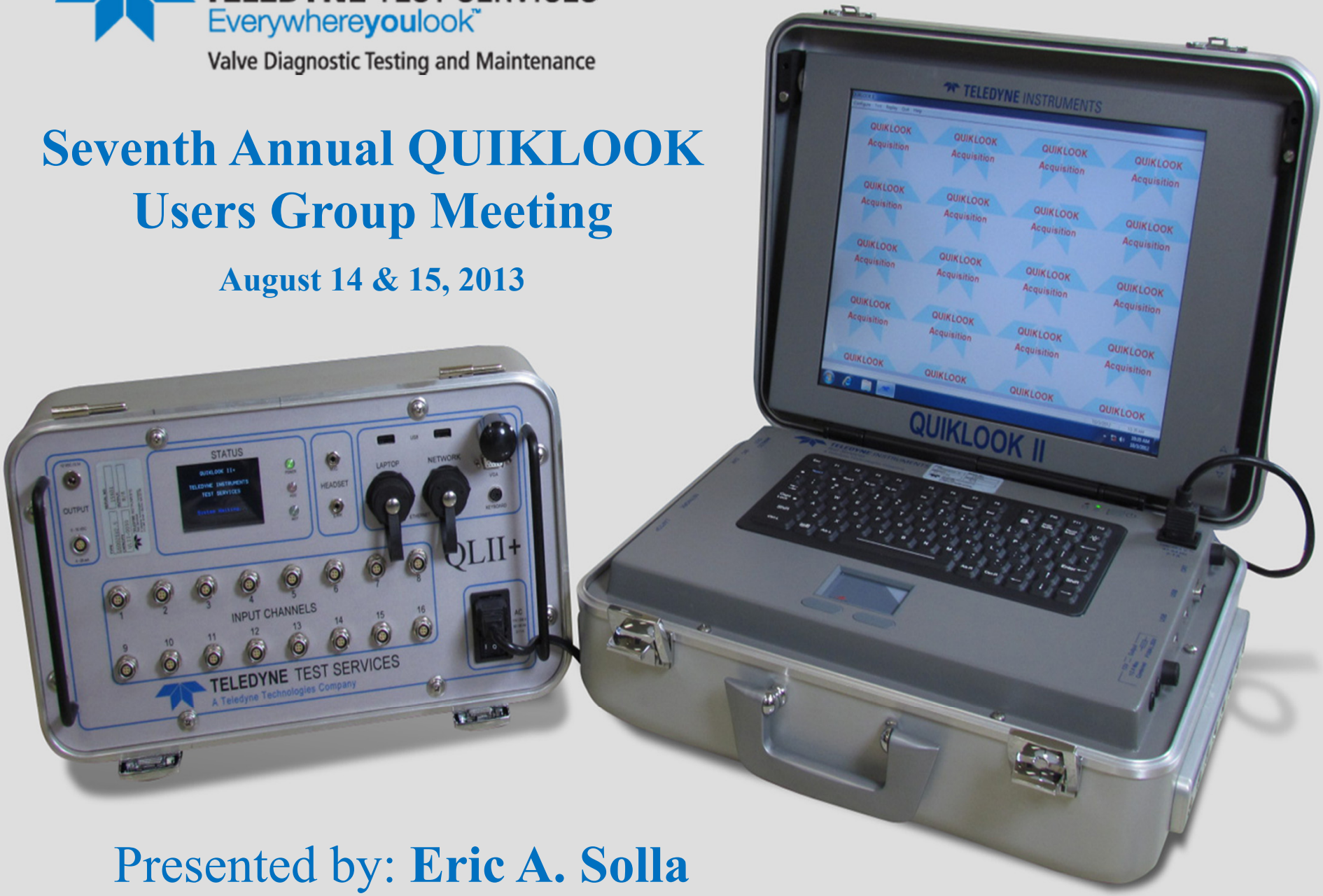
TELEDYNE TEST SERVICES
Everywhereyoulook™
Valve Diagnostic Testing and Maintenance

Seventh Annual QUIKLOOK Users Group Meeting

August 14 & 15, 2013



Presented by: **Eric A. Solla**

TELEDYNE TEST SERVICES
Everywhereyoulook™
Valve Diagnostic Testing and Maintenance

