 Volts 85.0 (100 Volts to 120 Volts) 105.0 Volts 105.0 (1100 Volts to 120 Volts) 105.0 Volts 105.0 (120 Volts to 140 Volts) 135.0 Volts 135.0 (12.0 Volts to 60.0 Volts) N/A (200 Amps to 1500 Amps) 480 Amps 480 (0.25 to 240 seconds) 2.00 Seconds 2.00 (0.25 to 240 seconds) 20.00 Seconds 20.00 (0.25 to 10.0 seconds) 2.00 Seconds 20.00

(f) Highlight and select the edit box for the affected item. For example, if **Loss of Source** voltage is to be changed from "85.0" to "83.0," highlight and select the present setting. The following screen will appear:

(Setting Range)	Present Setting	New Setting	
	1	12	Send to AT
(10.0 Volts to 105 Volts)	85.0 Volts	85.0	Lond Pile
(100 Volts to 120 Volts)	105.0 Volts	105.0	Load File
el (120 Volts to 140 Volts)	135.0 Volts	135.0	Save to File
(12.0 Volts to 60.0 Volts)	N/A		More >>
			Close
(200 Amps to 1500 Amps)	480 Amps	480	21030
(0.25 to 240 seconds)	2.00 Seconds	2.00	
(0.25 to 240 seconds)	2.00 Seconds	2.00	
(5 sec - 8 hours)	00:10:00 [H:M:S]	00:10:00	
(0.25 to 240 seconds)	20.00 Seconds	20.00	
(0.25 to 10.0 seconds)	2.0 Seconds	2.0	
01:00 [H:M] 01:00			
	(10.0 Volts to 105 Volts) (100 Volts to 120 Volts) (120 Volts to 120 Volts) (12.0 Volts to 140 Volts) (12.0 Volts to 60.0 Volts) (0.25 to 240 seconds) (0.25 to 240 seconds) (0.25 to 240 seconds) (0.25 to 240 seconds) (0.25 to 10.0 seconds)	(10.0 Volts to 105 Volts) 85.0 Volts (10.0 Volts to 120 Volts) 105.0 Volts (120 Volts to 120 Volts) 105.0 Volts (120 Volts to 140 Volts) 135.0 Volts (12.0 Volts to 60.0 Volts) N/A 200 Amps to 1500 Amps) 480 Amps (0.25 to 240 seconds) 2.00 Seconds (0.25 to 240 seconds) 2.00 Seconds (5 sec - 8 hours) 00:10:00 [H:M:S] (0.25 to 240 seconds) 2.00 Seconds (0.25 to 10.0 seconds) 2.0 Seconds	(10.0 Volts to 105 Volts) 85.0 Volts 85.0 (10.0 Volts to 120 Volts) 105.0 Volts 105.0 (10.0 Volts to 120 Volts) 105.0 Volts 105.0 (12.0 Volts to 140 Volts) 135.0 Volts 135.0 (12.0 Volts to 60.0 Volts) N/A 200 Amps to 1500 Amps) 480 Amps 480 (0.25 to 240 seconds) 2.00 Seconds 2.00 (5 sec - 8 hours) 00:10:00 [H:M:S] 00:10:00 (0.25 to 240 seconds) 2.00 Seconds 20.00 (0.25 to 240 seconds) 20.00 Seconds 20.00 (0.25 to 240 seconds) 20.00 Seconds 20.00 (0.25 to 240 seconds) 20.00 Seconds 20.00 (0.25 to 10.0 seconds) 2.00 Seconds 20.00

(g) Enter the desired value. The following screen will appear.

