



TELEDYNE TEST SERVICES

Everywhereyoulook™

Valve Diagnostic Testing and Maintenance

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



Presented by: **Jason J. Haglund**



TELEDYNE TEST SERVICES

Everywhereyoulook™

Valve Diagnostic Testing and Maintenance

QUIKLOOK 3

PRESENTATION

Engineering and Operations Manager

Jason J. Haglund

QUIKLOOK 3 MULE

OVERVIEW

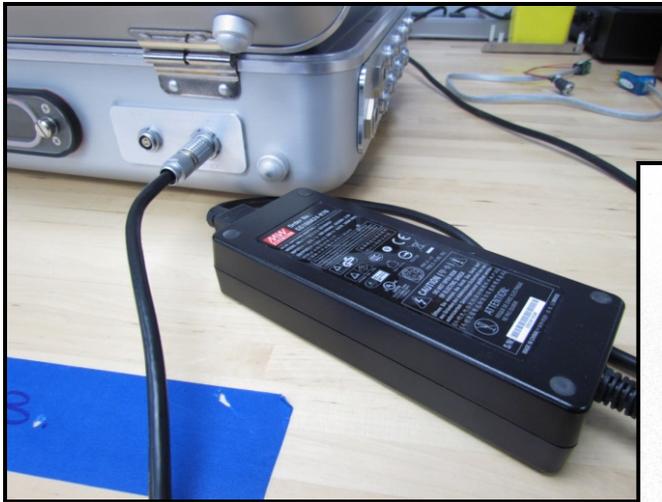
Teledyne Test Services has developed the next generation of **QUIKLOOK** hardware. This signifies a leap forward for valve test instrumentation.



QUIKLOOK 3

FEATURES

- Fully Battery Powered (5+ hours of operation)
- External DC power Supply Brick
- 12 VDC Auxiliary Port



QUIKLOOK 3

FEATURES

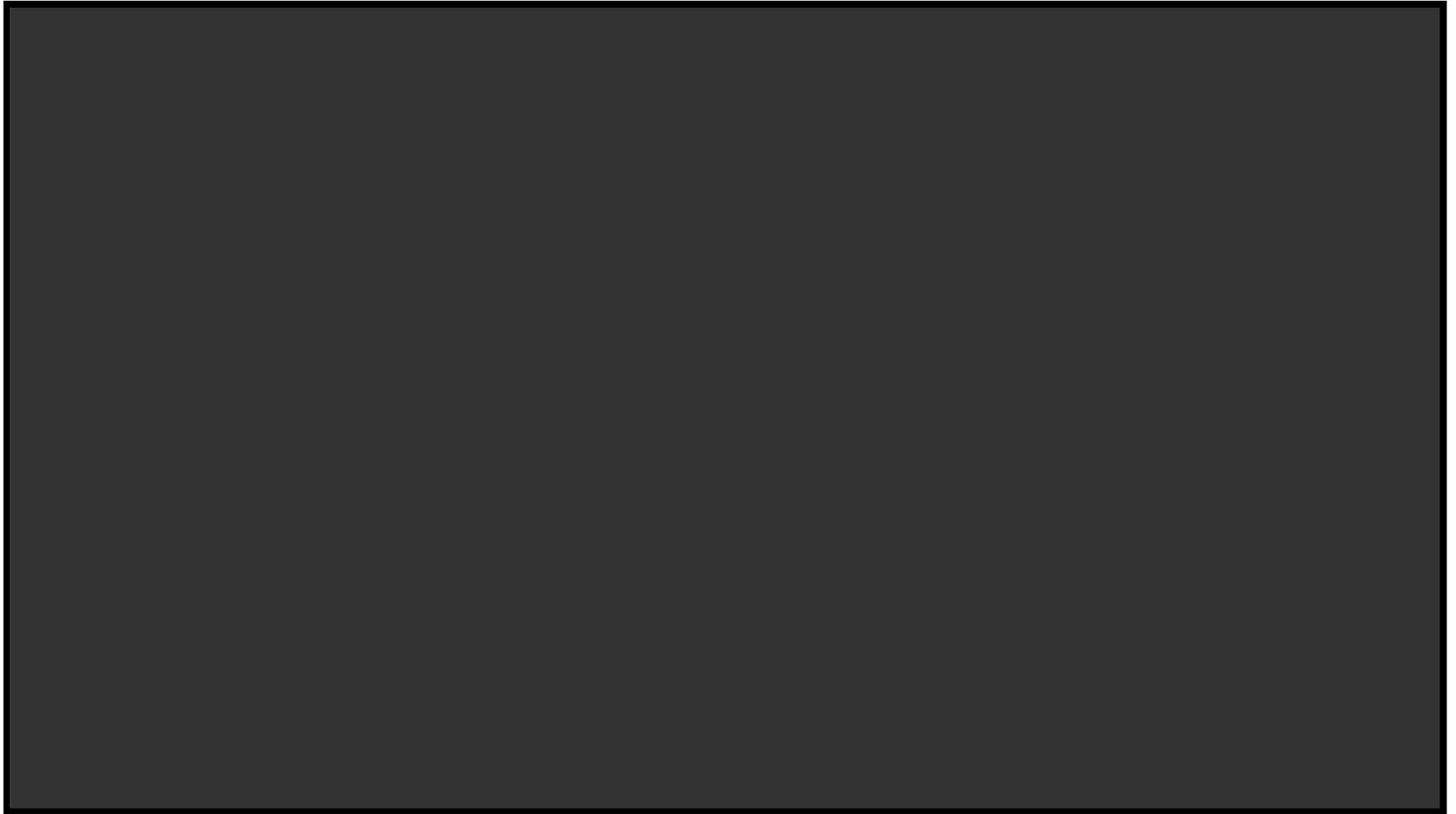
- Hot-swappable for continuous operation without an external power source