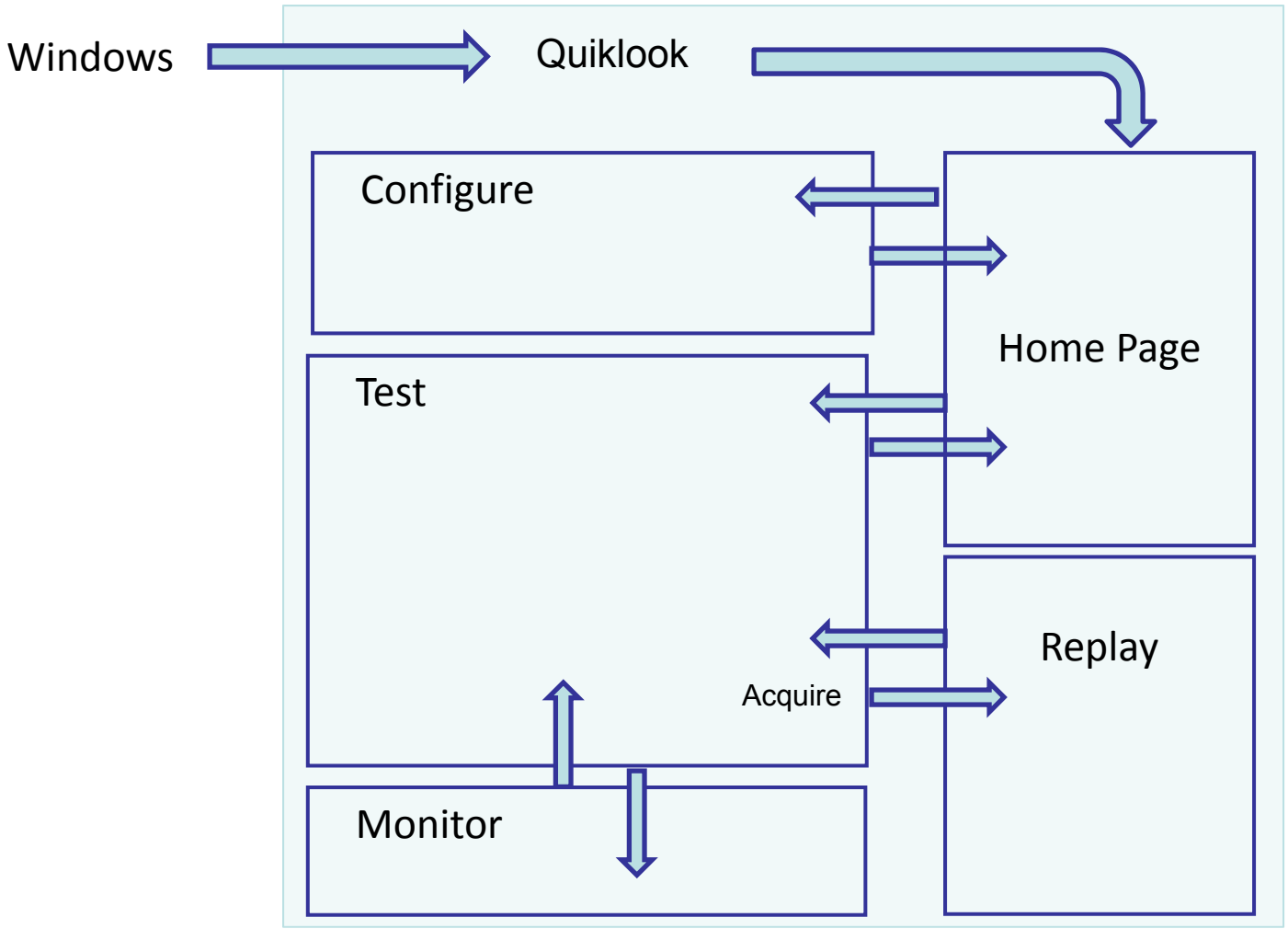
QUIKLOOK 3

SOFTWARE

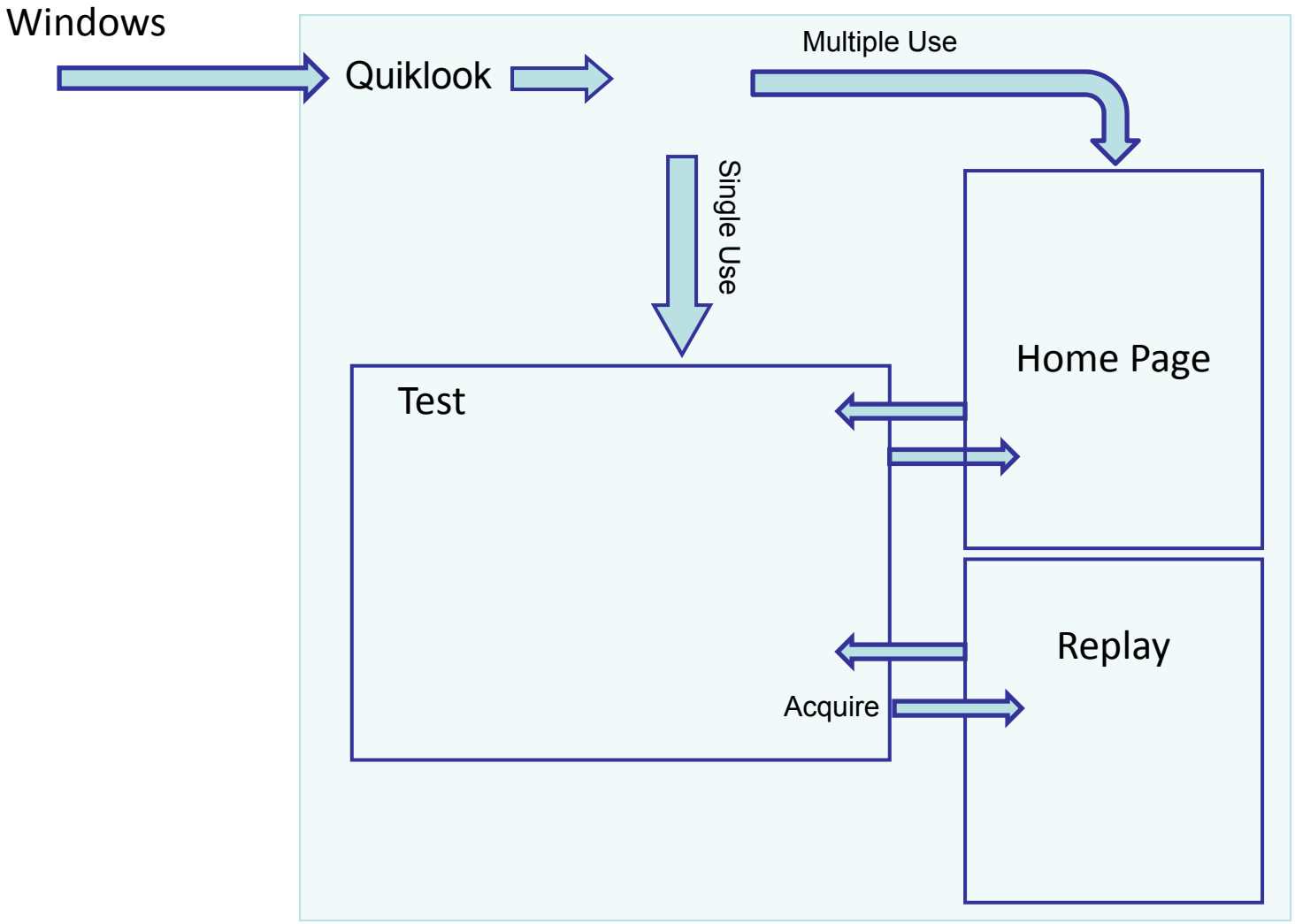
New Program Features

Software Engineer
Eric A. Solla

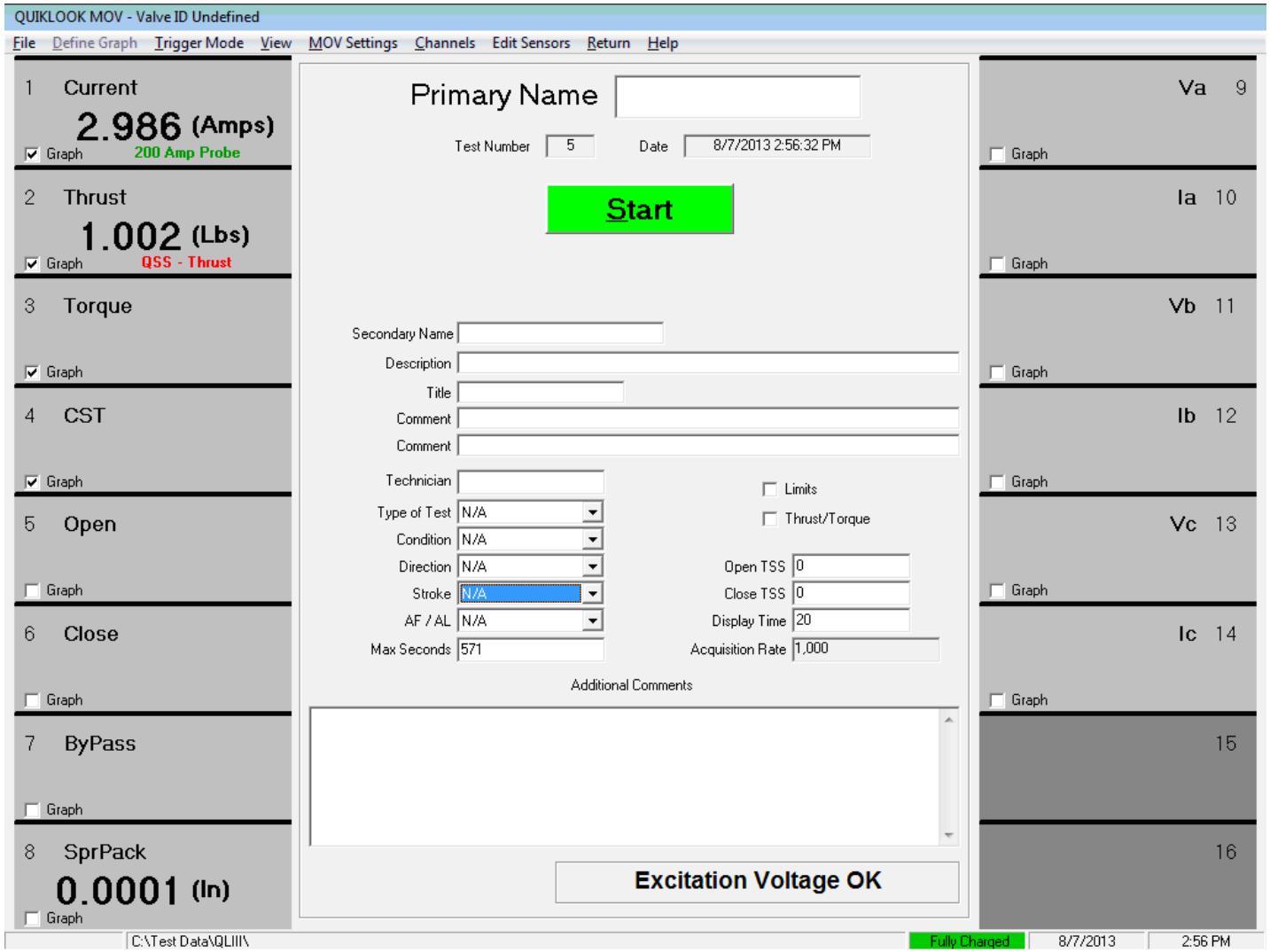
QUIKLOOK II Software



QUIKLOOK 3 Software



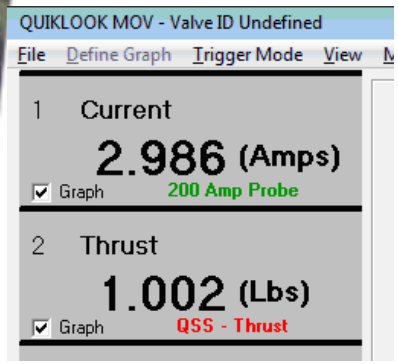
QUIKLOOK 3 Software
Acquisition Screen



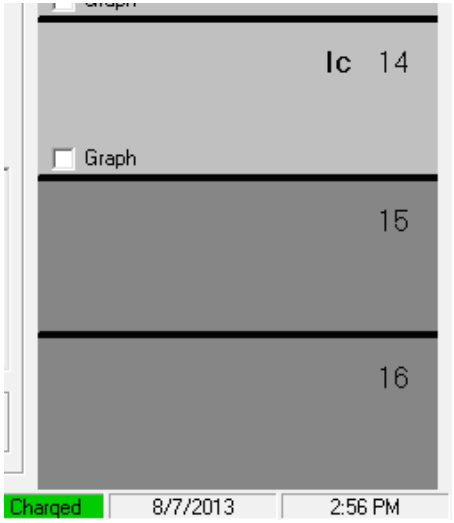
QUIKLOOK 3 Software

TEDS – Transducer Electronic Data Sheet

IEEE Standard - IEEE P1451.4/2.0

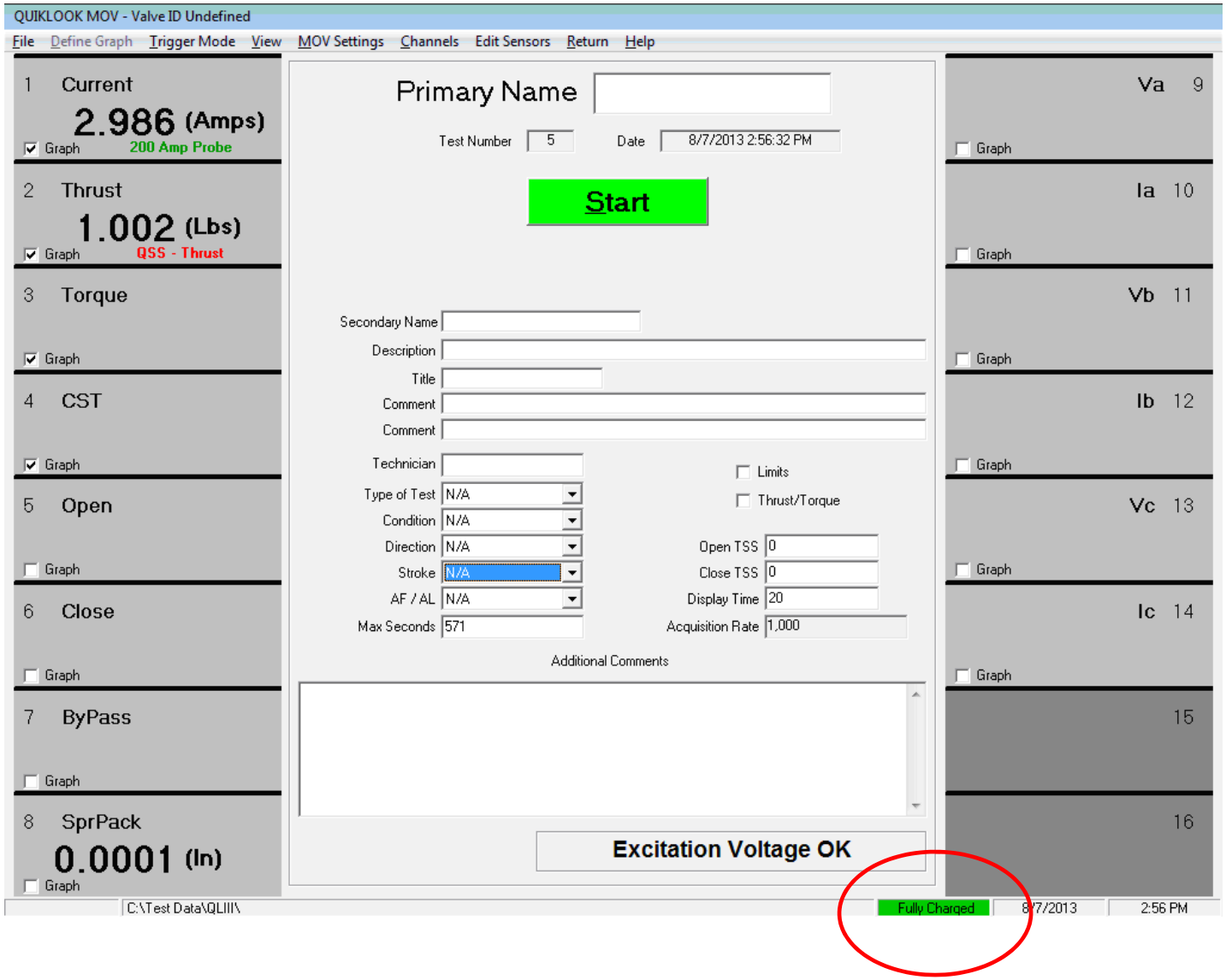


- All Sensors will have a TEDS Chip
- TEDS Chip may contain all - none of the configuration data.
- When sensor is present Channel Values and Units Appear
- Sensor Description is Shown