Name	(Setting Ra	ange) Present Setti	ng New Setting	
Voltage		1.2898. 1585.988.887		Send to AT
Loss of Source Return of Source	(10.0 Volts to 105 V Save Configuration File	6	lts 83.0	Load File
Overvoltage Le	File name:	Folders:	ОК	Save to File
Unbalance Lev	i do	c:\mat26	Cancel	More >>
Current Lockout Level		MAT26	Network	<u>C</u> lose
ſime ———	-		2	
Loss of Left	Save file as type:	Drives:		
Loss of Right	Configuration Files (".cfg 💌	C: System	•	
Return of Source	e (5 sec - 8 hours)	UU:TU:UU [H:H	W:S] 00:10:00	
Lockout Reset	(0.25 to 240 seco	nds) 20.00 Secon	ds 20.00	
Return Dwell	(0.25 to 10.0 seco	nds) 2.0 Secon	ds 2.0	
Window Begin	01:00 [H:M]	01:00		
Page 2 of 2			1	

If the operating characteristics and operating parameters are *not* to be saved to your computer as a configuration file, proceed to **"Sending a Configuration File to the Micro-AT Control"** on page 21.



Creating a Configuration File

Step 12

To save to your computer the particular set of operating characteristics and operating parameters that you've checked and/or revised in **Change Configuration**, click on the **Save to File** button. The following screens will appear.

Name Voltage	(Setting Ra	nge) Present Setting	New Setting	Send to AT
Loss of Source	(10.0 Volts to 105 Vo	olts) 85.0 Volts	83.0	
Return of Sourc	Save Configuration File	and the second s	? ×	Load File
Overvoltage Le	File name:	Folders:	ОК	Save to File
Unbalance Lev		c:\mat26	Cancel	More >>
Current	<u>``</u>	C:\ MAT26	Network	
Lockout Level				Close
lime	-1		-	
Loss of Left	Save file as type:	Drives:		
Loss of Right	Configuration Files (*.cf; -	C: System	-	
Return of Sourc	e (5 sec - 8 hours)	UU:TU:UU [H:M:S	00:10:00	
Lockout Reset	(0.25 to 240 secon	ds) 20.00 Seconds	20.00	
Return Dwell	(0.25 to 10.0 secon	ds) 2.0 Seconds	2.0	
Window Begin	01:00 [H:M] 0	1:00		
Page 2 of 2	10	a a		

Enter an appropriate name for the configuration file.

Name	(Setting Range)	Present Setting	New Setting	
Voltage			<u> </u>	Send to AT
Loss of Source	(10.0 Volts to 105 Volts)	85.0 Volts	83.0	Load File
Return of Source	(100 Volts to 120 Volts)	105.0 Volts	105.0	Luau File
Overvoltage Leve	l (120 Volt Progress	A CONTRACTOR OF THE OWNER	×	Save to File
Unbalance Level	(12.0 Volt i) Configur	ation Data Saved to C:\M/	T26\DEMO.CFG.	More >>
Current	·		1	Close
Lockout Level (200 Amps	OK		0.000
Time			2 01	
Loss of Left	(0.25 to 240 seconds)	2.00 Seconds	2.00	
Loss of Right	(0.25 to 240 seconds)	2.00 Seconds	2.00	
Return of Source	(5 sec - 8 hours)	00:10:00 [H:M:S]	00:10:00	
Lockout Reset	(0.25 to 240 seconds)	20.00 Seconds	20.00	
Return Dwell	(0.25 to 10.0 seconds)	2.0 Seconds	2.0	
Window Begin	01:00 [H:M] 01:00			

Name	(Setting Range)	Present Setting	New Setting	
oltage				Send to AT
loss of Source	(10.0 Volts to 105 Volts)	85.0 Volts	83.0	Load File
Return of Source	(100 Volts to 120 Volts)	105.0 Volts		
Overvoltaç Progres	SS CONTRACTOR OF CONTRACTOR		×	Save to File
Jnbalance 🕕	Text Format Version of the Con	figuration Data Saved to	C:\MAT26\DEMO.bt.	More >>
urrent—		OK		Close
.ockout Le		OK		-
ime				
Supervision of the supervision o	(0.25 to 240 seconds)	2.00 Seconds	2.00	
oss of Left	(0.25 to 240 seconds) (0.25 to 240 seconds)	2.00 Seconds 2.00 Seconds	2.00	
oss of Left. oss of Right	Correct states and	10040 T21		
ime .oss of Left .oss of Right Return of Source .ockout Reset	(0.25 to 240 seconds)	2.00 Seconds	2.00	
oss of Left oss of Right Return of Source	(0.25 to 240 seconds) (5 sec - 8 hours)	2.00 Seconds 00:10:00 [H:M:S]	2.00	

