

Weschler AMT Software for the Enhanced Version *Transformer Advantage*

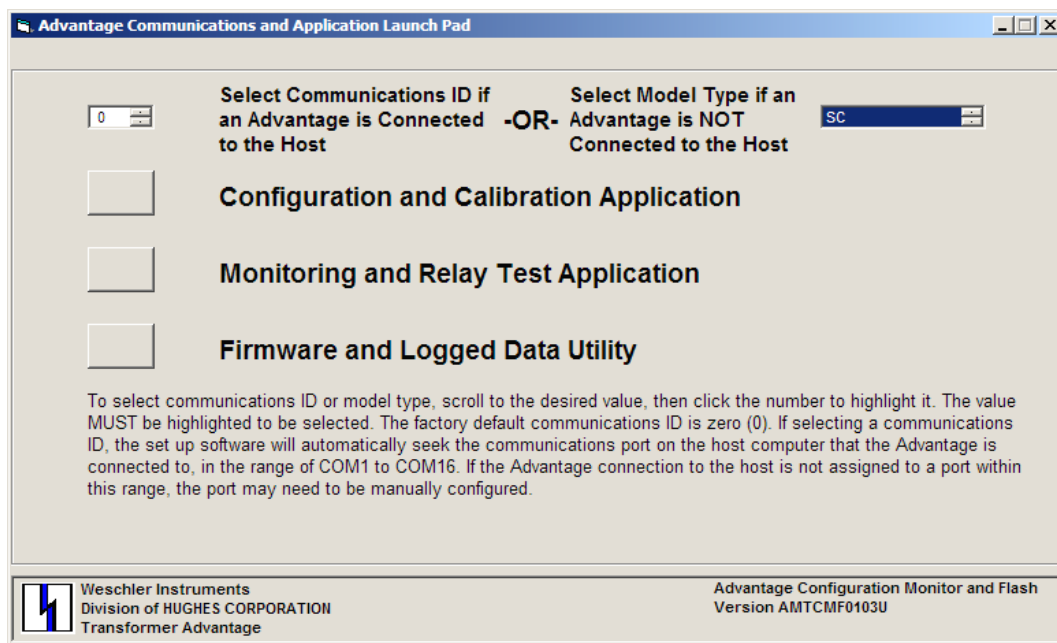
The Weschler AMT software is used to configure and monitor a Transformer Advantage from a PC. The AMT software also simplifies extraction of logged data and installation of field updates to the Advantage firmware. One software package applies to all Enhanced models. The software is compatible with Windows 98/2000/XP operating systems.

To install the AMT software:

1. Remove any previous versions of the AMT software using the 'Add or Remove Program' tool under Start / Settings / Control Panel.
2. Close any open Windows programs.
3. Run the setup.exe file in the folder containing the Weschler AMT software.

To run the AMT software:

1. Click on the AMTCMFxxx entry in the Start / Program List (xxx is the revision level).
2. The Launch Pad screen will appear.



To establish communications with the Advantage:

1. Connect the PC serial port to either communications port 1 (RJ-12) or port 2 (screw terminals) on the Advantage. The Weschler 1000001701 Serial Adapter cable plugs directly into port 1. A custom cable can be constructed using the wiring information in the back of the Operating Manual.
2. In the Launch Pad screen, scroll to the Comm ID (0-99) of the Advantage. Click on the selected value (factory default is 0). The software will begin to search all available PC serial ports. When an Enhanced Advantage is detected, the Model/Type will be displayed along with the PC's serial port number and baud rate. The Model/Type will also be shown in the upper right box (e.g. CT with LCAM).
3. If you are unable to connect, check the cable connections and the PC serial port settings (recommended settings are 57600 bps, 8 bit, no parity, 1 stop bit, no flow control).