  - Green – All sensor data is on chip no further configuration is necessary
  - Red – Some configuration data is missing. Configuration should be reviewed
  - Black – Configuration has been reviewed



- Dark Gray Box – Channel Inactive
- Light Gray Box - Channel Active
- Red Box – Channel is Over Ranging
- Channel Name Shows for Active Channels
- Channels without Sensors will Not be Acquired and will be Turned Off

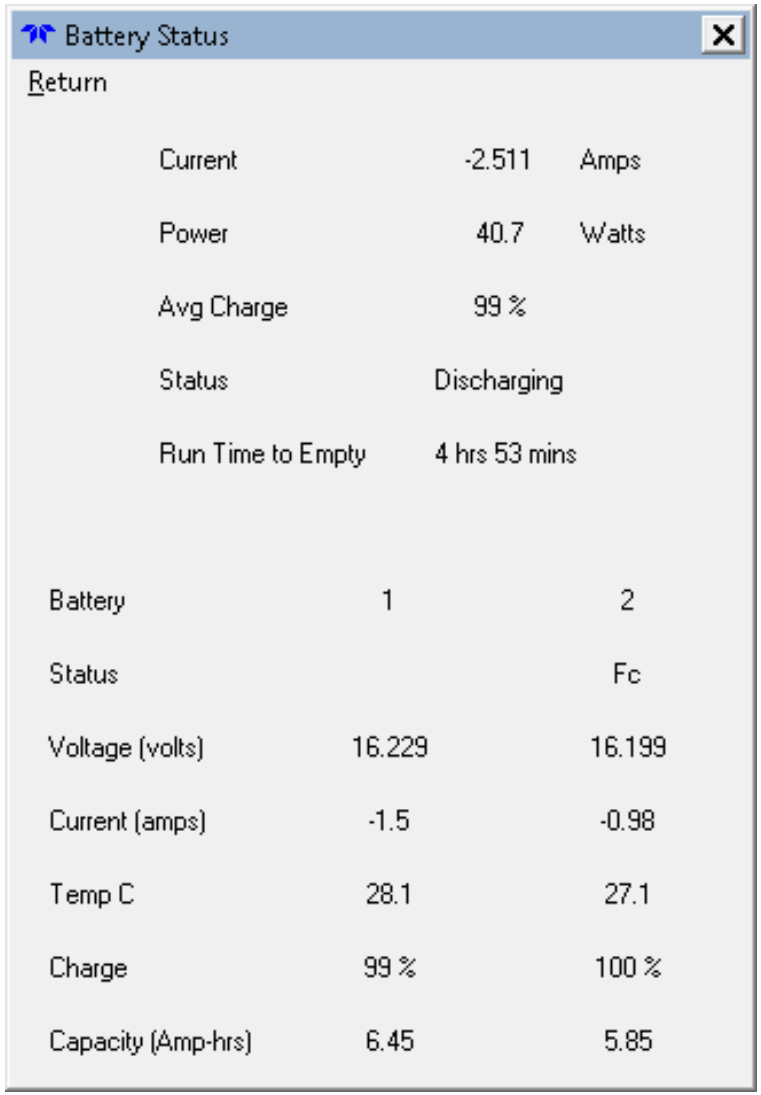
QUIKLOOK 3 Software
Acquisition Screen



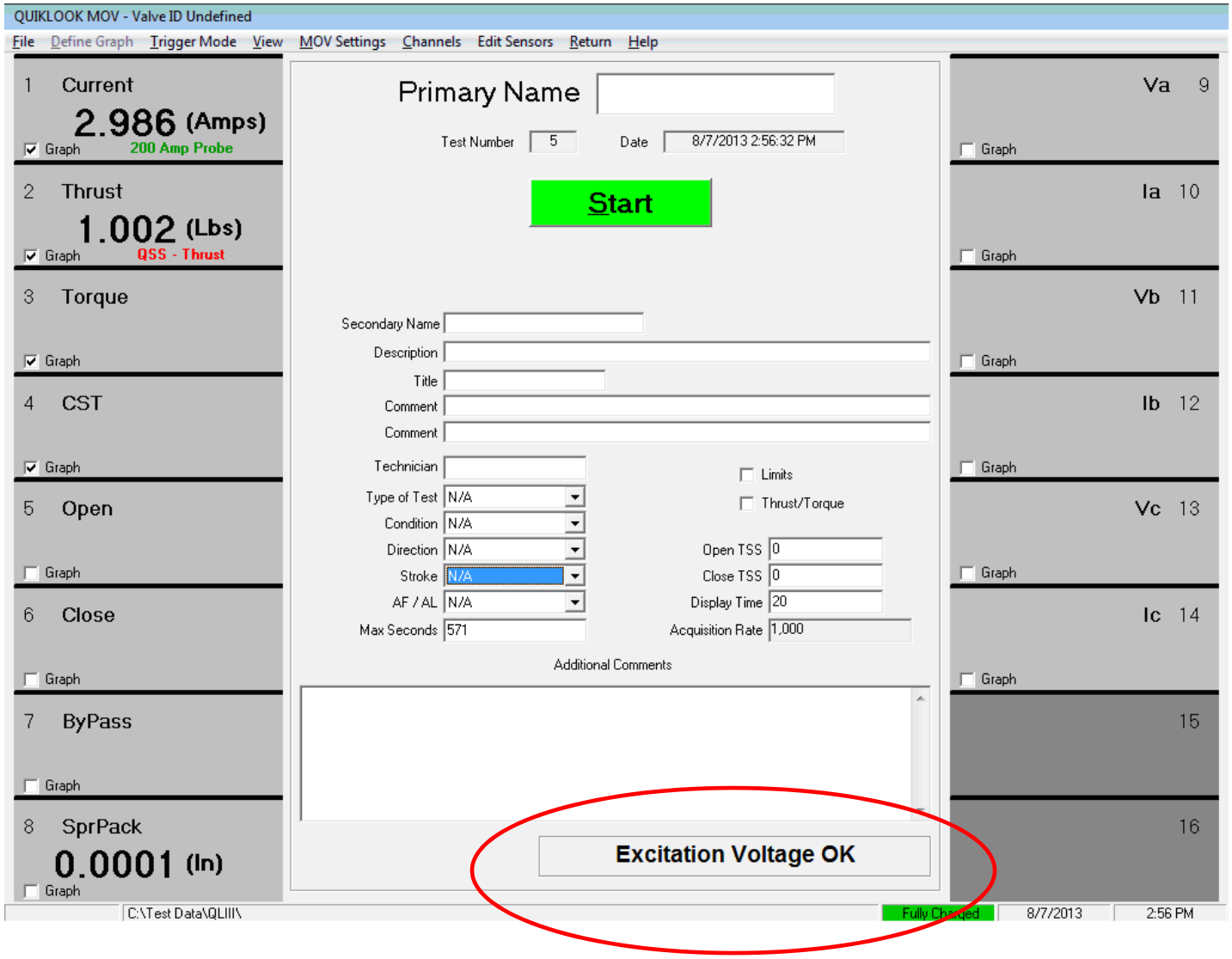
QUIKLOOK 3 Software

Battery Status

- Run Time to Empty
- Battery Status:
  - Voltage
  - Current
  - Charge
  - Capacity
  - Temperature