You can also save to your computer a particular set of operating characteristics and operating parameters by highlighting and selecting **File** on the menu bar. A new pop-up menu will appear listing file options as shown below.

	rrent	Time	Confi	g Inputs	Outputs	Not Ready	Event Log
Save Events	ce	Current		Port Selected	I: COM1		
Exit	D	NORMAL		Not Ready	Vista (Com	11/12/07
Right GOO	D	NORMAL		New Events	Prefer	red Left	16:05:46
				Voltage			CALLS OF THE
		I	eft	Right			
Phase 1		1	20.1	120.3			
Phase 2		1	20.2	120.5			
Phase 3		1	20.0	120.8			
Zero Sequ	ence		0.3	0.1			
Positive S	equence	1	20.2	120.6			
Negative S	equence		0.2	0.2			
Loss Of Sc	urce Lev	el	85.0				
Return Of S	Source Le	vel 1	05.0				
Unbalance	Level		20.9				
Overvoltag	e Level	1	35.0				

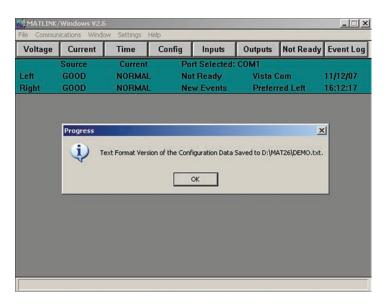
.eft Sav	Current Configurati	Time Current	Config	Inputs			
.eft Sav					Outputs	Not Ready	LVCINLU
light File			• De	d Calastad	?	×	11/12/07
ugite	e name:		Folders:		OK		16:10:35
1.0	lo		d:\mat26				
		-	[] d\	-	Cancel	1	
		_	AT26	_	Network	1	
						-	
				-			
	ve file as type:		Drives:				
Co	onfiguration File	s (*.cfç 🚬	🖃 d: Data	-			

Highlight and select **Save Config**. The following screen will appear.

Enter an appropriate name for the configuration file.

In both instances, two files will be created, a binary (*.cfg) file and a text formatted (*.txt) file. A notification prompt will be displayed with the full file location information.

MATLINK,	/Windows ¥2.6						_ 🗆 ×
File Commun	nications Windo	w Settings H	lelp		on		
Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log
	Source	Current	Po	rt Selected:	COM1		
Left	GOOD	NORMAL	. No	t Ready	Vista C	om	11/12/07
Right	GOOD	NORMAL	Ne	w Events	Preferr	ed Left	16:12:03
	E	Progress	in an in the line in the	Saved to D:\M		×	
		Con			AT20(DEMO.Cr	ч.	
	-						



Downloading a Configuration File

Step 13

To download to your computer a particular configuration file that was created in **Settings**, click on the **Load File** button. The following screen will appear.

Prefe Image: Concel Cancel Volta: DEMO.CFG > Unba >> Mat26 Unba >>	ad File e to File
Volta: DEMO.CFG A Cancel Save	e to File
Unba Selec	
Selec J J	ore >>
Seler List files of type: Drives:	lose
Lock Configuration Files (".cfc Configuration Fi	
Dwell Timer Out Out	
Supervisory Control Out Not Changeable	

Enter the name of the desired configuration file.



Sending a Configuraton File to Micro-AT

Step 14

To send to the Micro-AT control a configuration file that you've just created or a configuration file that you've just downloaded to your computer in **Settings**, click on the **Send to AT** button. After a short delay, during which Matlink is transmitting data to the Micro-AT control, the following screen will appear.

