



WICHITA STATE  
UNIVERSITY

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## CONTRACT AWARD

Date of Award: 04/21/25

Contract Number: W0001866

Procurement Officer: Robby Murray  
Telephone: (316)978-5185  
E-mail Address: [robby.murrayl@wichita.edu](mailto:robby.murrayl@wichita.edu)

**Item:** **Strain Gages and Associated Accessories**

Department: Wichita State University, NIAR  
1845 Fairmount, Campus Box 93  
Wichita, KS 67260  
Attn: Royal Lovingfoss & Brandon Baier  
Phone: 316-978-5317 & 316-978-8222

Email: [royal.lovingfoss@ipdp.wichita.edu](mailto:royal.lovingfoss@ipdp.wichita.edu) &  
[brandon.baier@ipd.wichita.edu](mailto:brandon.baier@ipd.wichita.edu)

Period of Contract: April 28<sup>th</sup>, 2025 through December 31, 2028, Epsilon Tech. Corp.  
March 21, 2025 through December 31, 2028, HBK  
May 16<sup>th</sup>, 2025 through December 31, 2028, Micro-Measurements  
(With options to renew automatically for four (4) additional (1)  
year renewal periods)

<p>Contractor: Epsilon Technology Corporation 3975 US-89, Jackson, WY 83001</p> <p>Contact: Doug Gorand Phone: 307-733-8360 x334 Email: <a href="mailto:Dgorand@epsilontech.com">Dgorand@epsilontech.com</a></p>	<p>Contractor: Hottinger Bruel &amp; Kjaer Inc. (HBK) 19 Bartlett Street Marlborough, MA 01752</p> <p>Contact: Zach Atkins Phone: 217-607-5713 Mobile: 512-820-3036 Email: <a href="mailto:Zachary.atkins@hbkworld.com">Zachary.atkins@hbkworld.com</a></p>	<p>Contractor: Vishay Measurements Group, Inc., dba Micro-Measurements 957 Wendell Blvd. Wendell, NC 57591</p> <p>Contact: Darryl. Peterson Phone: 919-374-5527 Mobile: 919-588-9351 Email: <a href="mailto:Darryl.peterson@vpgsensors.com">Darryl.peterson@vpgsensors.com</a> For Orders: <a href="mailto:mmwd.customerservice@vpgsensors.com">mmwd.customerservice@vpgsensors.com</a></p>
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***Pricing for all companies is attached.***

**APPENDIX C: COST SHEET****Strain Gages, Accessories, and Calibration, Support, and Repair Services**

WSU NIAR is requesting a standard discount on proposals for the purchase of strain sensors/gages for a wide range of applications, including but not limited to stress analysis gage patterns, special purpose gages, high temperature gages, and custom strain gages.

Suppliers may also quote a discounted rate on accessories for these sensors such as tools, wiring, data loggers, acquisition, amplifiers, signal conditioners, software, and other hardware.

Suppliers may also quote a discounted rate on support for repair and calibration services for sensors/gages and other equipment for which they supply.

This Request is for an open-ended contract between a supplier and WSU to furnish an undetermined quantity of goods and/or services in a given period of time at the lowest price available through their catalog at discounted prices.

An estimated quantity based on history or other means may be used as a guide.

Category	% Discount offered	Additional discounts available but not listed
Standard in stock Strain Gages/Sensors	10%	
Custom Strain Gages/Sensors	10%	
Accessories for the Strain Gages/Sensors	10%	
Technical Support and Repair Services	10% for repair Technical support is free	
On-Site Support and Repair Services including Calibration Services	N/A	We do not offer onsite services