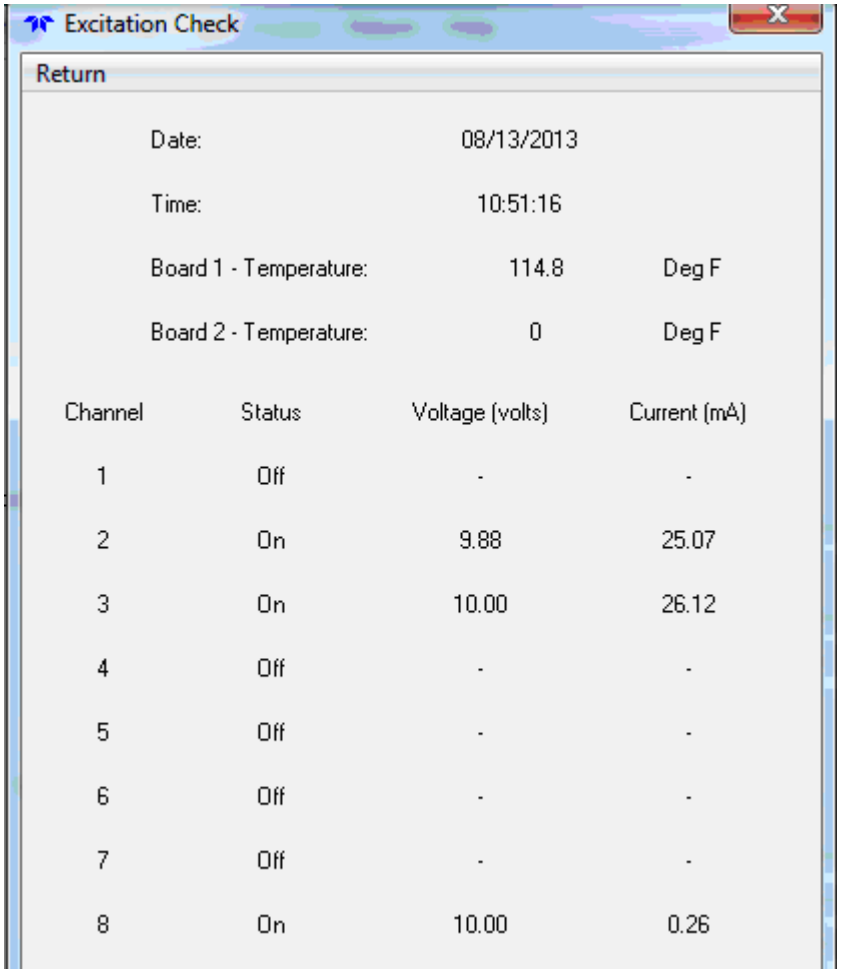
QUIKLOOK 3 Software
Acquisition Screen



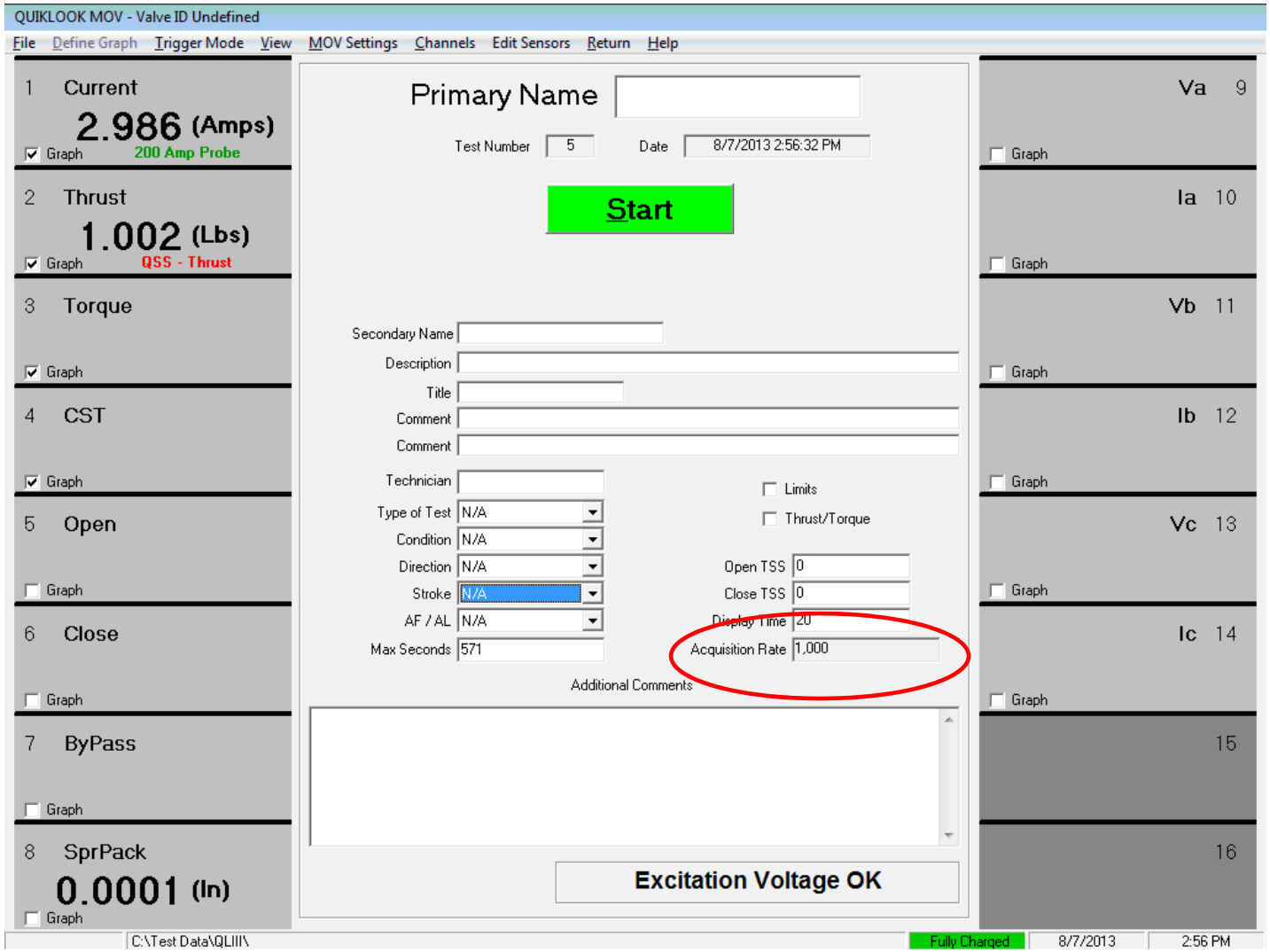
QUIKLOOK 3 Software

Excitation Check

- Each Channel has independent Excitation
- Shorting out one channel will not effect the others
- Only Channels with Excitation are Checked
- Board Temperatures are shown
- Excitation Voltage
- Excitation Current