Name Config	Present Setting	New Setting	Send to AT
Bus Type	Vista Common	Not Changeable	Load File
Preferred Source	Left	Not Changeable	Loau rite
Voltage Sensing	4 Wire	Not Changeable	Save to File
Unbalance Install	Out	Not Changeable	More >>
Unbalance Detect		Not Changeable	
Select Return Select Transition Lockout Option Dwell Timer	-	Ccess Code:	Close
Supervisory Cont		Not Changeable	
Page 1 of 2			

Enter the access code.

Error messages are shown on the following screens.

File Commu Voltage	nications <u>W</u> ind Current	ow <u>S</u> ettings <u>H</u> Time	Config	Inputs	Outputs	Not Ready	Event Log
Left Right	Source GOOD GOOD	Current NORMAL NORMAL	No	rt Selected: t Ready w Events	COM1 Vista C Preferr		06/20/02 15:24:02
agin		HOTHING	140	H LYCHUS	Ticicii	UV LUN	Forchute
	C	Communication				×	
		There	were data erro	ors. A second	attempt will follo	W.	
				ЭК 🔤			

Maltaua	Current	Time	Config	Inputs	Outputs	Not Ready	Fundle
Voltage						Not Ready	EventL
	Source	Current		rt Selected:			
eft	GOOD	NORMAL		t Ready	Vista (Com	06/20/02
light	GOOD	NORMAL	Ne	w Events	Prefer	Preferred Left	
ommunica	itions Error		_	_			
	Alexandra Provide	_	_	_	_		_
ommunica	itions Error						-
~		perienced while c	ommunicating	with Micro-AT.	Check connec	tions and setting	s and try ag
~		perienced while c	ommunicating	with Micro-AT.	Check connec	tions and setting	s and try ag
~		perienced while c	_		Check connec	tions and setting	s and try ag
		perienced while c	_	with Micro-AT.	Check connec	tions and setting	s and try ag
~		perienced while o	_		Check connec	tions and setting	s and try ag
		perienced while c	_		Check connec	tions and setting	s and try ag
		perienced while c	_		Check connec	tions and setting	s and ity ag
		perienced while or	_		Check connec	tions and setting	s and try ag
		perienced while cr	_		Check connec	tions and setting	s and try ag

NOTICE

Matlink compares the factory-set items already present in the CONFIGURE menu of the Micro-AT control with the factory-set items of the configuration file that you've just sent. If there are any conflicts between them, the updated configuration will not be accepted.

For instance, if the CONFIGURE menu of the control has been factory-set for a common-bus metal-enclosed switchgear application, then a configuration for a pad-mounted gear application cannot be entered into the control.

To view messages explaining why the automatic-transfer "ready" lamp on the Micro-AT control is not lighted, click on the **Not Ready** button bar. The following screen will appear.

Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Lo
	Source	Current	Po	rt Selected:	COM1		
ft	GOOD	NORMAL	No	t Ready	Vista (Com	11/12/07
ight	GOOD	NORMAL	Ne	w Events	Preferred Left		17:02:43
			Not Rea	ady List			

In this particular case, the "ready" lamp is not lighted on the Micro-AT because the manual/automatic operation selector switch on the Micro-AT control is in "MANUAL", the Right Operator is not in the Open position, the Left Operator is not in the Closed position, and the Low Tank Pressure alarm is active.

Viewing the "Not Ready" List

NOTICE

A help screen is available for viewing the not ready list.

Troubleshooting Data-Line Circuit Problems If, in the course of troubleshooting a Micro-AT control in accordance with Instruction Sheet 515-520, it becomes necessary to diagnose a data-line circuit problem, the digital inputs to the control and digital outputs from the control can be examined using Matlink.

To view digital inputs to the Micro-AT control, click on the **Inputs** button bar. The following screen will appear.

Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Loc
3	Source	Current		rt Selected:			
Left Right	GOOD	NORMAL	. No	t Ready w Events	Vista C Preferr		11/12/07
rugitt				Inputs	1101011		11100100
			Left	Right	Tit	e	
Ope	erator Open	F	alse	False	n/a	a	
Ope	erator Closed	F	alse	False	n/a	а	
Ope	erator Coupled		n/a	n/a	n/a	a	
Ope	erator Grounde	d F	alse	False	n/i	a	
Ma	nual Trip Close		n/a	n/a	n/a		
Shu	itter Interlock		n/a	n/a	n/a		
Tan	k Pressure Lo	w	n/a	True		n/a	
Sup	ervisory Trip (Open	n/a	n/a	n/a		
Sup	ervisory Trip (Close	n/a	n/a	n/a	a	
Cha	arged To Open		n/a	n/a			
Cha	arged To Close		n/a	n/a			
2000000	acitor Charged		n/a	n/a			
2017/02	. Overcurrent F		alse	False			
Ext	. Overcurrent S	iet	n/a	n/a			

The true/false operating responses of the snap-action limit switches (and key interlocks, if applicable) at the inputs of the control are shown.

To view digital outputs from the Micro-AT control, click on the **Outputs** button bar. The following screen will appear.

Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Lo
	Source	Current	Po	rt Selected:	COM1		
Left			NORMAL No		Vista C	om	11/12/07
Right	GOOD	NORMAL	Ne	w Events	Preferr	ed Left	17:03:27
1.1.1.1.1.1.1			Digital	Outputs			
		1	_eft	Right	Ti	6	
Operator Trip		F	False		n/a		
Run Motor		n/a		n/a			
Steer To Open		F	alse	False			
Stee	r To Close	F	alse	False			

The true/false operating responses at the outputs of the control are shown.

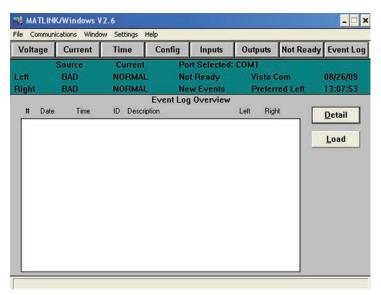
NOTICE

A help screen is available for troubleshooting data lines.

Uploading the Micro-AT Control Event Log

The Micro-AT control records system status, as well as software status, every time a change occurs. Each such status change—referred to as an "event"—is indicated by the illumination of a lamp on the "EVENT" menu key of the control. The last 130 events are stored in memory at any given time, in an event log.

To upload the event log of the Micro-AT control to your computer, click on the **Event** Log button bar. The following screen will appear.



Click on the **Load** button. A dialog box will appear as shown below.

-		<th></th> <th></th> <th></th> <th></th> <th></th> <th>- 🗆 X</th>						- 🗆 X			
		cations Wind		lelp		-		-			
Volt	age	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log			
		Source	Current	Po	rt Selected:	COM1		Uniterativ			
Left		BAD	NORMAL	No	t Ready	Vista C	om	08/26/09			
Right	t —	BAD	NORMAL	Ne	w Events	Preferr	ed Left	13:09:14			
			10		Ouerdeur		1				
#	Date	Time	Transfer Sta			×		Detail			
			-				\square –	Derrain			
			Lo	Loading Events from Micro-AT							
				123	of 130						
				Ca	ncel						
				<u>_</u>							
							1				
_											

Following the completion of the download of the Event Log, the Configuration Event Log will download during which a dialog box will appear as shown below:

Volta	ige Ci	urrent	Time	Config	Inputs	Outputs	Not Ready	Event Log
	Sou	rce	Current	Po	t Selected	COMI		
elt	GO	on	NORMAL	No	t Ready	Vista	Com	11/12/07
					terra de la contra de			
Right	GO	00	NOFIMAL	The second s	w Events	Preter	red Lett	16:08:29
				Event Log	Overview			
=	Date	Time	ID Descrip	tion		Left Rig	ht 🗌	Detail
079	11/12/07	09 21 52	122 Openin	Risk	God	d Bad		Decan
090	11/12/07	09:21:52	209 Closing	Pael	Goo		-	
081	11/12/07	09:21:52	100 Closing		Goo			Load
082	11/12/07	09:21:52		Restrant Right			100	Fear
083	11/12/07	09:21:52	201 On Piel	lened	God	d Bad		
084	11/12/07	09.22.03	430 Start Ve	eily OC Timer I	eft Goo	d Good		
085	11/12/07	09:22:03	410 Latch C		Goo	d Good		
000	11/12/07	09.22.03	420 Latch C	Ic Right	Goo	d Good		
087	11/12/07	09:22:03		Timer Left	Goo			
088	11/12/07	03:22:04		Timer Right	Goo			
089	11/12/07	03:22:06	011 Local T		Goo			
090	11/12/07	09.22.06		Lockout Times				
091	11/12/07	03:22:06		Lockout Timer				
092	11/12/07	09.22.07	218 Eriter M		Goo			
093	11/12/07	09:22:07		Ic Latch Left	Goo		100	
094	11/12/07	09.22.07		C Latch Right				
095	11/12/07	09:27:56		iestvant Left	Bad			
096	11/12/07	09:27:56	039 Power I		Bad		-	
097	11/12/07	10/40/13	000 System	Statup	8.40	Bad		

Note that the event log overview lists, for each event, the following:

- The event number;
- The date of the event;
- The time of the event;
- The event ID number (see the "Appendix" section of Instruction Sheet 515-500 or 515-600);
- The event description (the same description indicated in the "Appendix" section of Instruction Sheet 515-500 or 515-600);
- The condition of the left source during the event; and
- The condition of the right source during the event.
- You can scroll through the event log as desired. For more detail on a particular event, highlight that event and click on the Detail button. Or double-click on the event. The following screen will appear.

	1		telp			And a second second second second	
Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Log
	Source	Current	Po	rt Selected:	COM1		
Left	GOOD	NORMAL	No	t Ready	Vista C	om	11/12/07
Right	GOOD	NORMAL	Ne	w Events	Preferr	ed Left	16:16:03
			Event L	og Detail			
Event N	umber	- 117				0	verview
Date/Tin	ne	- 11/0	6/07 18:28	:43			
Event ID)	- 201	On Preferr	ed			Load
Left Sou	rce Voltage	- 121.	7 120.2 1	22.0 0.5 0.	.7	<u>.</u>	
Right So	ource Voltage	- 109.	4 108.4 1	09.4 0.2 0.	.2		Next
Left Sou	rce Condition	- Good	ł				
Right Sc	ource Condition	n - Good	ł			P	revious
Left Ove	ercurrent State	- Mag	Restraint				
Right Ov	vercurrent Stat	e - Norn	nal Current				Oldest
Left Ope	rator State	- Read	dy To Oper	í.		<u>1</u>	
Right Op	perator State	- Read	dy To Clos	e			Newest
Tie Ope	rator State	- Not /	Applicable				едеен
Transfer	r State	- Both	On Prefer	red			
Flag Wo	ord	- 0110	1010 000	0 0001			

Note that the event log detail lists, for a particular event, the following:

- The event number;
- The date/time of the event;
- The event ID number;
- The left-source phase and unbalance voltages during the event;
- The right-source phase and unbalance voltages during the event;
- The left-source voltage condition during the event (good, bad, or overvoltage);
- The right-source voltage condition during the event (good, bad, or overvoltage);
- The left-source overcurrent state during the event (normal, latch, or reset);
- The right-source overcurrent state during the event (normal, latch, or reset);
- The left-source operator state during the event**v**;
- The right-source operator state during the event**v**;
- The bus-tie operator state during the event**v**;
- The transfer controller state during the event \mathbf{V} ; and
- The 16-bit flagword (for factory-diagnostic use).

The event log detail for the next event, the previous event, the oldest event, or the newest event can be obtained by clicking on the **Next** button, the **Previous** button, the **Oldest** button, or the **Newest** button, respectively.