## AXIAL EXTENSOMETERS

### Model 3442 Miniature Axial Extensometer

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
Gauge Length > 5 mm	\$2,290.00	\$2,420.00	\$2,705.00	\$2,630.00	\$2,820.00
Gauge Length ≤ 5 mm	<b>\$2,675.00</b>	<b>\$2,805.00</b>	<b>\$3,090.00</b>	<b>\$3,015.00</b>	<b>\$3,205.00</b>
<b>10% Discount</b>					
Gauge Length > 5 mm	\$2,061.00	\$2,178.00	\$2,434.50	\$2,367.00	\$2,538.00
Gauge Length ≤ 5 mm	<b>\$2,407.50</b>	<b>\$2,524.50</b>	<b>\$2,781.00</b>	<b>\$2,713.50</b>	<b>\$2,884.50</b>
		LIST	10% Discount		
3442-KE: 3 mm knife edge replacement		\$220.00	\$198.00		
3442-XXXX-ADAPTER: Gauge length adapters (6 mm through 50 mm)		\$445.00	\$400.50		
3442-XXXX-SPACER: GL spacers for models with no arms or customers that choose them with the caveat of target gauge length		\$95.00	\$85.50		
3442-SPK, Includes standard, vee, and 3-pt. KE		\$320.00	\$288.00		
3442WF: 3442 Gen2 Wireform Set (replacement)		\$100.00	\$90.00		
3442-D695: D695 wireforms and wireform mount		\$250.00	\$225.00		

### Model 3542 Axial Extensometer

	LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
<20 mm Gauge Lengths	\$2,500.00	\$2,630.00	\$2,915.00	\$2,840.00	\$3,030.00	
1 inch, 25 mm, 20 mm, or 30 mm Gauge Lengths	\$2,165.00	\$2,295.00	\$2,580.00	\$2,505.00	\$2,695.00	
≥35 mm (1.4 inch) to ≤50 mm (2 inch) Gauge Lengths	\$2,275.00	\$2,405.00	\$2,690.00	\$2,615.00	\$2,805.00	
>50 mm (2 inches) to ≤80 mm	\$2,600.00	\$2,730.00	\$3,015.00	\$2,940.00	\$3,130.00	
100 mm to 250 mm or 4" to 8" Gauge Lengths, limited travel	\$2,905.00	\$3,035.00	\$3,320.00	\$3,245.00	\$3,435.00	
>250 mm (>8 inches) to <610 mm; ≥610 mm Inquire	\$3,485.00	\$3,615.00	\$3,900.00	\$3,825.00	\$4,015.00	
10% Discount						
<20 mm Gauge Lengths	\$2,250.00	\$2,367.00	\$2,623.50	\$2,556.00	\$2,727.00	
1 inch, 25 mm, 20 mm, or 30 mm Gauge Lengths	\$1,948.50	\$2,065.50	\$2,322.00	\$2,254.50	\$2,425.50	
≥35 mm (1.4 inch) to ≤50 mm (2 inch) Gauge Lengths	\$2,047.50	\$2,164.50	\$2,421.00	\$2,353.50	\$2,524.50	
>50 mm (2 inches) to ≤80 mm	\$2,340.00	\$2,457.00	\$2,713.50	\$2,646.00	\$2,817.00	
100 mm to 250 mm or 4" to 8" Gauge Lengths, limited travel	\$2,614.50	\$2,731.50	\$2,988.00	\$2,920.50	\$3,091.50	
>250 mm (>8 inches) to <610 mm; ≥610 mm Inquire	\$3,136.50	\$3,253.50	\$3,510.00	\$3,442.50	\$3,613.50	
			LIST	10% Discount		
350210-01: Spare Straight Knife Edges, set of 2			\$80.00	\$72.00		
9903-01-01: Spare Vee Knife Edges: set of 2			\$110.00	\$99.00		
9903-05-02: Wear-Resistant Carbide Knife Edges			\$150.00	\$135.00		
350210V2-01: Spare Dual Bevel Knife Edges: High toughness, set of 2			\$130.00	\$117.00		
354299: Spare Three Point Knife Edges: (for flat specimens), set of 2			\$120.00	\$108.00		
354299-SP: Single point KE combined with Straight KE for flat samples <10 mm width			\$120.00	\$108.00		
350210C2-01: Spare Ceramic Knife Edges: set of 2			\$340.00	\$306.00		
350210EXT-01: Spare Extended Knife Edges: set of 2, (=0.35 in longer)			\$120.00	\$108.00		
350210-02: Spare Stainless Knife Edges: set of 2			\$260.00	\$234.00		
350210EXT-BLANK: Spare Custom Extended Knife Edges: set of 2			\$170.00	\$153.00		
350210-BLUNT: Spare Blunt Knife Edges: set of 2			\$115.00	\$103.50		
3542-SPK, Includes standard and 3-pt KE.			\$210.00	\$189.00		
3542WFR-, 351860-, 3542WFF-, 351859-: Spare Wireforms			\$100.00	\$90.00		
(Wireforms also available for 3543 models (inquire))						
3542-D695: D695 Compression Fixture Wireforms			\$115.00	\$103.50		
3542-Springs: Heavy duty springs (set of 2)			\$5.75	\$5.18		
AVG-CABLE-XX, Averaging Cable (-02 for two, -03 for three, etc.)			\$395.00	\$355.50		
3542-LD: Large Specimen Diameter Option			\$340.00	\$306.00		
Additional diameters beyond base configuration			\$120.00	\$108.00		
3542-XXXX-ADAPTER: Gauge length adapters						
20 mm to 60 mm, 5 mm increments			\$435.00	\$391.50		
<20 mm and conversion to 65 mm to 80 mm, 5 mm increments (DOES NOT INCLUDE CONFIGURATIONS WITH >50 mm measuring range)			\$565.00	\$508.50		
Conversion to >80 mm to 250 mm (≤ 50 mm measuring range)			\$745.00	\$670.50		
Conversion to ≥10 inches and adapter kits involving >50 mm measuring range, inquire			\$1,320.00	\$1,188.00		



CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

### Model 3543 Axial Long Gauge Length Extensometer

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
50 mm (2") Gauge Length, +25 mm or +50 mm (+1" or +2") Meas. Range	\$3,085.00	\$3,345.00			
<b>100 mm (4") Gauge Length, 25 mm, 50 mm or 100 mm (+1", +2" or +4") Meas. Range</b>	<b>\$3,230.00</b>	<b>\$3,490.00</b>			
150 mm to 300 mm (6" to <12") Gauge Length, 25 mm, 50 mm or 100 mm (+1", +2" or +4") Meas. Range	\$3,400.00	\$3,660.00			
<b>305 mm to 610 mm (12" to 24") Gauge Length, 25 mm, 50 mm or 100 mm (+1", +2" or +4") Meas. Range</b>	<b>\$3,840.00</b>	<b>\$4,100.00</b>			
>610 mm (>24")	Inquire	Inquire			
<b>10% Discount</b>					
50 mm (2") Gauge Length, +25 mm or +50 mm (+1" or +2") Meas. Range	\$2,776.50	\$3,010.50			
<b>100 mm (4") Gauge Length, 25 mm, 50 mm or 100 mm (+1", +2" or +4") Meas. Range</b>	<b>\$2,907.00</b>	<b>\$3,141.00</b>			
150 mm to 300 mm (6" to <12") Gauge Length, 25 mm, 50 mm or 100 mm (+1", +2" or +4") Meas. Range	\$3,060.00	\$3,294.00			
<b>305 mm to 610 mm (12" to 24") Gauge Length, 25 mm, 50 mm or 100 mm (+1", +2" or +4") Meas. Range</b>	<b>\$3,456.00</b>	<b>\$3,690.00</b>			
>610 mm (>24")	Inquire	Inquire			

LIST	10% Discount
3543-TW: Twist Option (special gauge length considerations)	\$1,670.00 <b>\$1,503.00</b>
3543GT-01-xxxx-xxxx-xx, Textile Clamp Adapter, 200 mm width samples and smaller (+Price above)	\$2,295.00 <b>\$2,065.50</b>
3543GT-02-xxxx-xxxx-xx, Textile Clamp Adapter, Customization Required (+Price above)	\$4,755.00 <b>\$4,279.50</b>
<b>3543-XXXX-SPACER: Gauge Length Spacers</b>	
5 mm	\$105.00 <b>\$94.50</b>
10 mm	\$115.00 <b>\$103.50</b>
20 mm	\$130.00 <b>\$117.00</b>
25 mm or 1"	\$145.00 <b>\$130.50</b>
50 mm or 2"	\$190.00 <b>\$171.00</b>
80 mm	\$270.00 <b>\$243.00</b>
100 mm or 4"	\$340.00 <b>\$306.00</b>
150 mm or 6"	\$405.00 <b>\$364.50</b>
500 mm or 20"	\$735.00 <b>\$661.50</b>