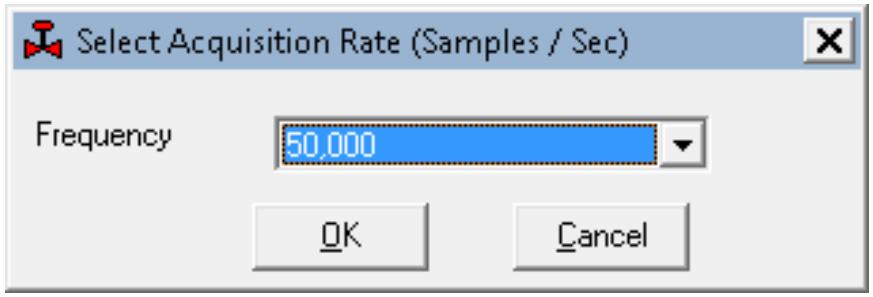
QUIKLOOK 3 Software
Acquisition Screen



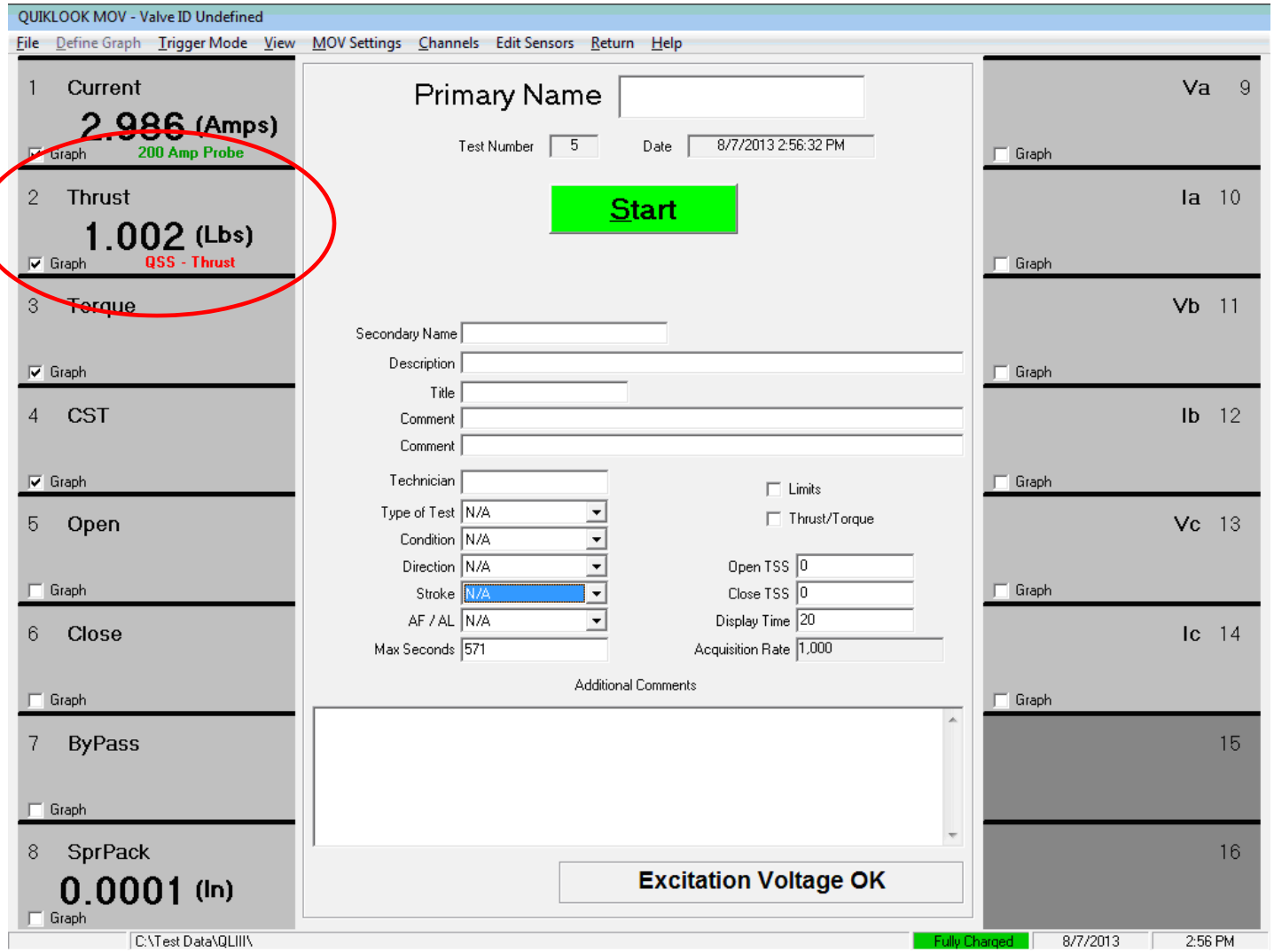
QUIKLOOK 3 Software

Available Acquisition Rates

- 10 Hz (AOV Default)
- 25 Hz
- 50 Hz
- 100 Hz
- 200 Hz
- 500 Hz
- 1,000 Hz (MOV Default)
- 2,000 Hz
- 5,000 Hz
- 10,000 Hz
- 20,000 Hz (CV Default)
- 50,000 Hz
- 100,000 Hz (Optional)
- 200,000 Hz (Optional)

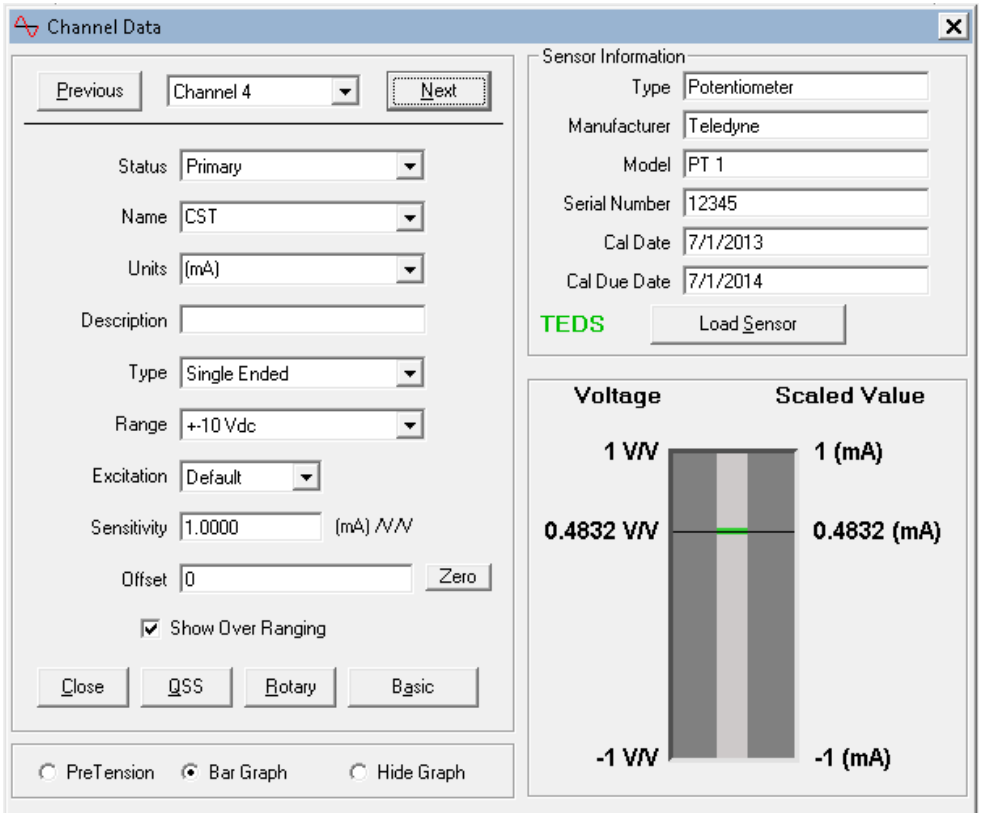


QUIKLOOK 3 Software
Acquisition Screen



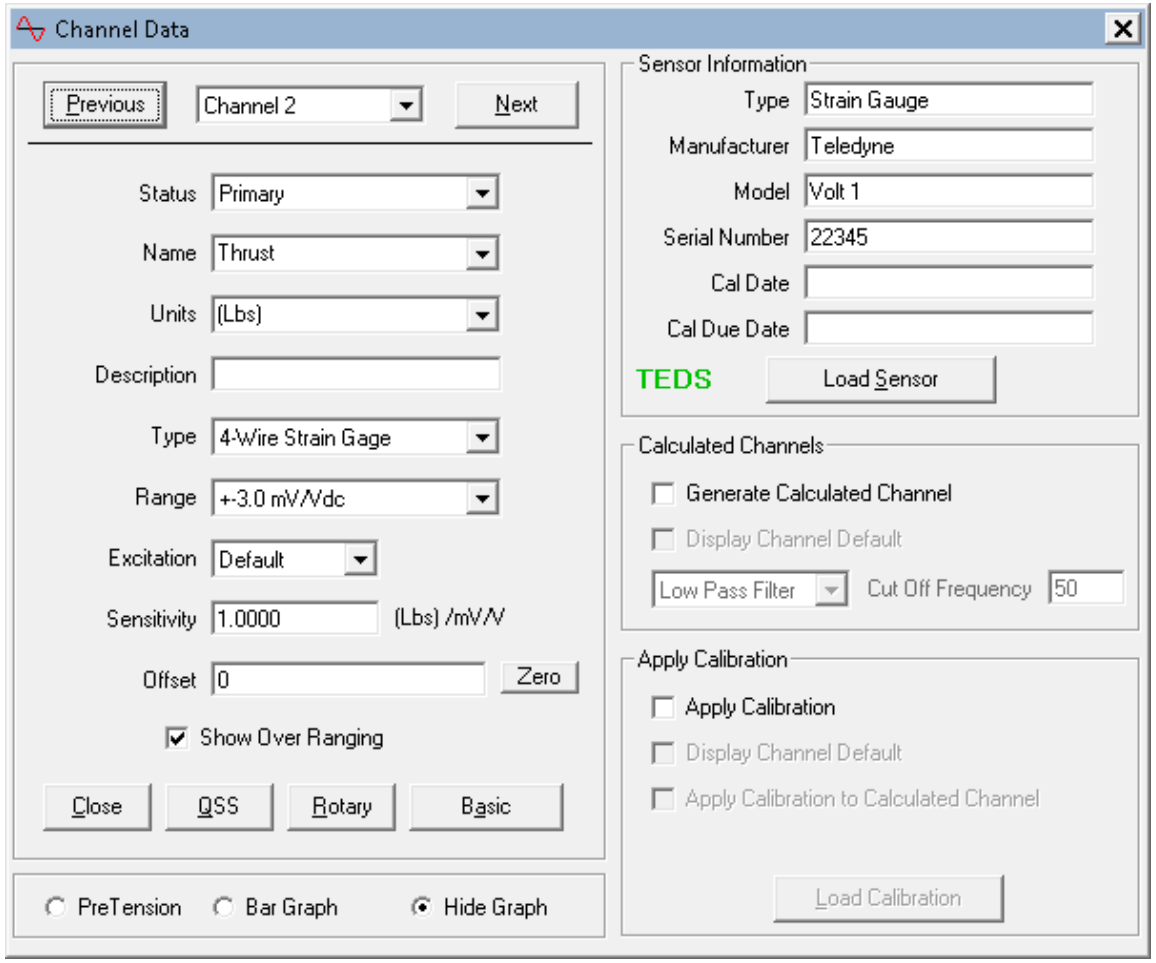
QUIKLOOK 3 Software
Channel Setup

- Same Basic Setup Form as Previous Versions
- Information fill in by TEDS:
  - Same as “Load Sensor”
  - Type
  - Range
  - Excitation
  - Sensitivity
  - Sensor Information
- Graph showing live values
- Actual Voltage on left
- Scaled values using setup on right
- Green band shown representing noise band
- (Peak to Peak values for current)
- Zero button next to offset to zero channel