QUIKLOOK 3

FEATURES

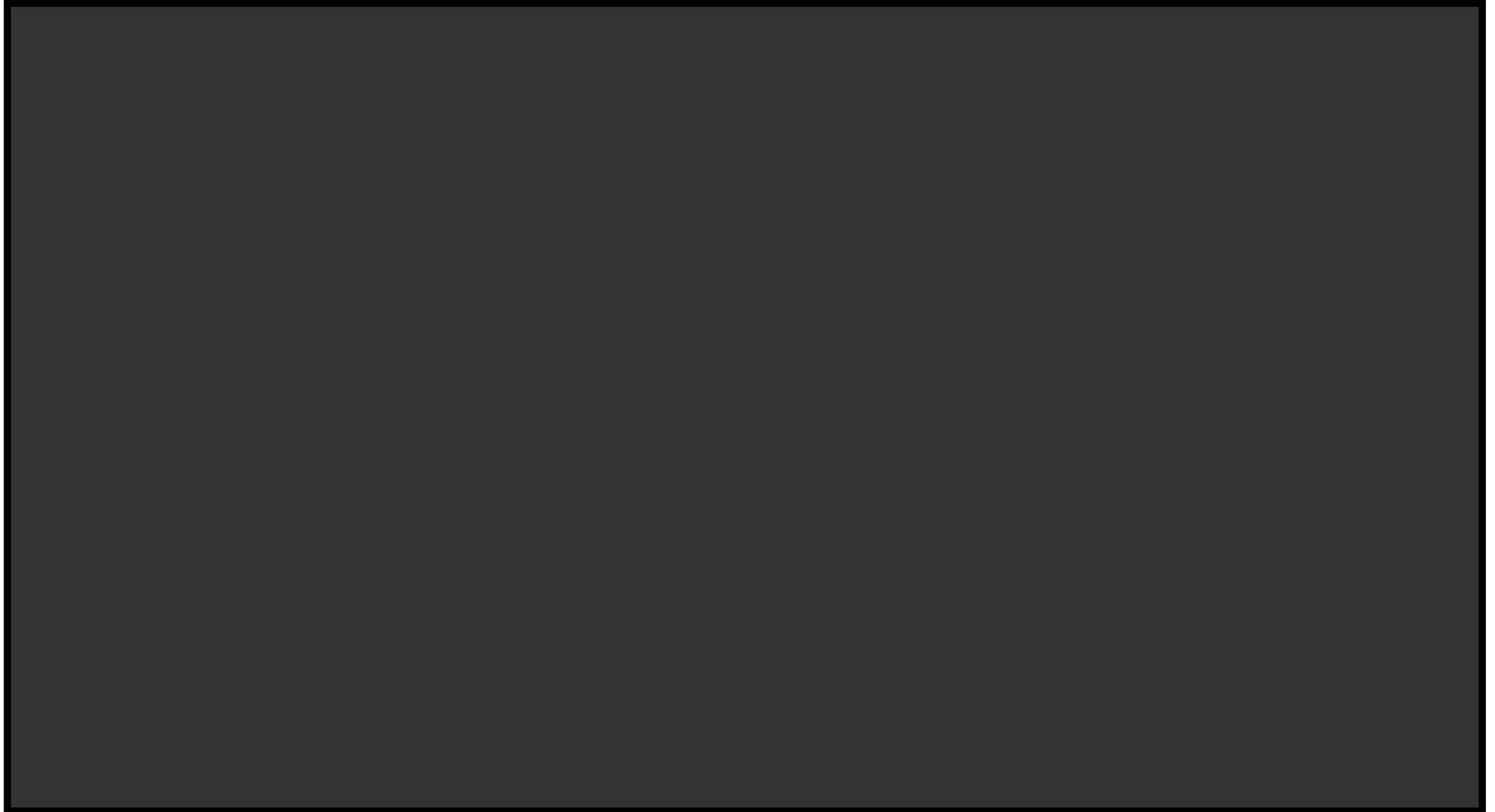
- Battery Hot-Swap Operation



QUIKLOOK 3

FEATURES

- 15" Touch Screen Display



QUIKLOOK 3

FEATURES

- IP67 Rating - Fully Sealed to Prevent Ingress of Contamination
- Weather Tight for De-Con Wash Down (Opened or Closed Case)
- All connections on Outside of Case



QUIKLOOK 3

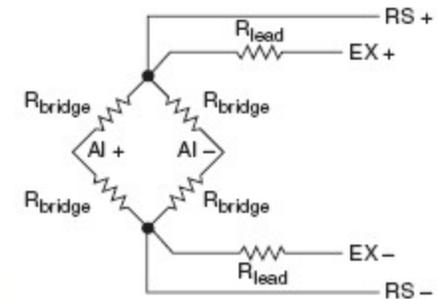
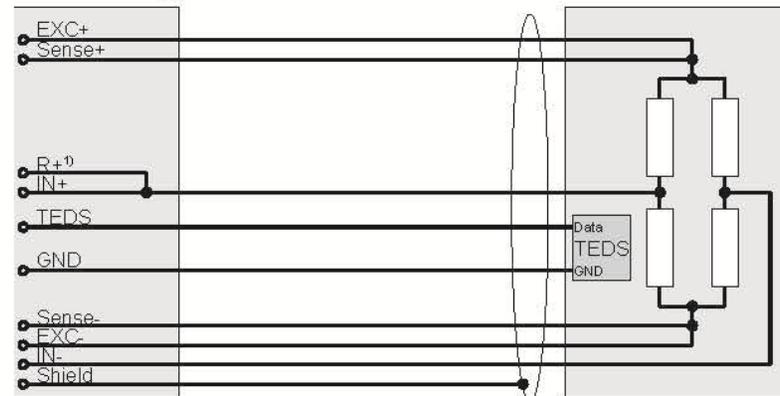
FEATURES

- Voltage Sense
 - Eliminate the need for a Voltage Drop Box



Signal connection

Full bridge 6 wire sensor connection



QUIKLOOK 3

FEATURES

- TEDS Sensor Template

TEDS Template Draft Standard IEEE P1451.4

Manufacturer ID

Model Number

Serial Number

auto create filename

[#33] Bridge | [#6] DS Ampl | [#7] DS Sensor

(IEEE 1451.4 V1.0) (TID#33) (Bridge Sensors) (BitSize:253 [Min:209 Max:265])