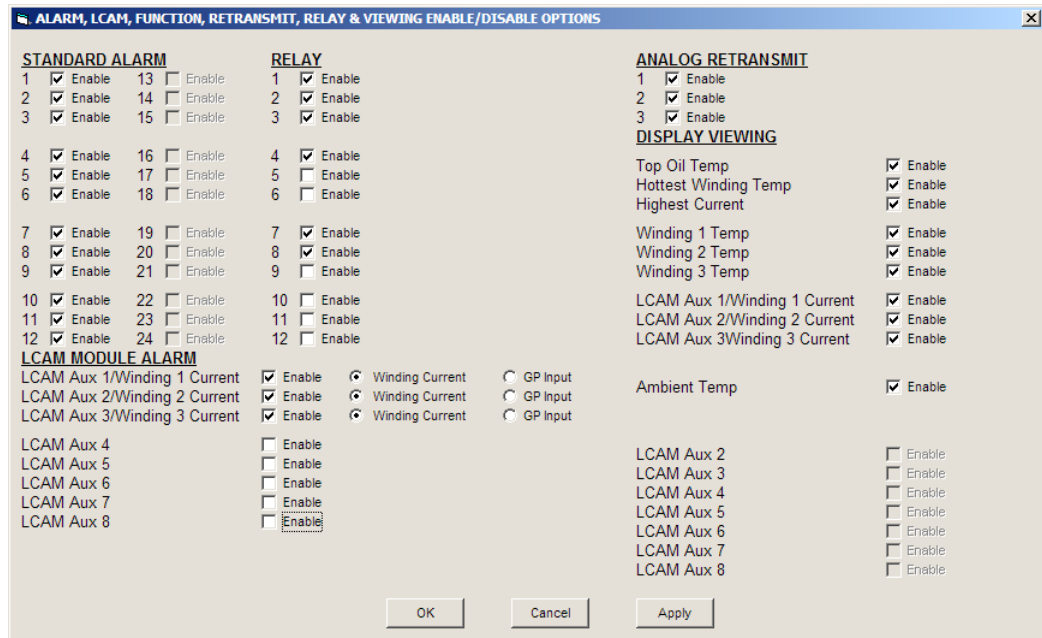
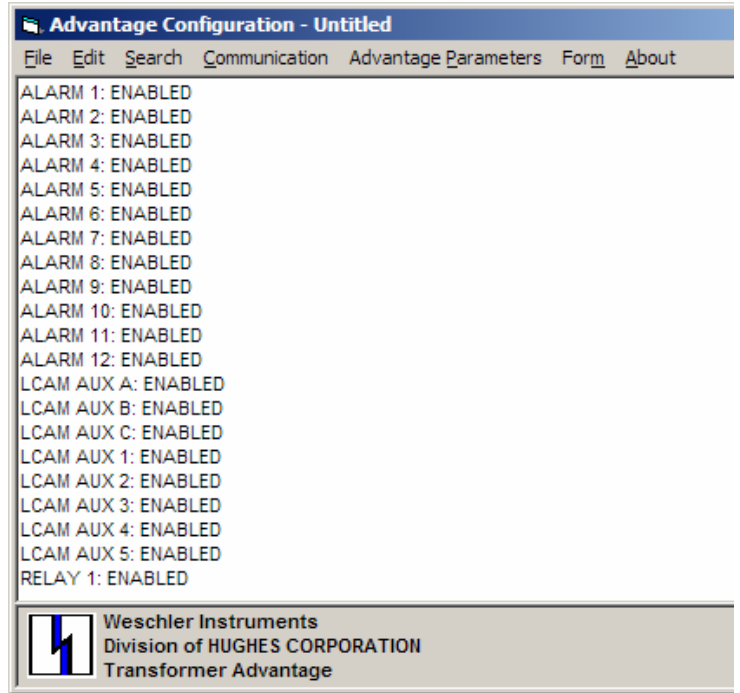
To change or archive the current configuration settings of the Advantage:

1. Open the Configuration and Calibration Application. The 'Wait- Communicating' message will flash. Reading the present setting from the Advantage takes a few seconds.
2. A list of parameter values should be displayed on the left side of the screen. If not, click on Settings in the Form pulldown.

3. To edit a settings, select the applicable item from the Advantage Parameters pulldown.
4. Update the configuration by clicking the appropriate box or entering the new value. Click Apply and close the window. Note that these changes are not saved to a file or transmitted to the Advantage yet.

Recommended sequence for setting parameter values in software:

- a. On the Alarm/Retransmit screen (see below), enable channels, alarms, relays and analog outputs that you will be using. Only Alarms and Relays that are enabled will appear in the Advantage Parameter pulldown. Also select the parameters to be displayed on the front panel (Display Viewing).
- b. On the System screen, set channel titles and other general parameters.
- c. On the Transformer screen, enter the MVA rating, type of cooling and other transformer parameters. Note that this screen appears only on CT models.
- d. Enter individual alarm values and link the alarm to a particular relay. The relay screen will automatically open when the Apply button is pressed. Enter relay settings and Apply.
- e. Configure auxiliary inputs (LCAM channels).
- f. Configure retransmit channels in the Retransmit screens.



5. When all settings are entered, save the file using a unique descriptive name via the File / Save As pulldown.
6. Send the file to the Advantage using the Communication / Send Data pulldown.
7. Close the Configuration window.

To load a previously created setup file:

1. After communications is established, open the Configuration and Calibration Application.
2. Select the File / Open pulldown and the desired .txt file. The file must be for the Advantage Model/Type that is connected (e.g. a file for a CT will not work with a CTX).
3. Select the Communications / Send Data pulldown to send the file to the Advantage.