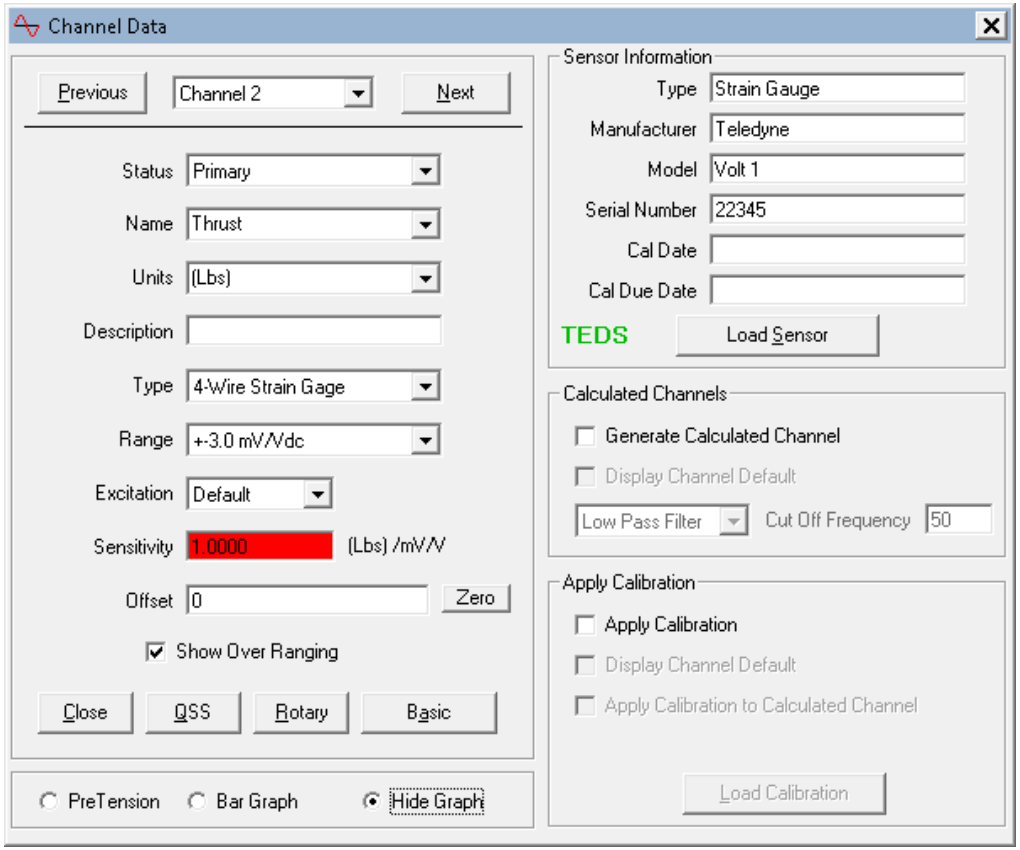
QUIKLOOK 3 Software
Channel Setup

- Hide Graph
  - Gives access to Calculated Channels (MOV only)



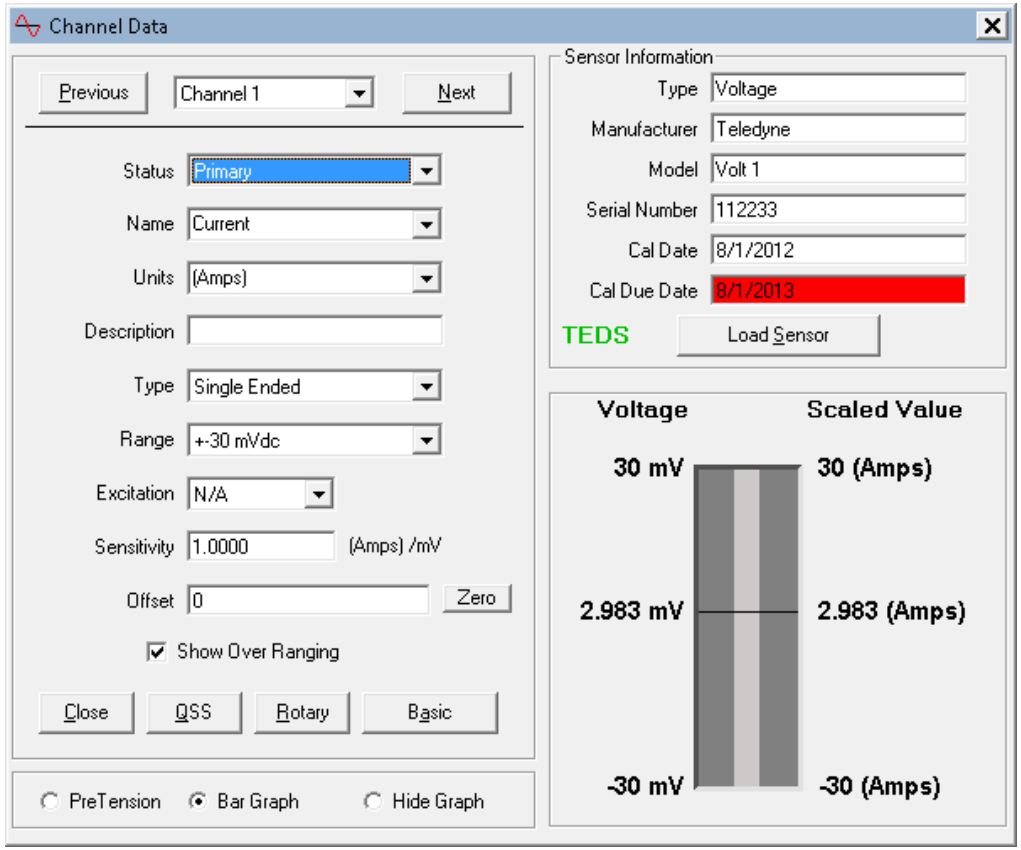
QUIKLOOK 3 Software
Channel Setup

- Red on Sensitivity Field indicates that setup information was not on the TEDS chip
- Red background will only appear on first review
- After review TEDS description on main form will turn Black



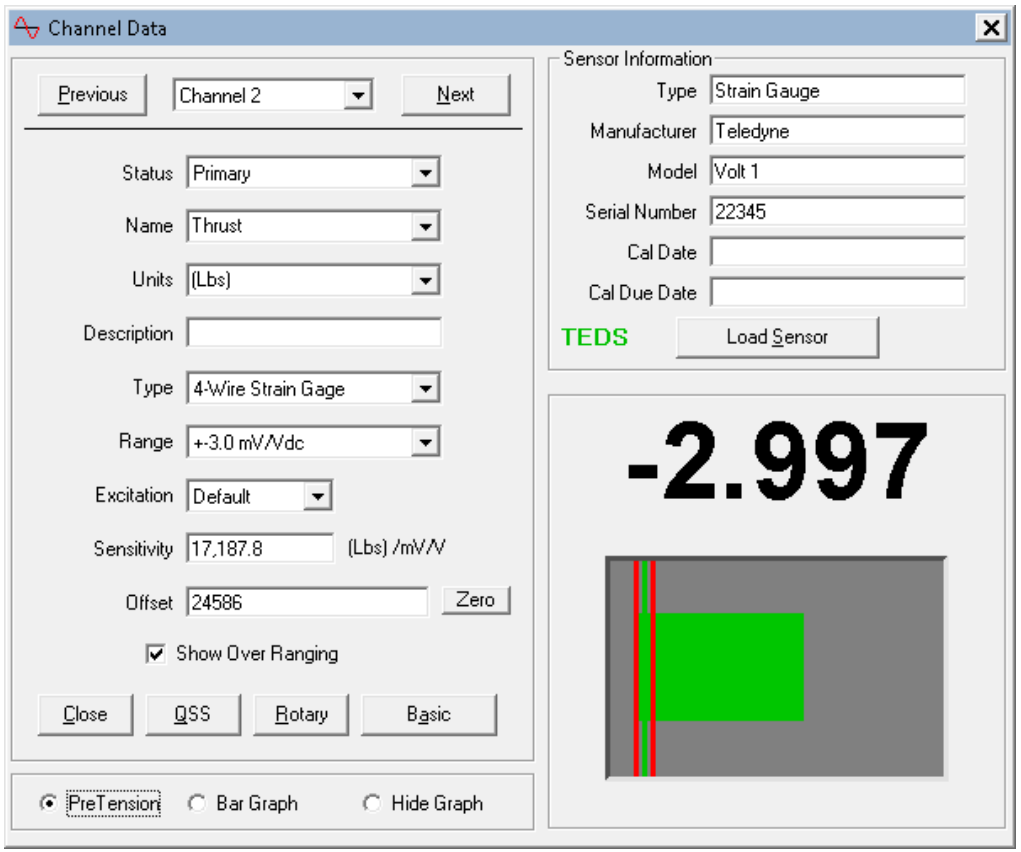
QUIKLOOK 3 Software
Channel Setup

- An out of date calibration will also cause a Red Flag
- This Red Flag will not go away and will remain on main screen

