

**CERTIFICATE OF COMPLIANCE**

**Issued To:**

VA Medical Center  
Attn: Patrick Aubin  
1660 South Columbian Way  
Warehouse 90D  
Seattle, WA

**Part/Type #** 98108

**Description**

**Serial #**

9322A

FORCE LINK

4518541

**Condition: New**

KISTLER INSTRUMENT CORPORATION hereby certifies all material used in the manufacturer of the specific instrumentation or part meets applicable terms, conditions and specifications of your purchase order.

KISTLER INSTRUMENT CORPORATION further certifies the test equipment used in calibration of your product is in conformance with the requirements of ANSI/NCSL Z540-1, MIL-STD-45662A, ISO 9001 and ISO/IEC 17025. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$  such that the coverage probability corresponds to approximately 95%.



**CALIBRATION**

Certificate Number AC-1117

**Kistler Instrument Corp.** Tel 716-691-5100  
75 John Glenn Drive Fax 716-691-5226  
Amherst NY 14228-2171

ISO 9001 Certified Quality System  
ISO 17025 Accredited Calibration System  
[info.us@kistler.com](mailto:info.us@kistler.com)

## CALIBRATION CERTIFICATE FORCE

## KALIBRIERSCHEIN KRAFT

<b>Certificate ID</b>	<b>Zertifikats-ID</b>	<b>4518541-041014T0719</b>
<b>Type</b>	<b>Typ</b>	<b>9322A</b>
<b>Serial No</b>	<b>Serien-Nr</b>	<b>4518541</b>
Operating Temperature Range	Betriebstemperaturbereich	°C -40...120
Measuring Range	Messbereich	lbf -2000...2000

Measurements		Messungen		
Calibrated Range / lbf	Kalibrierter Bereich N	Sensitivity / pC/ lbf	Empfindlichkeit pC/ N	Linearity / ≤±%FSO
0 ... 2000	0 ... 8896.4	-17.51	-3.937	0.1
0 ... 200	0 ... 889.64	<u>-17.49</u>	-3.932	0.2
0 ... -2000	0 ... -8896.4	-17.32	-3.894	0.2

avc.  
3.9543

Ambient Temperature	Umgebungstemperatur	°C 22 ± 4
Relative Humidity	Relative Feuchte	% 30 ± 30
Calibration Technician	Kalibrierung Techniker	James Pyrak
Date	Datum	4/10/14

This sensor was calibrated per Kistler test procedure 9301A-701 using a comparison technique against a Kistler working standard. Kistler working standards are periodically calibrated against a primary standard system, which in turn is periodically recertified to the National Institute of Standards and Technology (NIST) or another recognized national standard. Measurements are derived from accepted values of natural physical constants according to the International System of Units (SI). The calibration meets or exceeds the requirements of MIL-STD-45662A, ISO 9001, ANSI/NCSL Z540-1 and is accredited to ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AC-1117. Estimated uncertainty is ± 0.18% of reading with respect to the primary standard. Certificates are on file at Kistler and may be requested in writing. This certificate shall not be reproduced, except in full, without written approval of Kistler Instrument Corporation.

Reference Equipment	Referenz Geräte	Type / Typ	Serial - No / Seriennummer
Sensor (Working Standard)	Sensor (Gebrauchsnorm)	Kistler REF9352A	506006
Charge Amplifier	Ladungsverstärker	Kistler 5011B	1026986
Charge Calibrator	Ladungskalibrator	Kistler 5395A	988259

040-0070-001 Rev. A - page 2/2