

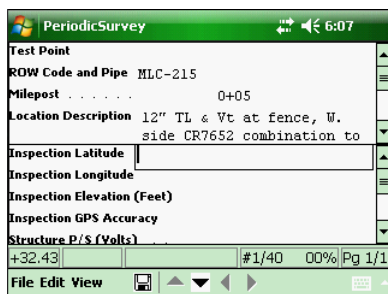
Introduction

American Innovations (AI) is pleased to announce version 4.4.0 of our Allegro MX and CX software. This document identifies updates available in software version 4.4.0. If you have questions or need additional information, or have a comment about this document, contact AI Technical Services at pcstechservices@aiworldwide.com.

Annual/Periodic Survey (PS)

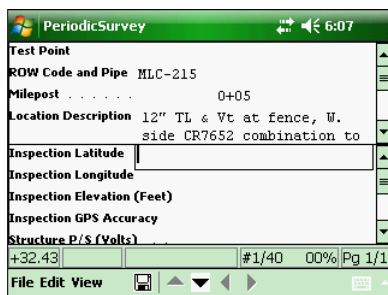
- **RFID / BETA Release (MX only)**

PS software supports RFID tag scans using the RFID reader provided by AI. RFID (radio-frequency identification) enables better asset management and easier facility identification during PS surveys. (TFS#4915, 4916, 2956)



- **Inspection GPS Fields**

PS software supports the following inspection GPS fields when included in the survey file that transfers from PCS: *Inspection Latitude*, *Inspection Longitude*, *Inspection Elevation*, and *Inspection GPS Accuracy*. Use inspection GPS fields to verify if an inspection reading has been taken at the correct location. When PS software captures GPS data with inspection readings, the software populates the inspection GPS fields without overwriting existing GPS data that may be present in the information fields of the survey file. (TFS#2954, 2955)

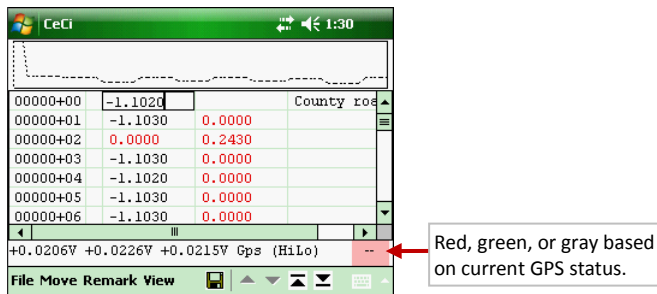


Close Interval (CeCI), DC Voltage Gradient (DCVG)

■ GPS Status Indicator

“G” icon representing GPS status in the status line of a survey file has been enhanced as follows:

- red when GPS signal is blocked or data is invalid
- green when valid GPS data is received
- gray when GPS is off



DaqDLL

DaqDLL has been updated to correct DCV autoranging when using amps measurements in DVM and PeriodicSurvey.

Release History

4.3.2 / July 27, 2011

Enhancement Defect Resolution (Highlights – refer to release notes for comprehensive list).

MX CAB Installation of KeyRedirect

KeyRedirect.exe installs in the Program Files folder with the shortcut installing in the Windows Startup folder.

Close Interval (CeCI), DC Voltage Gradient (DCVG)

- HiLo Fallback Time: increased from 10 to 60 seconds.
- On/Off Readings in GPS Sync Mode: repeated readings no longer occur during a fast cycle survey.
- Voltages in DCVG tab (DCVG only): autoranging no longer occurs when recording live voltages.
- CeCi Shortcut Keys: new shortcut keys added to enhance operation when using the MX with the touchscreen disabled.

Annual/Periodic Survey (PS)

- HiLo Fallback Time: HILO displays in the status bar 60 seconds after losing the PPS timing signal when the survey file is setup in GPS Sync on/off mode.
- 20mV Minimum Range: support for a minimum DVM range of 20mV during autoranging.
- Fonts Command: located in the Fonts tab of the Options window.
- Validating On/Off Time Settings: incorrect time settings in the On/Off tab display an error message that includes a suggested setting with a calculated minimum value inside parentheses.
- Timed Readings and Allegro Power Setting: when PS is running an active Timed Readings session, Power Settings no longer turn off the Allegro.
- PS Shortcut Keys: new shortcut keys added to enhance operation when using the MX with the touchscreen disabled.

Digital Voltmeter (DVM)

- 20mV Minimum Range: supports a minimum range of 20mV.
- Graph Width (Time): entered graph width value is correctly applied.
- GPS Startup After Power/Resume Event: automatically restarts after a power/resume event.
- DVM Graph Settings After Power/Resume Event: display correctly in the graph after a power/resume event.
- Voltage Range: selected voltage range displays in the status line of the DVM graph.
- DVM Shortcut Keys: new shortcut keys added to enhance operation when using the MX with the touchscreen disabled.