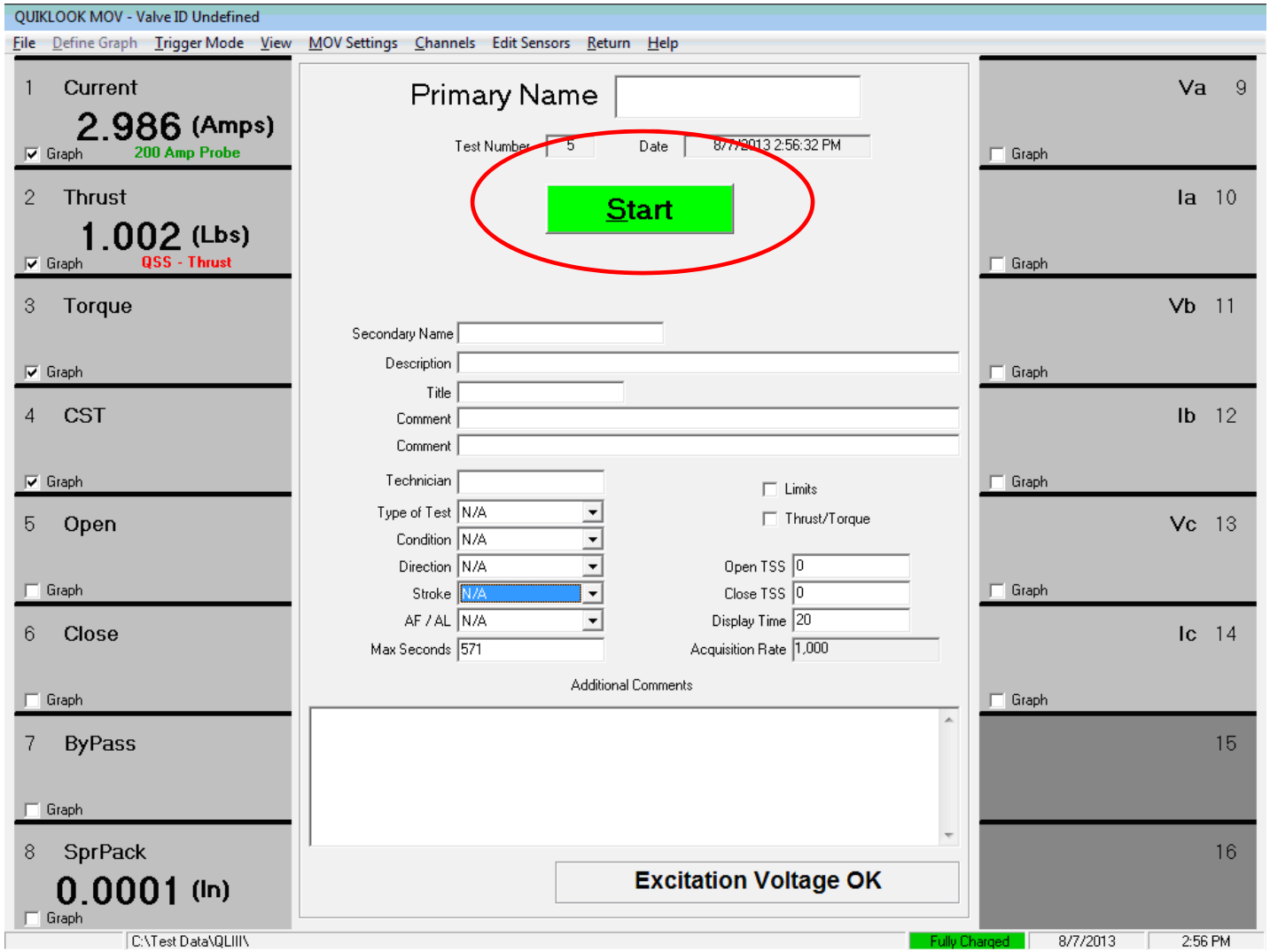


QUIKLOOK 3 Software
Channel Setup

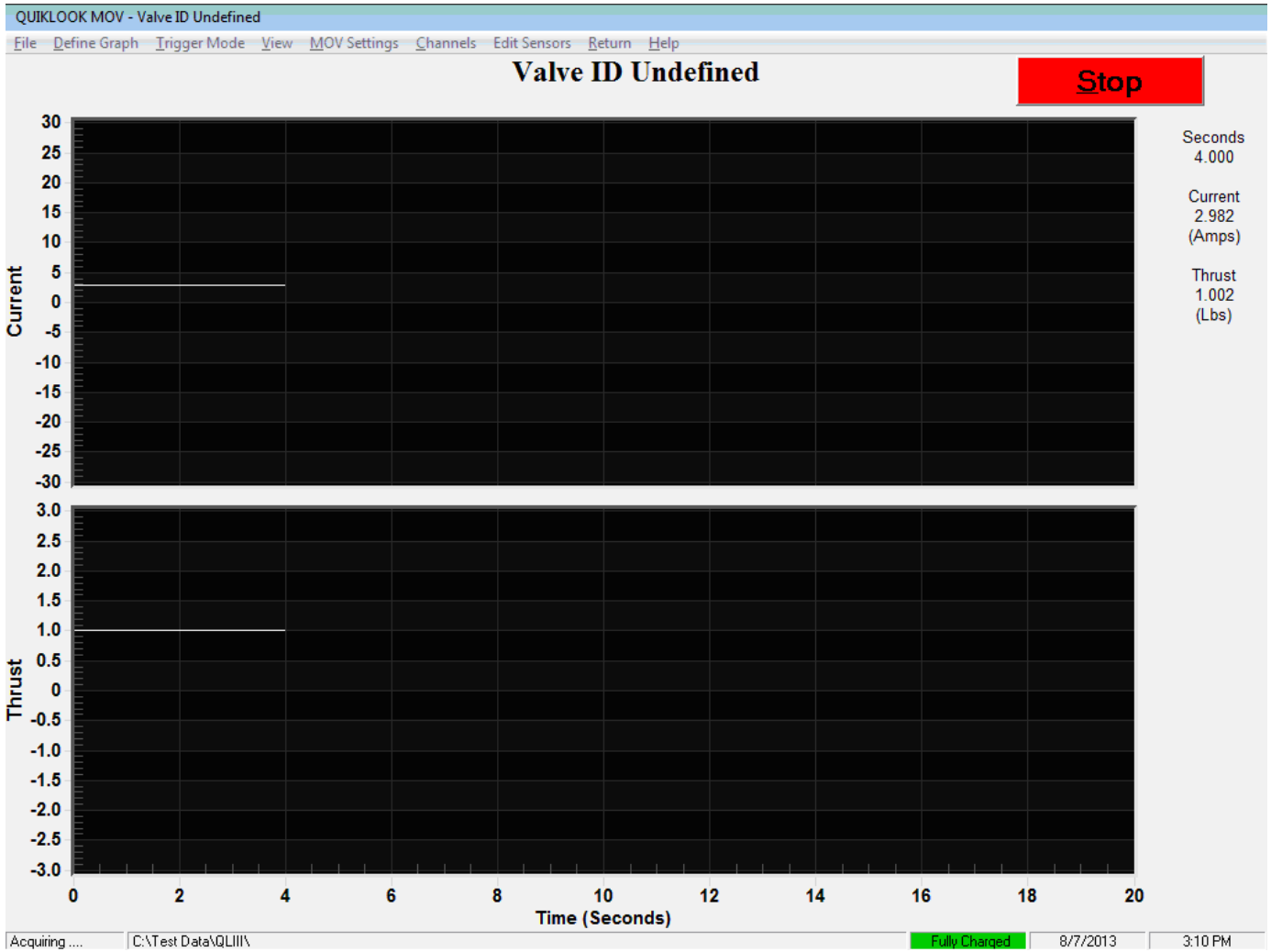
- PreTension Graph (C Clamps)
- Same as Monitor Screen in QLII
- Turns Green between -2.7 & -3.0 mV/V