### EPSILON ONE - OPTICAL NONCONTACTING EXTENSOMETER

LIST	10% Discount
ONE-78PT-SYSTEM: 78 mm field of view; 200 mm working distance	\$24,500.00 <b>\$22,050.00</b>
ONE-52PT-SYSTEM: 52 mm field of view; 150 mm working distance	\$19,400.00 <b>\$17,460.00</b>
ONE-130PT-SYSTEM: 130 mm field of view; 210 mm working distance	\$34,115.00 <b>\$30,703.50</b>
ONE-200CE-SYSTEM: 200 mm field of view; 220 mm working distance	\$17,500.00 <b>\$15,750.00</b>
ONE-250CE-SYSTEM with 250 mm FOV, 280 mm WD	\$18,600.00 <b>\$16,740.00</b>
ONE-500CE-SYSTEM with 500 mm FOV, 270 mm WD	\$18,600.00 <b>\$16,740.00</b>
Other FOVs or WD>280 mm contact Epsilon	Inquire <b>Inquire</b>
ONE-TI-1: Touch Interface	\$830.00 <b>\$747.00</b>
<b>For mounting systems see pricing further down this document</b>	
ONE-MK-1: Standard Specimen Marking Kit (included with ONE)	\$275.00 <b>\$247.50</b>
ONE-MK-2L: Specimen Marking Pens (light), qty 5	\$125.00 <b>\$112.50</b>
ONE-MK-2D: Specimen Marking Pens (dark), qty 5	\$125.00 <b>\$112.50</b>
ONE-MK-HCC: High contrast clips, qty 10	\$35.00 <b>\$31.50</b>
ONE-78PT-OPTICS: 78 mm field of view; 200 mm working distance	\$17,780.00 <b>\$16,002.00</b>
ONE-52PT-OPTICS: 52 mm field of view; 150 mm working distance	\$12,680.00 <b>\$11,412.00</b>
ONE-130PT-OPTICS: 130 mm field of view; 200 mm working distance	\$27,395.00 <b>\$24,655.50</b>
ONE-200CE-OPTICS: 200 mm field of view; 220 mm working distance	\$10,780.00 <b>\$9,702.00</b>
ONE-SIG, Analog Output Cable	\$160.00 <b>\$144.00</b>
ONE-MS-BR: Base Rail Assembly	\$390.00 <b>\$351.00</b>
ONE-BIS-01: Barrier Interlock System, for existing door panel assembly	\$485.00 <b>\$436.50</b>
ONE-BIS-02: Barrier Interlock System, complete system	Inquire <b>Inquire</b>
ONE-CTRL-MNT, Sensor Controller mounting bracket	\$240.00 <b>\$216.00</b>
ONE-MKT-xxxx, Additional GL Template at stocked length	\$50.00 <b>\$45.00</b>
ONE-MKT-C-xxxx, Additional GL Template at non-stocked length	\$300.00 <b>\$270.00</b>



CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

### Model 3442AVG Averaging Axial Extensometer

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
Standard configurations	\$4,870.00	\$5,130.00	\$5,700.00	\$5,550.00	\$5,930.00
<b>10% Discount</b>					
Standard configurations	\$4,383.00	\$4,617.00	\$5,130.00	\$4,995.00	\$5,337.00
3442AVG-KE (set of four)	LIST \$460.00		10% Discount \$414.00		
3442AVG-0150-D-ADAPTER: 1.5" (38 mm) diameter modification (at build only)	\$270.00		\$243.00		

### Model 3560 Extensometer

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
Averaging Axial	\$5,095.00	\$5,355.00	\$5,925.00	\$5,775.00	\$6,155.00
Biaxial	\$5,655.00	\$6,045.00	\$6,900.00	\$6,675.00	\$7,245.00
<b>10% Discount</b>					
Averaging Axial	\$4,585.50	\$4,819.50	\$5,332.50	\$5,197.50	\$5,539.50
Biaxial	\$5,089.50	\$5,440.50	\$6,210.00	\$6,007.50	\$6,520.50
3560-0150-W-ADAPTER: 38 mm (1.5") width adapter (not diameter)	LIST \$420.00		10% Discount \$378.00		
3560-0200-W-ADAPTER: 50 mm (2") width adapter (not diameter)	\$460.00		\$414.00		
3560-0200-R-ADAPTER: Fits specimens up to 50 mm width and depth, or 50 mm diameter	\$590.00		\$531.00		