Note that the configuration event log overview lists, for each event, the following:

- The event number;
- The date of the event;
- The time of the event;
- The event ID number (see the "Appendix" section of the Instruction Sheet 515-500 or 515-600).
- ▼ See "DIAGNOSTIC TOOLS" section of Instruction Sheet 515-500 or 515-600.

NOTICE

A help screen is available for uploading the event log.

Creating an Events File

To save to your computer an event log that you've uploaded, highlight and select **File** on the menu bar. A pop-up menu will appear listing file options as shown below.

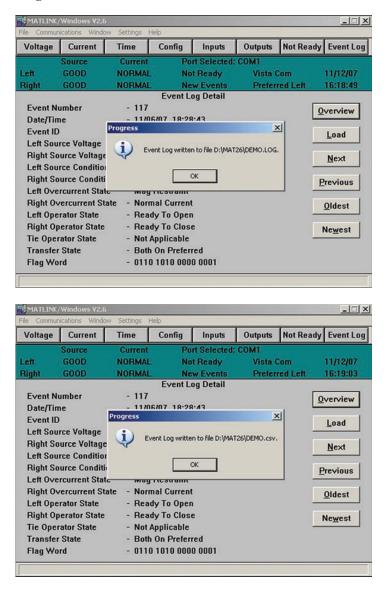
Save Config	t Time	Config	Inputs	Outputs	Not Ready	Event Log
Save Events	Current	Por	t Selected:	COM1		
Exit DD	NORMA		Ready	Vista C	om	11/12/07
Right GOOD	NORMA		w Events	Preferr		16:16:28
		Event Lo	g Detail			
Event Number	- 117				0	verview
Date/Time	- 11/	06/07 18:28	:43			
Event ID	- 201	On Preferre	ed			Load
Left Source Voltag	je - 121	.7 120.2 12	2.0 0.5 0	.7	<u> </u>	
Right Source Volta	age - 109	.4 108.4 10	9.4 0.2 0	.2		Next
Left Source Condi	tion - Goo	bd				
Right Source Con	dition - Goo	bd			P	revious
Left Overcurrent S	State - Ma	g Restraint				
Right Overcurrent	State - Nor	mal Current				Oldest
Left Operator Stat	e - Rea	dy To Open			-	
Right Operator Sta	ate - Rea	dy To Close	31		10	Newest
Tie Operator State	- Not	Applicable				
Transfer State	- Bot	h On Preferr	ed			
Flag Word	- 011	0 1010 0000	0001			

Highlight and select **Save Events**. The following screen will appear.

Voltage	Current	Time	Config	Inputs	Outputs	Not Ready	Event Lo
eft light	Save Event Log File File name:	C	Folders:	et Calantadi	20141 21 0K	≍ Left	11/12/07 16:18:25
Eveni Date/ Eveni Left S Right Left S		X	d:\mat26	×	Cancel Network		verview Load Next
Right Left C	Save file as type: Event Log Files (*.log)	•	Drives:	•		E	revious
Right_ Left O	perator State	- Re	eady To Open				<u>O</u> ldest
Right Tie Op	Operator State erator State er State	- Re - No - Bo	eady To Close ot Applicable oth On Preferr 10 1010 0000	ed.			Ne <u>w</u> est

Enter an appropriate name for the events file.

Two files will be created, a text output (*.log) file, which can be viewed using an application such as Note pad or Word, and a comma delimited (*.csv) file, which can be viewed using Excel.



NOTICE A help screen is available for creating events files.

Setting a Default Configuration

The steps which follow apply only in instances where a Micro-AT Source-Transfer Control is *not* connected to your personal computer.

Step A

Turn on the computer and run the OS.

Double-click on the **MATLINK** icon. Or open the File Manager (Win 3.1) or Windows Explorer (Win 95+) and select **MATLINK**; then highlight and select **MATLINK.EXE**. The Matlink application will appear as shown below.