Description	VALUE	Unit	Access
Transducer Electrical Signal	Bridge Sensor		Asig
Physical Measurand	Torque (Nm)		Cal
Minimum Torque	-231	Nm	Cal
Maximum Torque	231	Nm	Cal
Full Scale Electrical Value Precision	Full precision		Cal
Minimum Electrical Value	-0.003	V/V	Cal
Maximum Electrical Value	0.003	V/V	Cal
Mapping Method	Bridge		Asig
Bridge type	Full		ID
Bridge element impedance	350	Ohm	ID
Response Time	1F-6	sec	ID
Excitation Level (Nominal)	10	V	ID
Excitation Level (Minimal)	10	V	ID
Excitation Level (Maximal)	0.1	V	ID
Calibration Date	31.12.2013		Cal
Calibration Initials	DE		Cal
Calibration Period (Days)	0	days	Cal
Measurement location ID	0		Usr

QUIKLOOK 3

FEATURES

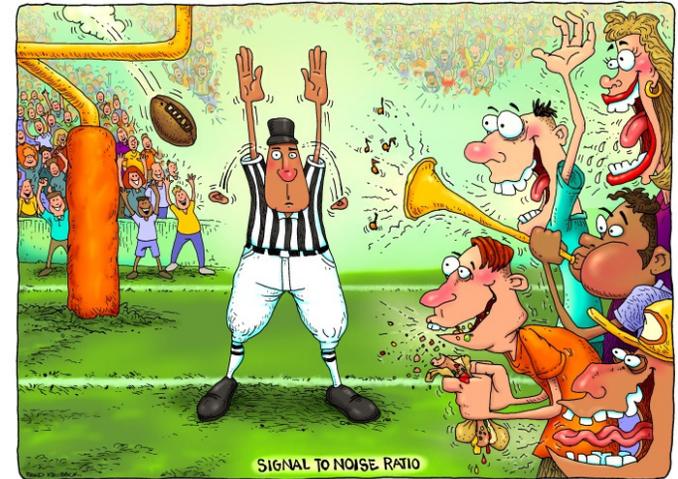
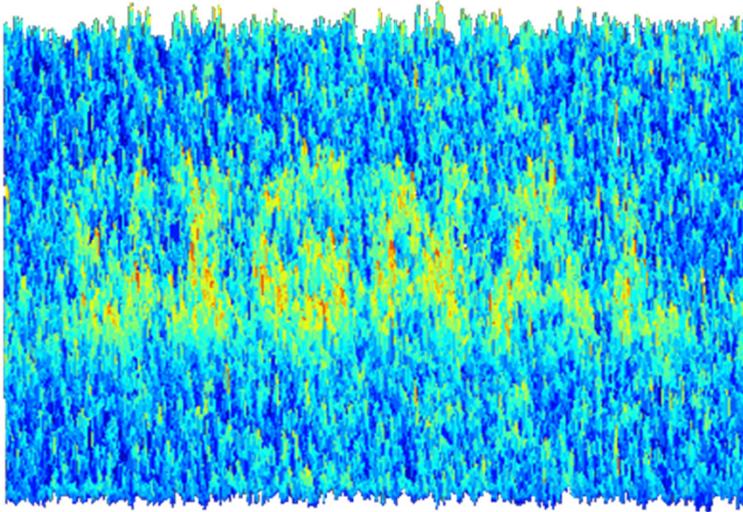
- Backwards Compatible QLII to QL3
 - 4 to 7 wire Jumpers or Patch Cable
 - TEDS Recognition Chip – prompt to fill in sensor data
 - Old Sensors upgradeable