To create a setup file without connecting to the Advantage:

1. On the Launch Pad screen, scroll to the correct Model/Type. Click on your selection to highlight it.
2. Open the Configuration and Calibration Application.
3. Edit the settings using the appropriate pulldown menus.
4. Save the file with a unique descriptive file name.

Notes for the Configuration Application:

1. Although the .txt file can be viewed in Notepad or other programs, it must only be saved or edited using the AMT software.
2. The Connected equipment parameter must be set for all enabled relays, even if not linked to an alarm. (The factory default 'Change' must be changed).
3. The Advantage real time clock is synchronized to the PC clock when Set Time is selected in the Configuration program's Communication pulldown.
4. Any scroll selection requires clicking on the selection (turn it blue) to activate it.

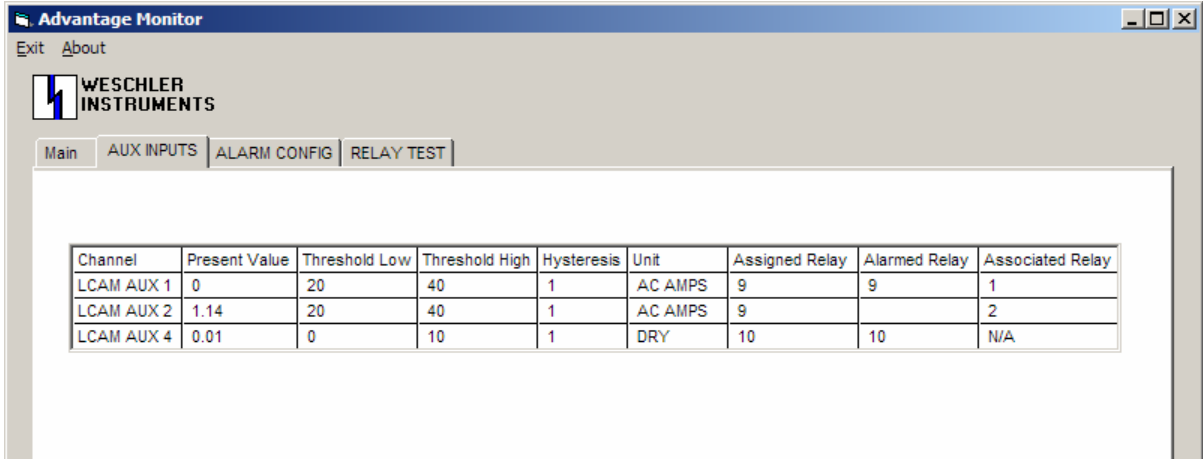
To monitor operation of the Advantage:

1. With communications established, select the Monitor and Relay Test Application in the Launch Pad window.

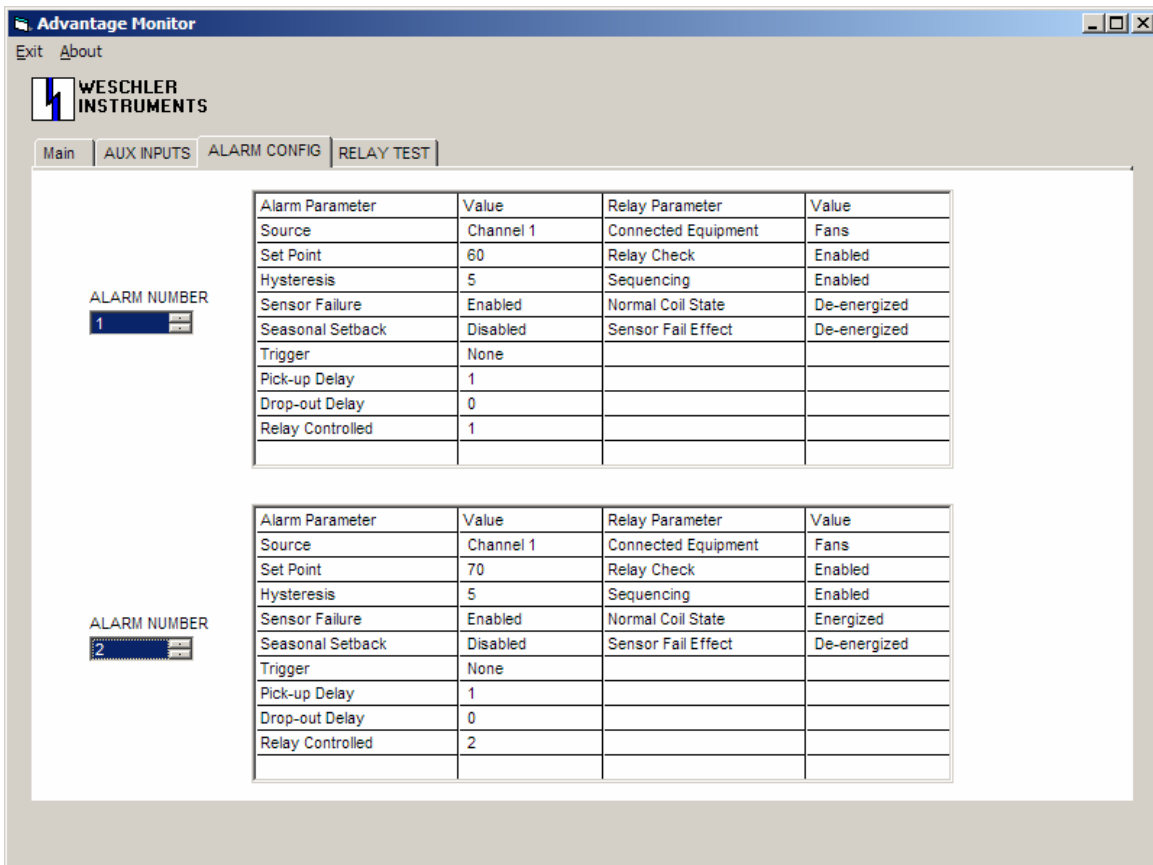
The screenshot shows the 'Advantage Monitor' application window. At the top, there is a menu bar with 'Exit' and 'About'. Below the menu bar is the 'WESCHLER INSTRUMENTS' logo. A tabbed interface is visible with 'Main', 'AUX INPUTS', 'ALARM CONFIG', and 'RELAY TEST' tabs. The 'RELAY TEST' tab is active, displaying a table with the following data:

Title	Present Value	Set Point(s)	Active Alarm(s)	Assigned Relay(s)	Alarmed Relay(s)	Peak Value	Valley Value	Reset	Reset Valley
TOP OIL TEMP	80.6	60/70/65/70	1/2/9/10	1/2/9/10	1/2/9/10	81.2	80.3		
WINDING 1 TEMP	82.6	N/A	N/A	N/A		82.7	57.2		
WINDING 2 TEMP	82.3	N/A	N/A	N/A		82.5	57.2		
WINDING 3 TEMP	82	N/A	N/A	N/A		82.6	57.2		
HOTTEST WINDING	82.6	70/80/110	4/5/12	1/2/12		82.7	57.2		
CURRENT 1	948	N/A	N/A	N/A		1056	0		
CURRENT 2	886	N/A	N/A	N/A		888	0		
CURRENT 3	841	N/A	N/A	N/A		843	0		
HIGHEST CURRENT	948	1600	6	1		1056	0		
BOTTOM OIL TEMP	71.8	5	3	3	3	72.5	0		
LTC TANK TEMP	76.1	N/A	N/A	N/A		77.1	75.8		
LTC DIFFERENTIAL	4.5	5	11	11	11	3.9	N/A		
LTC DEVIATION	4.5	N/A	N/A	N/A		3.9	N/A		
SENSE FAIL	N/A	200	7/8	8/8		N/A	N/A		

- The Main tab shows the Present, Peak and Valley values for each measured or calculated parameter. It also shows what alarms/relays are tied to that parameter and the setpoints. The Alarmed Relays column shows any that are in an alarmed condition.
- The Aux. Input tab shows the present value, alarm thresholds and assigned relays for the auxiliary inputs (LCAM).



- The Alarm Configuration tab shows details of any two alarm setups. Scroll the alarm number to view other alarms.



5. The Relay Test tab shows the current state of each relay and its source parameters. From this screen, a relay can be temporarily activated or deactivated for system troubleshooting or verification. An automatic timeout is provided in case the user fails to manually stop the test.

Relay Number	Driven By Alarm(s)	Driving Alarm Source(s)	Connected Equipment	Current State	Test Interval (Minutes)	Energize	De_Energize
1	1/4/6	Channel 1/Hottest Winding/Highest	Fans	Enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
2	2/5	Channel 1/Hottest Winding	Fans	De-enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
3	3	Bottom Oil	Fans	Enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
4	N/A	N/A	Alarm	De-enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
5	N/A	N/A	N/A	N/A			
6	N/A	N/A	N/A	N/A			
7	N/A	N/A	N/A	N/A			
8	7/8	Sensor Fail/Sensor Fail	Alarm	Enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
9		9/LCAM1/LCAM2/LCAM2	Alarm	Enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
10	10/LCAM4	10/LCAM4/LCAM4	Alarm	De-enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
11	11	Differential	Alarm	Enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>
12		12/LCAM3/LCAM5/LCAM5	Alarm	De-enr	Start 0.5	<input type="radio"/>	<input checked="" type="radio"/>



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