Source Current Port Selected: None _eft n/a n/a n/a n/a	224 22 1000	nications Windo		lelp	1	1
_eft n/a n/a n/a n/a	Voltage	Current	Time	Config	Inputs	Outputs
		Source	Current	Por	t Selected	: None
Right n/a n/a n/a	Left	n/a	n/a	n/a		n/a
	Right	n/a	n/a	n/a		n/a



Highlight and select **Settings** on the menu bar. A pop-up menu will appear listing settings options, as shown below.

	Windows V2.6	Settings He	lo				_OX
Voltage	Current	Change	onfig	Inputs	Outputs	Not Ready	Event Log
	Source	Current	Por	Selected:	None		
Left	n/a	n/a	n/a		n/a		00/00/00
Right	n/o	n/a	n/a		n/a		00:00:00
Change Mi	cro-AT settings						

Step C

Highlight and select **Change**. The default configuration data window will appear, as shown below.

Voltage	Set Default Configuration		× Event Lo
eft light	WARNING! Not connecte Please select default va Default Config	ed to Micro-AT! lues for 'Not Changeable' s	ettings. 00/00/00 00:00:00
	Bus Type	Common	Cancel
	Preferred Source	Left	
	Voltage Sensing	4 Wire	
	Unbalance Install	In 💌	
	Lockout Option	Out	
	Supervisory Control	Out	
	Select Return	Auto	
	Select Transition	Open 🗾	

Step D

Select the default values of all "Not Changeable" items. Refer to Quick-Start Programming Instruction Sheet 515-530 or Instruction Sheet 515-500 or 515-600 for details.

NOTICE Each default value you select must conform with the corresponding factory-set item in your Micro-AT control(s). When you subsequently download the configuration file you're creating to a particular Micro-AT control, Matlink will compare each default value to the corresponding factory-set item in the CONFIGURE menu of the control. If there are any conflicts, the downloaded configuration will not be accepted. For instance, if the CONFIGURE menu of the control is presently factory-set for a common-bus metal-enclosed switchgear application, then a configuration for a

pad-mounted gear application cannot be entered into the control.

30 S&C Instruction Sheet 515-506

For example, if **Bus Type** is to changed from "Common" to "Vista Common," highlight and select the appropriate drop-down setting box. A new window will appear listing the alternative settings, similar to that shown below.

Voltage	Set Default Configuration		×	Event Lo
Left Right	WARNING! Not connecte Please select default va Default Config		able' settings.	00/00/00 00:00:00
	Bus Type	Common 🔹	Cancel	
	Preferred Source	Common Split		
	Voltage Sensing	Split-Com Pad Mount		
	Unbalance Install	Vista Common Vista Split		
	Lockout Option	Out 💌		
	Supervisory Control	Out 💌		
	Select Return	Auto 💌		
	Select Transition	Open 💌		

In this example, select **Bus Type** "Vista Common." The following screen will appear.

Voltage	Set Default Configuration		×	Event Log
Left Right	♥ WARNING! Not connecte Please select default va ┌Default Config		e' settings.	00/00/00 00:00:00
	Bus Type	Vista Common 💌	Cancel	
	Preferred Source	Left		
	Voltage Sensing	4 Wire		
	Unbalance Install	In 💌		
	Lockout Option	Out 💌		
	Supervisory Control	Out 💌		
	Select Return	Auto 💌		
	Select Transition	Open 💌		

Name	Present Setting	New Setting	Send to AT
Config Bus Type	Vista Common	Not Changeable	Seno to At
Preferred Source	Left	Not Changeable	Load File
Voltage Sensing	4 Wire	Not Changeable	Save to File
Unbalance Install	In	Not Changeable	More >>
Unbalance Detect	On	On 📩	
Select Return	Auto	Auto	Close
Select Transition	Open	Open 🔄	
Lockout Option	Out	Not Changeable	
Dwell Timer	Out	Out	
Supervisory Contro	l Out	Not Changeable	
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After you've selected the default values of all "Not Changeable" items, click on the **OK** button. The **Change Configuration** data window will appear, similar to that shown below.

Proceed to "Changing Micro-AT Control Settings," Step 11(c) on page 14.