QUIKLOOK 3

FEATURES

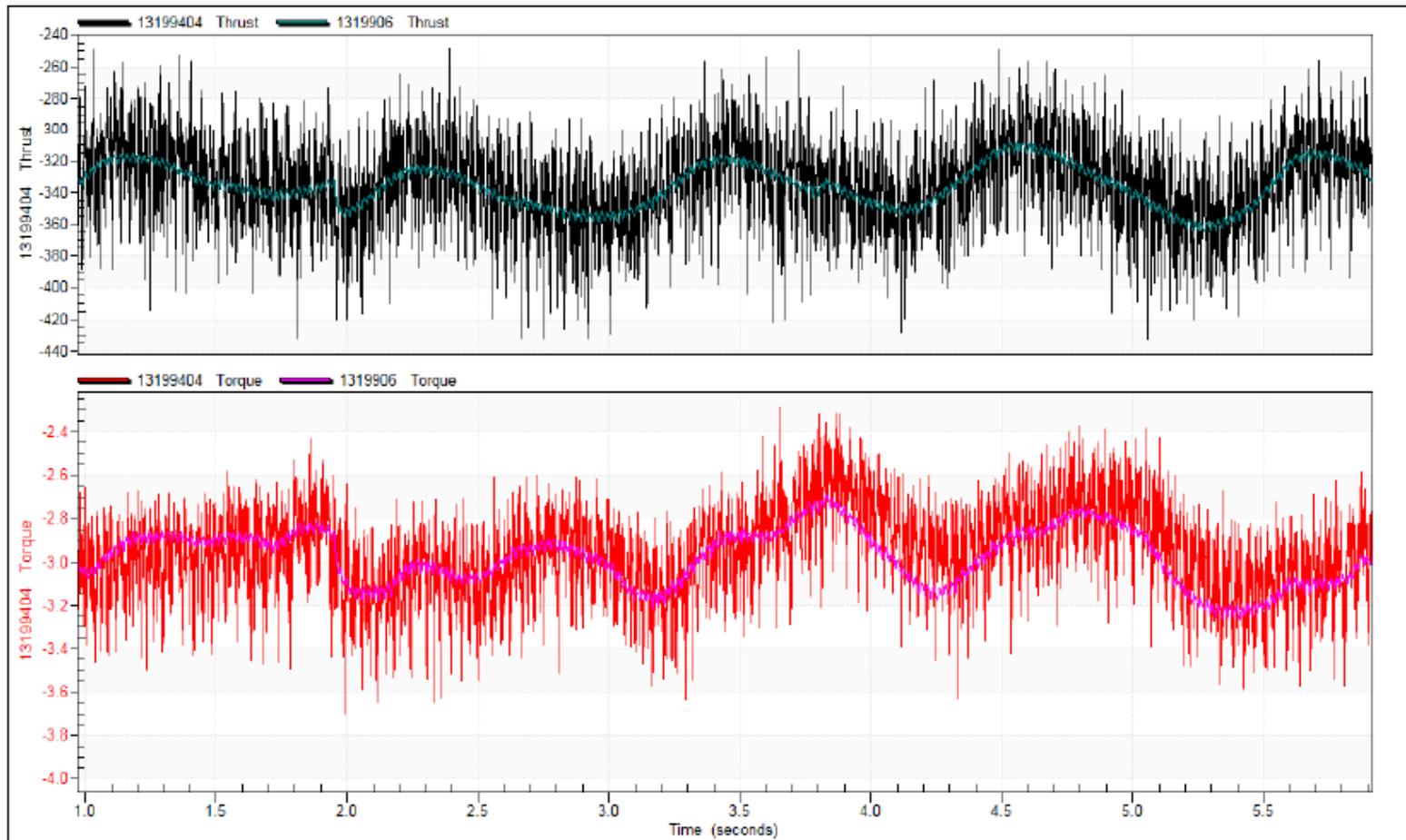
- Signal to noise ratio reduction – Trace Quality