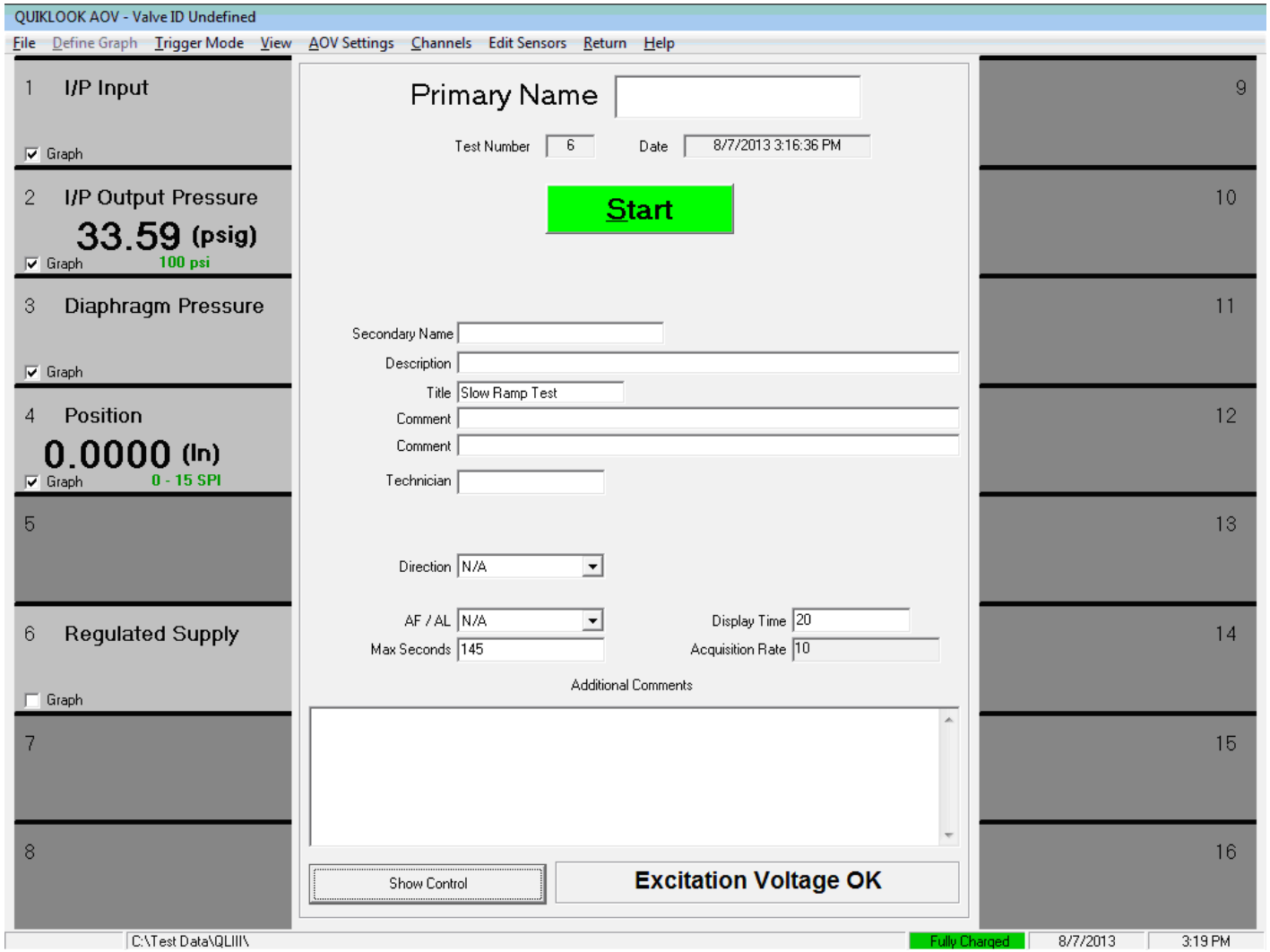
QUIKLOOK 3 Software
Acquisition Screen



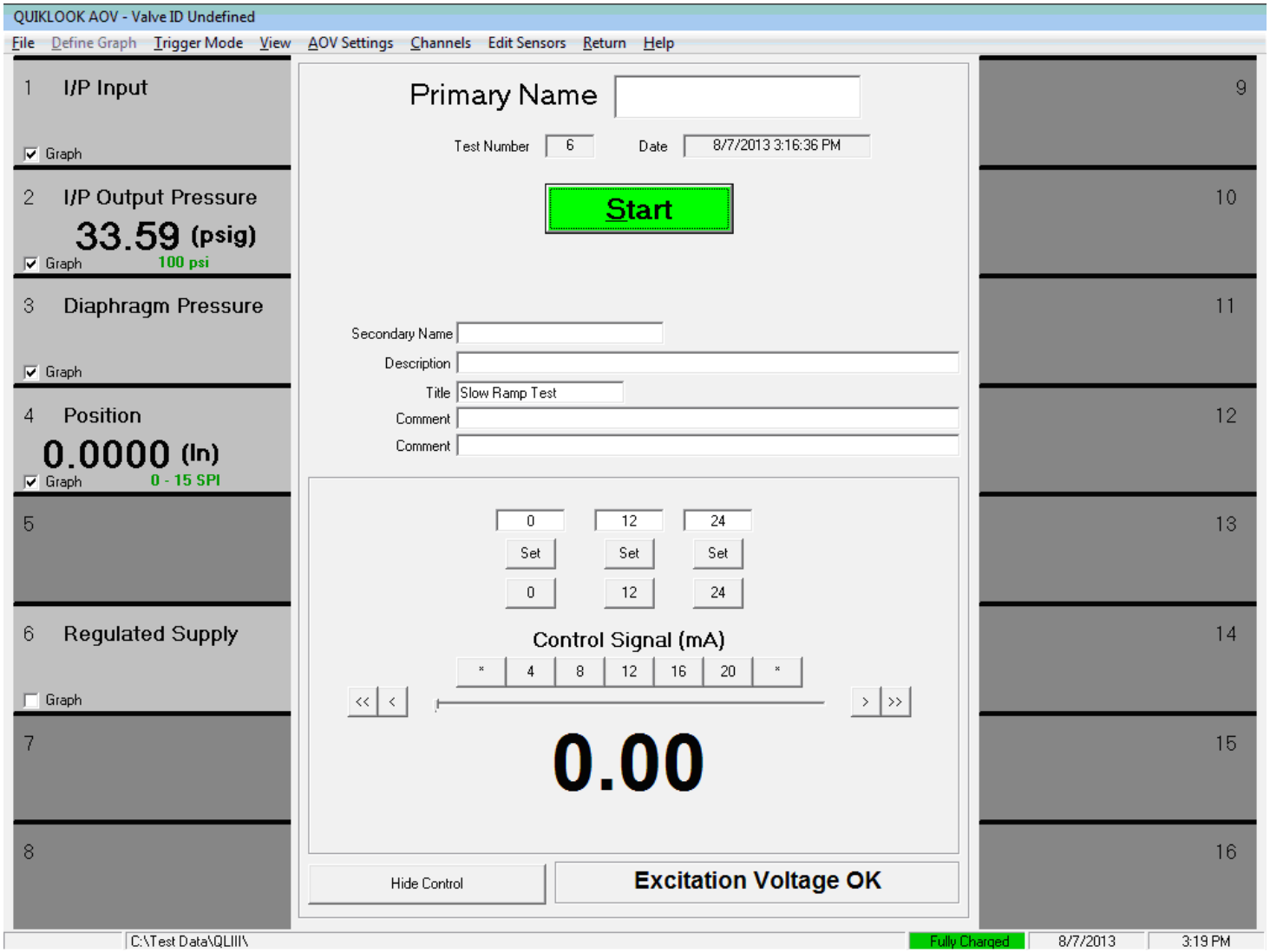
QUIKLOOK 3 Software
Acquisition Screen



QUIKLOOK 3 Software
Acquisition Screen



QUIKLOOK 3 Software
Acquisition Screen - AOV



QUIKLOOK 3 Software
Acquisition Screen - AOV

QUIKLOOK 3 Software

Embedded Windows

Advantages:

- Increased Virus & Malware Protection
- Only necessary programs and services will be installed
- System will run faster
- System will always reboot to the same state each time.

Disadvantages:

- Upgrade to system will be more difficult
- System will no longer act as a computer but will be a piece of test equipment

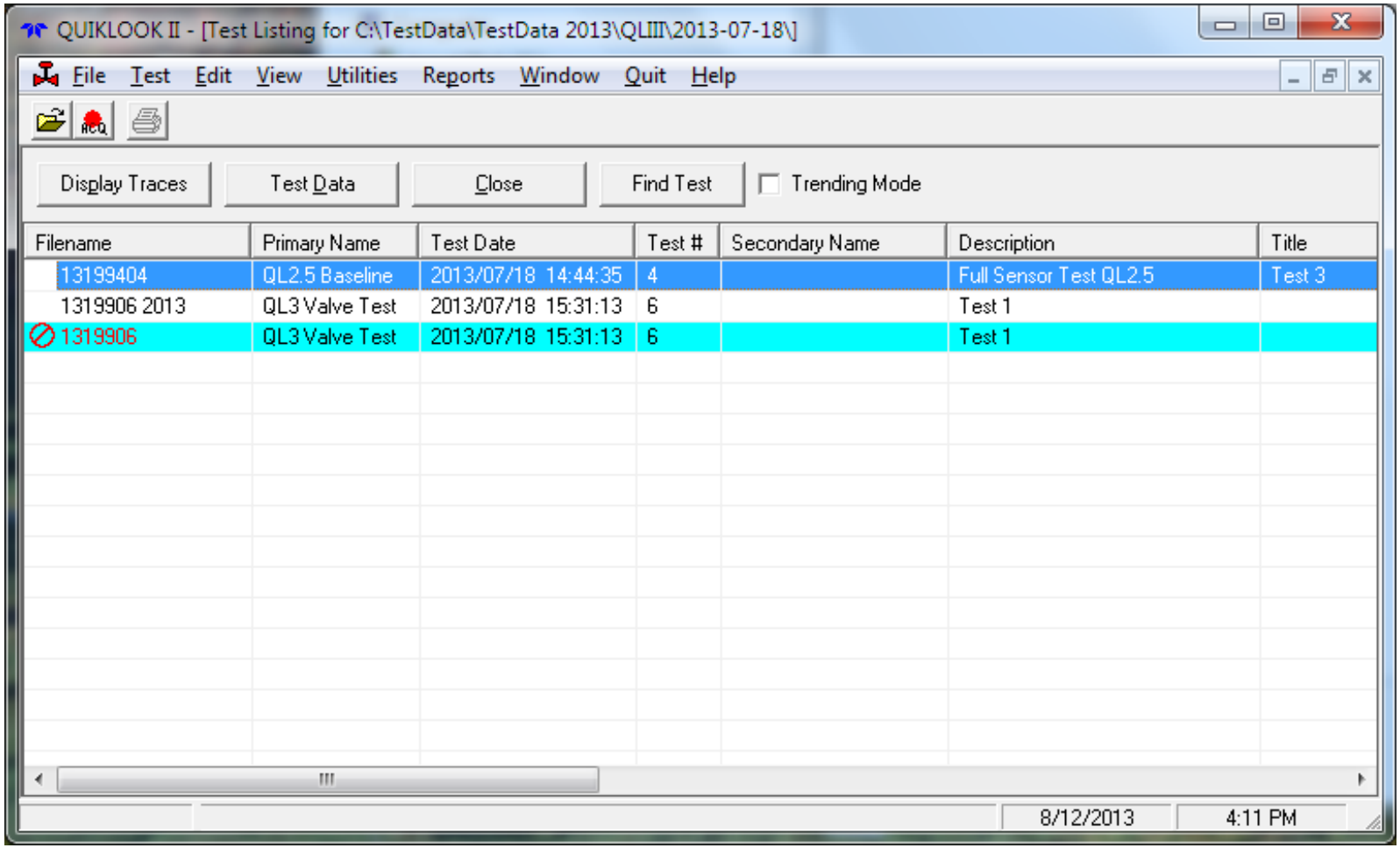
QUIKLOOK 3 Software

Software Compatibility

- Tests taken with Quiklook 3 will be incompatible with previous versions of Quiklook.
- Tests taken with previous versions of Quiklook will be compatible with QL 3
- The c00 file will still be maintained for compatibility with Midas
- When purchasing a Quiklook 3 all desktop installs of Quiklook should be upgraded
- Quiklook II systems do not have to be upgraded but may be
- Marker Names will be increased from 3 characters to 5

QUIKLOOK 3 Software

Software Compatibility



QUIKLOOK 3 Software

Redirector built into Quiklook

- Preference Setting would set a base directory
- Each Subdirectory Name would be a Valve ID
- Each Directory will contain one configuration file
- When Quiklook starts you will be presented with a list of Valve IDs based on directory names
- Quiklook will then go directly into the acquisition screen using the configuration for the selected valve

QUIKLOOK 3 Software

QUESTION?

Does there need to be a preference setting so that acquisition may be performed using the QLII approach with separate Configuration / Test / Monitor screens?

QUIKLOOK 3 Software

Thank you

USER FEEDBACK?