**LTCA PC SOFTWARE LOG**

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| **Rev 1.0** 1. Original Release |  |
| **Rev 1.01 (01/14/09)**  1. Revised tabulated report  2. Allow temp compensation calculation | Approve by Hai (01/14/09) |
| **Rev 1.02 (02/03/09)**  1. Revise time expansion using drag hair line.  2. Display time and resistance value. | Approve by Hai (02/03/09) |
| **Rev 1.03 (03/10/09)**  1. Add Resistance scale expansion  2. Add data table for LTC test | Approve by Hai (03/10/09) |
| **Rev 1.04 (04/08/09)**  1. Allow user to select screen color  2. Allow user to measure time on screen  3. Display motor current on graph | Approve by Hai (04/09/09) |
| **Rev 1.05 (06/08/09)**  1. Over-lay up to 3 records/graphs  2. Allow users to select color for graph  3. Allow users to turn on and off channels on graphic screen | Approve by Hai (06/08/09) |
| **Rev 1.06 (09/30/09)**  1. Remember trace color setting for static test  2. Include LTC Static test plan | Approved by Hai (09/30/09) |
| **Rev 1.07 (06/06/10)**  1. Allow this program to computer control WRM | Approve by Hai (05/29/10) |
| **Rev 1.08 (07/06/10)**  1. Allow this program to control LTCA | Approve by Hai (07/06/10) |
| **Rev 1.09 (09/28/10)**  1. Correct interface problem with LTCA under computer control  2. Implement Linear and Log scale on resistance graph  3. Display test current  4. capture test current and motor current from Dynamic resistance test | Approve by Hai (09/28/10) |
| **Rev 1.10 (10/29/10)**  1. Implement LTC control in software  2. Implement special test  3. Display resistance graph based on max and min data on linear scale  4. Allow user to export data to EXCEL automatically. User can set this export under “Application” | Approve by Hai (10/29/10) |
| **Rev 1.11 (11/14/10)**  1. Display Motor current in high resolution  2. Correct Special Test problem | Approve by Hai (12/24/10) |
| **Rev 1.12 (01/03/11)**  1. Increase font size on graphic mode  2. Correct Special Test problem | Approve by Hai (01/03/11) |
| **Rev 1.13 (01/24/11)**  1. Correct bug on retrieve test command | Approve by Hai (01/14/11) |
| **Rev 2.00 (03/19/11)**  1. Redesign LTCA PC Software  2. Improved graphic display  3. Generate PDF and XML files automatically  4. Allow user to generate EXCEL files automatically | Approve by Hai (03/19/11) |
| **Rev 2.01 (04/09/11)**  1. Change menu per Tamim’s input | Approve by Hai (04/09/11) |
| **Rev 2.02 (05/27/11)**  1. Correct LTC control problem from PC program.  2. Change R1, R2, R3 display back ground on LTC test  3. Add measuring tool on menu | Approve by Hai (07/07/11) |
| **Rev 2.03 (08/31/11)**  1. Capture current and resistance value with F8 command. | Approved by Hai (08/31/11) |
| **Rev 2.04 (02/10/12)**  1. Interface to TRM | Approved by Hai (02/10/2012) |
| **Rev 2.05 (06/04/12)**  1. Allow LTC and Voltage Regulator to have more than 1 neutral position  2. Display charging current on screen  3. Add timer during charging time  4. Display TRM Dynamic resistance curve  5. This PC software requires the following firmware:  TRM-20/40: Rev 1.13  LTCA-10/40: Rev 1.40 | Approved by Hai (02/10/2012) |
| **Rev 2.06 (10/18/12)**  1. Interface to TRM-203/403 | Approved by Hai (10/18/2012) |
| **Rev 2.07 (10/30/12)**  1. Graph 3-phase resistance curves  2. Turn on phase B & C curves under “Application” & “Graph” | Approved by Hai (10/30/2012) |
| **Rev 2.08 (10/22/13)**  1. Bug in equivalent resistance value at different temp.  2. Display voltage value in Dynamic resistance graph for TRMs | Approved by Hai (10/22/2013) |
| **Rev 2.09 (05/15/14)**  1. Re-design the test & repeat command  2. Simply the 3-phase LTC test table to reduce test time. | Approve by Hai (05/15/2014) |

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| **Rev 2.10 (05/30/14)**  1. Update equivalent resistor value after re-test. | Approve by Hai (05/30/2014) |
| **Rev 2.11 (07/04/14)**   1. Add Auto-Y transformer static test 2. Add Single phase auto transformer static test | Approve by Hai on (7/17/2014) |
| **Rev 2.12 (07/27/14)**   1. Found label problem on Y with no neutral test report | Approve by Hai on (07/27/2014) |
| **Rev 2.13 (09/26/14)**   1. Allow user to shift overlay graphs | Approve by Hai on (09/26/2014) |
| **Rev 2.14 (10/13/14)**   1. Add “Please Wait” message when processing graph | Approve by Hai on (10/13/2014) |
| **Rev 2.15 (05/01/15)**   1. Add auto detect COM port 2. Add 15 second sampling rate on special test | Approve by Hai on (05/01/15) |
| **Rev 2.16 (06/03/15)**   1. Add Auto detect to WRM | Approve by Hai (06/03/15) |
| **Rev 2.17 (06/06/15)**   1. PC program will not print 99 readings of a 3-phase test | Approve by Hai (06/07/15) |
| **Rev 2.18 (08/22/15)**   1. Add % error of reading during test 2. Correct vertical scaling on dynamic resistance graph 3. Remember COM port setting on last Auto-Detect. | Approve by Hai (08/22/15) |
| **Rev 2.20 (11/20/16)**   1. Edit data point not working. Correct problem | Approve by Hai (11/20/16) |
| **Rev 2.21 (8/03/2017)**  1. Interface to WRM-10P S2 | Approve by Hai & Lucio (8/3/17) |