### Model 3800 High Elongation Elastomer and Plastic Extensometer

LIST	10% Discount
1" (25 mm) Gauge Length	\$4,285.00 \$3,856.50
2" (50 mm) Gauge Length	\$4,435.00 \$3,991.50
3800-SPK, Spare Part Kit	\$320.00 \$288.00
20 mm Gauge Length Adapter (from 25 mm)	\$415.00 \$373.50
50 mm Gauge Length Adapter (from 25 mm)	\$160.00 \$144.00
100 mm Gauge Length Adapter (from 25 mm)	\$330.00 \$297.00

### Laser Extensometers

	LIST
Model LE-05	\$20,980.00
LE-05-TRIPOD	\$1,600.00
RTT-01: Reflective adhesive tape, roll 1/8" x 20 ft long (80°C)	\$125.00
HTT-01: Reflective strip, 1/8" x 3 inches (425°C)	\$125.00
Reusable High Temp Mechanical Clips for HTT-01 (geometry dependent)	\$2,500.00



CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

## HIGH TEMPERATURE AXIAL EXTENSOMETERS

### Model 3448 Self Supporting Axial Furnace Extensometer

	LIST	10% Discount
Standard configuration	\$4,515.00	\$4,063.50
-AC Fan	\$300.00	\$270.00
For replacement contact rods see pricing further down this section (1200°C rods only)		
3448-CORDS: Spare Cord Set, 8 per set	\$380.00	\$342.00
3448-TABS: Spring Tabs, 2 per set	\$50.00	\$45.00
3448-XXXX-ADAPTER: Gauge Length Adapter Kit	\$1,000.00	\$900.00

### Model 3549, Hot-Mountable Extensometer, Water Cooled

	LIST	10% Discount
1200°C, -ST version	\$7,590.00	\$6,831.00
1600°C, -HT version	\$9,440.00	\$8,496.00
For replacement contact rods see pricing further down this section		
EPS170: Constant-temperature recirculating chiller (10% discount)	\$4,125.00	\$3,712.50
Optional 3549-VAC, Vacuum configuration	\$290.00	\$261.00
3549-EPS170-Retrofit	\$700.00	\$630.00
3549-EPS170-Retrofit with repair required (recal extra)	\$400.00	\$360.00
For mounting systems see pricing further down this document		
Sub-10 mm gauge length Configuration (5 mm, 6 mm, 7 mm, 8 mm, 9 mm, 0.25")	\$350.00	\$315.00
3549-XXXX-ADAPTER: gauge length adapter kit (10 mm, 12.5 mm, 15 mm, 20 mm, 25 mm, 30 mm, 35 mm, 40 mm, 45 mm, 50 mm, 0.50", 0.75", 1.0", 1.5", 2.0", inquire with Epsilon)	\$440.00	\$396.00

### Model 3648, Hot-Mountable Capacitive Extensometer, Water Cooled

	LIST	10% Discount
1200°C, -ST version	\$9,700.00	\$8,730.00
1600°C, -HT version	\$11,550.00	\$10,395.00
For replacement contact rods see pricing further down this section		
Constant-temperature recirculating chiller (10% discount)	\$4,125.00	\$3,712.50
3648 measuring range reconfiguration (no repair required)	\$1,070.00	\$963.00
For mounting systems see pricing further down this document		
3603 signal conditioner replacement (10% Discount)	\$3,685.00	\$3,316.50
VREF	\$540.00	\$486.00
3648-010M-ADAPTER: 10 mm gauge length spacer	\$650.00	\$585.00
3648-025M-ADAPTER: 25 mm gauge length spacer	\$440.00	\$396.00
3648-050M-ADAPTER: 50 mm gauge length spacer	\$440.00	\$396.00