QUIKLOOK 3

FEATURES

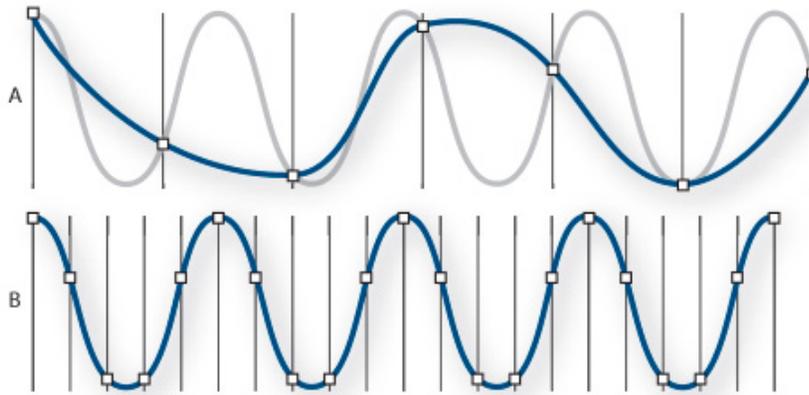
- Trace Quality Sample
 - Close Running Load Test – QLII vs. QL3 (1,000Hz)



QUIKLOOK 3

FEATURES

- Sample Rate 10 to 50,000 s/s, 16CH's simultaneously acquired
 - Hardware capable of 200,000 s/s
 - Check Valve Testing Requires (10k-50k s/s)



