Seventh Annual QUIKLOOK Users Group Meeting
August 14 & 15, 2013

Presented by: Eric A. Solla
QUIKLOOK 3
SOFTWARE
New Program Features

Software Engineer
Eric A. Solla
QUIKLOOK II Software

Windows → Quiklook

Configure → Home Page

Test → Replay

Monitor → Acquire
QUIKLOOK 3 Software
Acquisition Screen

[Image of the 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

![Battery Status Table]

- Current: 2.511 Amps
- Power: 40.7 Watts
- Avg Charge: 99%
- Status: Discharging
- Run Time to Empty: 4 hrs 53 mins

- Battery: 1 2
- Status: Fc
- Voltage (volts): 16.229 16.199
- Current (amps): -1.5 -0.98
- Temp C: 28.1 27.1
- Charge: 99% 100%
- Capacity (Amp-hrs): 6.45 5.85
QUIKLOOK 3 Software Acquisition Screen

Primary Name

Test Number: 5  Date: 8/7/2013 2:36:32 PM

Start

Secondary Name

Description

Title

Comment

Comment

Technician

Type of Test

Condition

Direction

Stroke

Max Seconds

Additional Comments:

Excitation Voltage OK
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
# QUIKLOOK 3 Software Acquisition Screen

<table>
<thead>
<tr>
<th>Current</th>
<th>2.986 (Amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thrust</td>
<td>1.002 (Lbs)</td>
</tr>
<tr>
<td>Torque</td>
<td></td>
</tr>
<tr>
<td>CST</td>
<td></td>
</tr>
<tr>
<td>Open</td>
<td></td>
</tr>
<tr>
<td>Close</td>
<td></td>
</tr>
<tr>
<td>ByPass</td>
<td></td>
</tr>
<tr>
<td>SpPrPack</td>
<td>0.0001 (In)</td>
</tr>
</tbody>
</table>

## Primary Name
- Test Number: 5
- Date: 8/7/2013 2:56:30 PM

**Start**

- Acquisition Rate: 1.000

**Excitation Voltage OK**
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

Current: 2.986 (Amps)
Thrust: 1.002 (Lbs)
SprPack: 0.0001 (In)
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)
• 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
An out of date calibration will **also** cause a Red Flag

This Red Flag will not go away and will remain on main screen
• 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 - AOV
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
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
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
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?
Thank you

USER FEEDBACK?