





Recalibration & Repair for Load and Torque





WHY RECALIBRATE?

- To ensure you are getting the most accurate and reliable results for your testing/application
- Quality system compliance
- Regular check on the 'health' of your load cell



WHY DO LOAD CELL OUTPUTS CHANGE?

- Application Loading Conditions
 - Impact/Moment Loads or Overloads
 - Severe Duty
- Damage
 - Physical damage, connector/cable, other...
 - Environmental exposure
 - Inert gas seal compromised
- Time
 - Load cell outputs shift over time

WHEN SHOULD I RECALIBRATE?

- Interface standard interval recommendation is 1 year
- Interval subject to customer requirements and application
 - Severe duty applications may require shorter recalibration intervals
 - Less severe applications or applications with infrequent use may permit longer intervals
 - Calibration interval may be adjusted based on customer confidence level in a specific load cell's calibration
 - Calibration results should be analyzed over a period of time to verify correct calibration interval is being used

WHY CHOOSE INTERFACE?

- ISO17025 Accredited
- Nearly 50 years of calibration experience as a company.
- 95,000+ calibrations performed annually on 9 hydraulic and 5 deadweight test stands
- Calibration of all manufacturers load cells
- Permanently archived test data
- NIST calibrated Gold and Platinum standard reference load cells
- Interface Gold Standard calibration software used for data collection
 & analysis



WHY CHOOSE INTERFACE?

- Custom calibrations tailored for your needs
- Full service machine shop for any mechanical requirements
- Highly trained and dedicated calibration and repair personnel





REPAIRS-COMMON DAMAGE

- Connector or Cable Damage
 - Recalibration always recommended with replacement



- Common symptom of an overloaded load cell
- Can be re-zeroed within limits
- Zero-shift past a point is not repairable
- Bridge leg resistances can sometimes provide clues as to the overload mode
- Overloads
 - Deformation of the load cell sensing element
 - Structural failure if severe enough





REPAIRS-COMMON DAMAGE

- Water/Moisture Damage
 - Can cause low insulation resistance
 - Often manifested as a 'drifting' or noisy signal
- Loss of inert gas seal on certain models



RECALIBRATION SERVICES

	FORCE	Interface Standard	ANSI Z-540 MIL-STD-4562A	ASTM E74	ISO 376
Services Offered	Tension & Compression	Ø	8	Ø	
	Dual Bridge	Ø			
	System Calibrations	⊘	(Ø	
	Extra/Custom Points Available	Ø	(Ø	Ø
	Interface NIST Traceable Cal Cert	Ø	(Ø	
	A2LA / ISO 17025 Accredited				
	Lower Load Limits			Ø	
	Coefficients				
	Curved Fit & Graph Polynomials			Ø	
	ISO 376 Class 0.5 – 0 - 500 LBF				Ø
	ISO 376 Class 1 – >500 LBF				

	TORQUE	Standard Torque	ANSI Z-540 MIL-STD-4562A	ASTM E2428
Services Offered	Clockwise & Counter-Clockwise	((
	Dual Bridge	((
	System Calibrations	(S	Ø
	Extra Points	Ø	Ø	Ø
	Interface NIST or NMI Traceable Cal Cert	(S	Ø
	A2LA / ISO 17025 Accredited		Ø	Ø
	Lower Load Limits			Ø
	Coefficients			Ø
	Curved Fit & Graph Polynomials			



Recalibration & Repair for Load and Torque

FORCE

- Mini 2-Point Cal
- Interface Standard Calibration
 - 5 pt. tension and compression
 - Interface NIST traceable certificate
- ANSI Z-540/MIL-STD-45662A
 - 5 pt. tension and compression
 - A2LA/ISO17025 accredited calibration
- ASTM E74 Class A
 - 10 pts, 3 runs with rotation
 - Calibration certificate includes curve fit, plots, coefficients and lower load limit
 - A2LA/ISO17025 accredited calibration
- ISO 376
 - Class 0.5 to 500 lbf
 - Class 1 >500lbf

Interface Calibration Services





Recalibration & Repair for Load and Torque

TORQUE

- Interface Standard Calibration
 - 5 pt. tension and compression
 - Interface NIST traceable certificate to 2200 in-lb
 - Interface NMI traceable certificate
 2.2K to 100K lb-in
- ANSI Z-540/MIL-STD-45662A
 - Interface NIST traceable certificate to 2200 in-lb
 - Interface NMI traceable certificate 2.2K to 100K lb-in
- ASTM E2428 Class A
 - 10 pts, 3 runs with rotation
 - Calibration certificate includes curve fit, plots, coefficients and lower load limit
 - A2LA/ISO17025 accredited calibration

Interface Calibration Services





Recalibration & Repair for Load and Torque

ADDITIONAL SERVICES AVAILABLE

- Extra or special points
- Additional bridges
- System Calibrations (load cell and instrument)
 - Interface or non-Interface instrument
- Instrument Calibrations
 - Load cell simulators
 - Internal mV/V indicator calibration
 - Junction box calibration
- TEDS programming

Interface Calibration Services



INTERFACE REPAIR SERVICES

- Dependable 7-10 day turn-around
- Complimentary load cell evaluation
- Complete repair services for any Interface load cell
 - Diaphragm replacement
 - Connector and connector protector replacement
 - Re-zero
 - Inert gas purge and back fill
- Connector replacement for any manufacturers load cell*
- Cable repairs
- TEDS Self-ID retrofit

NEED A RECALIBRATION?

- RMA Request
 - Shoot us an email
 - Give us a call
 - Recalibration RFQ on the website
- Recalibration and Service Contacts
 - Elliot Speidell
 espeidell@interfaceforce.com
 1-800-947-5598 ext. 123
 - Lindsay Hanson
 <u>lhanson@interfaceforce.com</u>
 1-800-947-5598 ext. 152



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