QUIKLOOK 3

FEATURES

- RealVNC® Remote Desktop Simplification

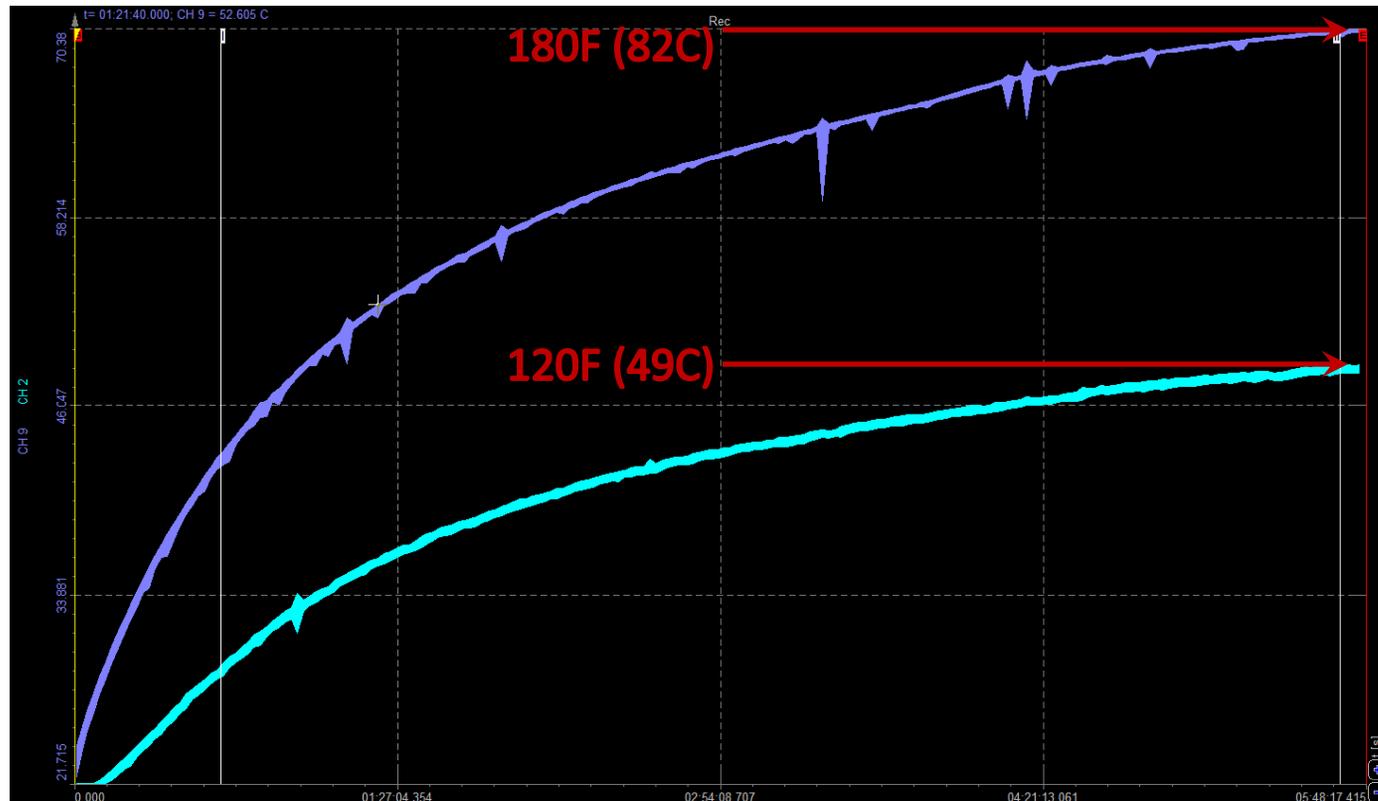


- **Why is it better?**
 - Reliable
 - Less confusion
 - Two active screens
 - Wired with no distance limitations
 - Targeted Connection
 - Wireless

QUIKLOOK 3

FEATURES

- High Temperature Operation – 115°F (46C) Ambient
 - QL3 Tested to 120°F (Fully Operational)
 - QL2.5 – 110°F (43C)
 - QLII – 105°F (40.5C)



QUIKLOOK 3

FEATURES

- VOIP: Audio / Voice Communication to Laptop
 - Wired or Wireless
 - Simplified Connection



QUIKLOOK 3

FEATURES

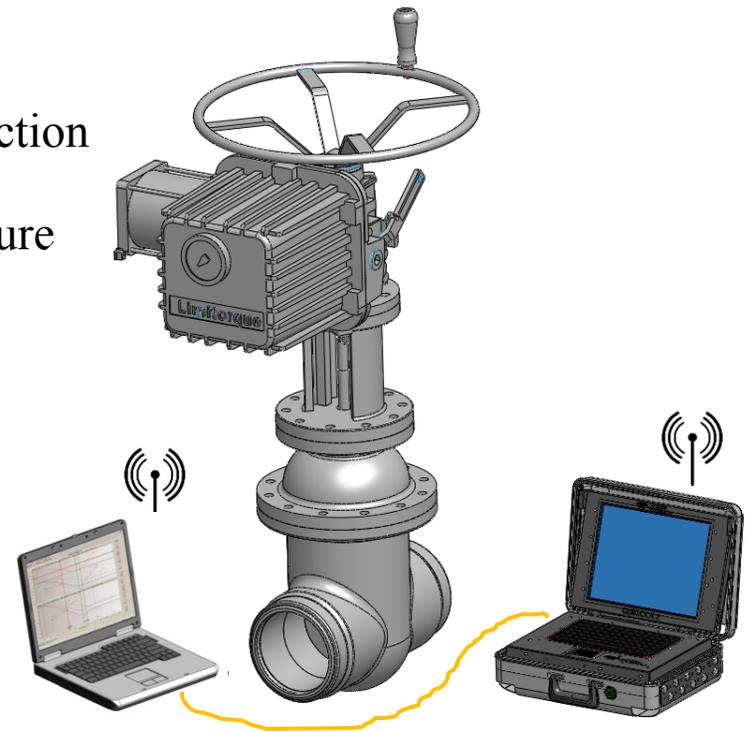
- Wireless Integrated (drop box solution)
- Setup Test, Start, Close Case and Walk Away