GPS Status

- GPS Startup: automatically restarts after a power/resume event occurs.
- GPS Port Message: exit and restart GPS Status when the following message displays: Unable to open GPS port COM3 (-2317).
- DVM Shortcut Keys: new shortcut keys added to enhance operation when using the MX with the touchscreen disabled.

Release History

4.3.1 / March 14, 2011

Enhancement Defect Resolution (Highlights – refer to release notes for comprehensive list).

Updates

- 4050 DAQ Card Voltage Range: Based on the version number of the 4050 DAQ card, AI Allegro applications read and set the maximum voltage as 150V or 250V.
- CeFileXfer.exe (MX only): Is now compatible with Allegro MX units that ship with an SD Card.
- Chainer Pulse Count in CeCi: Properly increments when navigating between CeCi windows or opening another application when running CeCi.
- DVM Graph Range: The DVM graph now retains the last upper and lower voltage range set by the user (*Start > AiDvm > Graph*).

Allegro System

- Maximum Voltage Range: Maximum voltage range of 150 VAC/DC is supported by all applications.
- Nonvolatile Storage Location: Determined by operating system for MX. Remains the same for the CX.

DC Voltage Gradient (DCVG), Close Interval (CeCi)

- CISM Tab Description: Renamed as *Survey*.
- Survey File Options: To set optional settings, tap *View > Options* or press *O* on the Allegro keyboard.
- Beep for Voltages Option: Use the option to set a notification for an IR gradient that exceeds the user-entered value.
- Colors: Is now a tab selection in the *Options* window.
- Segment Field Character Length: Accepts a maximum of 35 characters including spaces.
- Up/Down Arrows in Circular Navigation Pad: Moves the cursor to the previous and next record in an open survey file set up in flagged mode.
- Function Keys (MX only): *F1* through *F5* and *F9* function keys have been restored and now operate the same as CX function keys.
- Test Point Info Selection List: *Side Drain* has been added in the selection list.
- PS Value Resolution: Values save and display with a 0.1mV resolution (such as 1.1234) in SVY, CSV, DBF, and PLY files. Absolute values less than 0.0001 are considered to be zero.
- Retain Skipped Records in Skip Mode: Has been removed from the DCVG software. In CeCi, the option has moved to the *File* tab in *Options*.
- Overwrite Indicator Option: When enabled, Allegro beeps twice to indicate existing data in a survey record is being overwritten with changed data.

- Site Locator Window: If survey record includes GPS coordinates, tap Show bearing to site to display Site Locator window. Tapping inside a GPS field also displays the window.
- Defect Fields in Test Point Info (DCVG only): *Defect* field renamed *Indication*. *Defect #* field renamed *ID*. New *Type* field is available for selecting the type of indication.
- Beep on Every Reading Option (DCVG only): Now available for selection in the *Misc* tab of *Options*.
- V Buttons for Recording Voltages (DCVG only): Use *V* button in *DCVG* tab of *Properties* to record measured and calibrated voltages.
- Esc and Enter Buttons (DCVG only): When showing live readings, (1) press *Esc* to stop calibration readings and restore original values, or (2) press *Enter* to stop calibration readings and hold current values. When not showing live readings, (1) press *Esc* to close window and not return new values or, (2) press *Enter* to close window and return new values.
- Remark Field (DCVG only): displays indication ID name, type, signal strength, and survey values inside parentheses.
- Indication Type (DCVG only): identify the identification type with any one of the following selections: cathodic/anodic, anodic/cathodic, anodic/anodic, or cathodic/cathodic.
- Skip/Lock and Pause (DCVG only): No longer available in DCVG.
- Indication Summary Line in List View (DCVG only): view information that displays outside viewable area by tapping the record; using the up/down arrow buttons to navigate to an indication; placing the cursor inside the summary line; and pressing the right arrow button to move to the end of the summary line to view data.
- Display Graph Window (CeCi only): Tapping the graph in a survey file displays the *Graph* window when the file is setup with the *Show Graph* option. Tapping *View > Options > Graph* also displays the window.

GPS Status (GpsStatus)

- COM Ports COM9 – COM16: Additional COM ports *COM9* through *COM16* have been added in the *Port* selection list in *Options* (*GpsStatus > Options*).
- GPS Port Error Message: If the GPS port cannot open or the GPS antenna is disconnected, the error message *Unable to open GPS port COMx* displays.
- Age of Fix: New *age of fix* fields display below coordinates showing the amount of time since the last GPS satellite fix ten (10) seconds after the Allegro loses the GPS signal.
- Paste GPS Coordinates in Ptab (CX only): Press <CTRL> <F5> on the Allegro keyboard to paste GPS coordinates in a PTab file.

PRODUCT SUPPORT & TRAINING

If you need assistance with the upgrade or Allegro, have a feature request or bug to report, or have a comment or suggestion about this document, your feedback would be appreciated. Also, if you have a training need for your organization or would like to know more about upcoming Allegro training classes, please use any of the following contact information to reach Technical Services:

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