QUIKLOOK 3

SPECIFICATIONS

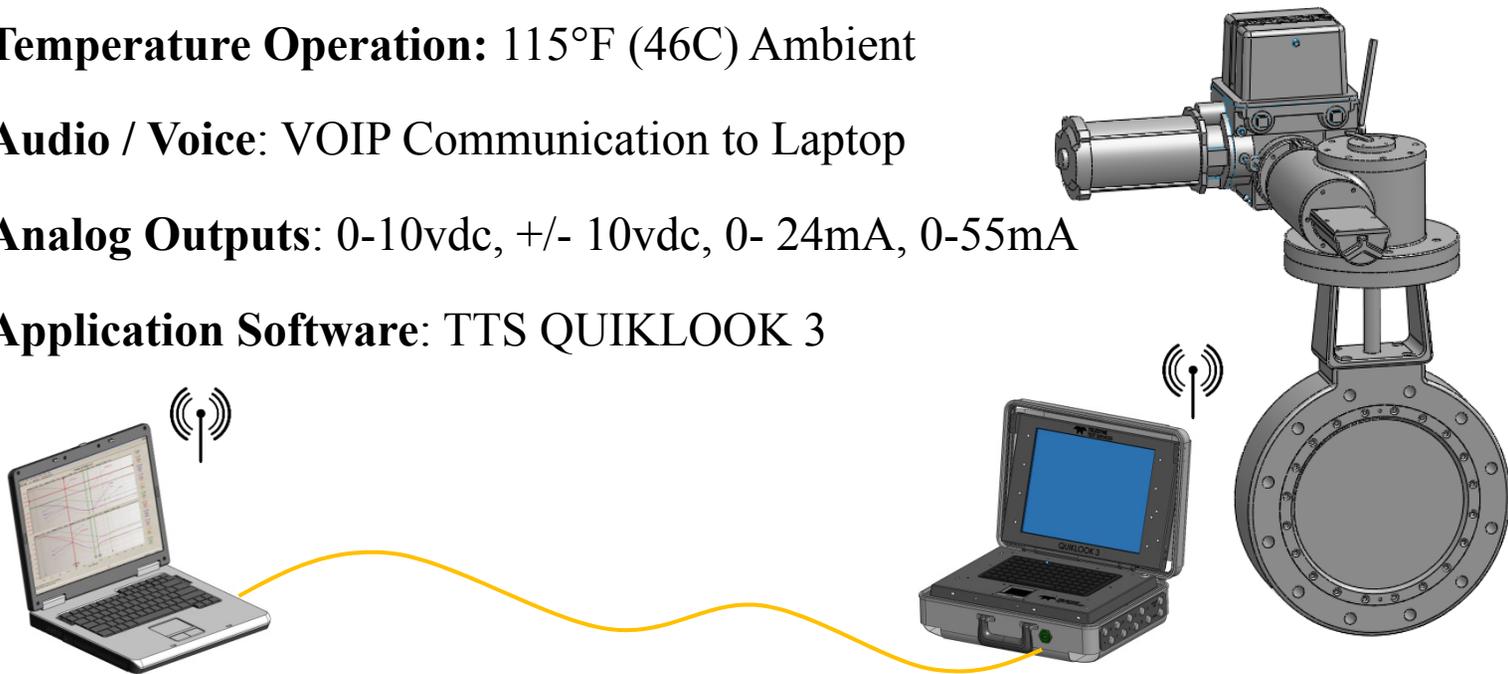
- **Battery Operation:** (2) Lithium-Ion 14 VDC Packs
 - 5+ hours of continuous operation
- **Touch Screen:** 15" Touch Display Screen
- **IP67 rated:** Fully Sealed to Prevent Ingress of Contamination
Weather Tight for De-Con Wash Down
- **Voltage Sense:** Remote Voltage Drop Correction
- **Sensor Recognition:** TEDS Open Architecture
- **Accuracy:** 1% Reading



QUIKLOOK 3

SPECIFICATIONS

- **Channel Sample Rate:** User Configurable 10 to 200,000 s/s
 - 16 Isolated Channels Simultaneously measured
- **Remote Access:** RealVNC[®] Software
 - **Wireless:** IEEE 802.11b/g/n Compatible
 - **Wired Ethernet:** Direct Connection the Laptop
- **Temperature Operation:** 115°F (46C) Ambient
- **Audio / Voice:** VOIP Communication to Laptop
- **Analog Outputs:** 0-10vdc, +/- 10vdc, 0- 24mA, 0-55mA
- **Application Software:** TTS QUIKLOOK 3





QUIKLOOK 3

Thank you

USER FEEDBACK?