### Model 7642 Uncooled Capacitive Axial Extensometer

	LIST	10% Discount
700°C (1300°F), Includes signal conditioner	\$10,075.00	\$9,067.50
700°C (1300°F), transducer only	\$5,540.00	\$4,986.00
DT6229-01: Signal Conditioner, Single Channel	\$4,535.00	\$4,081.50
DT6229-02: Signal Conditioner, Dual Channel	\$7,530.00	\$6,777.00
DT6229-01-UPGRADE: Add channel to single channel Sig. C.	\$2,990.00	\$2,691.00
7642-XXXX-ADAPTER: Gauge length adapter kit (300°C or less)	\$635.00	\$571.50
7642-XXXX-SPACER: Gauge length spacer kit for 2.5 mm and 0.10 inch measuring range configurations (300°C or less)	\$195.00	\$175.50
7642-14-01 wireforms for round samples	\$135.00	\$121.50
7642-15-01 wireforms for flat samples	\$135.00	\$121.50
7642-SPK, 7642 Spare Parts Kit Replacement	\$200.00	\$180.00
7642-BHA: Bulk Head Adapter Assembly (P/N BJ78HS only)	\$650.00	\$585.00
DT6229-PS-US: US/Canada Power Supply Assembly	\$105.00	\$94.50
DT6229-PS-WW: World-wide Power Supply Assembly	\$115.00	\$103.50
DT6229-SIG-xx-yyyy: Analog Output Cable; xx: connector, yy: Length	\$140.00	\$126.00
CAP-SVT-HT, Span vs Temperature, 4-point elevated temp (540°C max, CAP Ext)	\$1,600.00	\$1,440.00
764x-Sensor-Cable-1.5M: Spare Room Temp Transducer Cable, 1.5 m (5 feet)	\$355.00	\$319.50
HT-PROBE: Replacement High Temperature Probe	\$3,050.00	\$2,745.00



CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

Model 7650A, High Temperature, Low Strain, Extended Performance Capacitive Extensometers		
	LIST	10% Discount
1200°C, -ST version	\$12,860.00	\$11,574.00
1600°C, -HT version	\$14,710.00	\$13,239.00
764x-Sensor-Cable-2.0M: Spare Room Temp Transducer Cable, 2.0 m (6.6 feet)	\$355.00	\$319.50
For replacement contact rods see pricing further down this section		
For mounting systems see pricing further down this document		
EPS170: Constant-temperature recirculating chiller (10%)	\$4,125.00	\$3,712.50

Replacement Contact Rods/Sleeves for Furnace Extensometers		
	LIST	10% Discount
SLEEVE-XXXX, ceramic rod sleeving for minimizing thermal turbulence, set of 2	\$175.00	\$157.50
STDCHL-XXXX-ST: Standard chisel Alumina Rods, 2 per set, 1200°C	\$225.00	\$202.50
VEE-XXXX-ST: Vee chisel Alumina Rods, 2 per set, 1200°C	\$260.00	\$234.00
CON-XXXX-ST: Conical tipped Alumina Rods, 2 per set, 1200°C	\$225.00	\$202.50
STDCHL-XXXX-HT: Standard chisel SiC Rods, 2 per set, 1600°C	\$1,150.00	\$1,035.00
VEE-XXXX-HT: Vee chisel SiC Rods, 2 per set, 1600°C	\$1,195.00	\$1,075.50
CON-XXXX-HT: Conical tipped SiC Rods, 2 per set, 1600°C	\$1,150.00	\$1,035.00

### TRANSVERSE AND DIAMETRAL EXTENSOMETERS

Model 3475 Miniature Transverse Extensometer						
	LIST Prices	-ST	-HT1	-HT2	-LT	-LHT
Standard Models		\$2,870.00	\$3,000.00	\$3,285.00	\$3,210.00	\$3,400.00
10% Discount						
Standard Models		\$2,583.00	\$2,700.00	\$2,956.50	\$2,889.00	\$3,060.00

  

Model 3575 Transverse Extensometer						
	LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
±2.5 mm (±0.100 inch) measuring range and less		\$2,725.00	\$2,855.00	\$3,140.00	\$3,065.00	\$3,255.00
±3.0 mm (±0.150 inch) measuring range and more		\$2,790.00	\$2,920.00	\$3,205.00	\$3,130.00	\$3,320.00
10% Discount						
±2.5 mm (±0.100 inch) measuring range and less		\$2,452.50	\$2,569.50	\$2,826.00	\$2,758.50	\$2,929.50
±3.0 mm (±0.150 inch) measuring range and more		\$2,511.00	\$2,628.00	\$2,884.50	\$2,817.00	\$2,988.00

  

	LIST	10% Discount
3575-LD-OPTION: 25mm/1 inch to 50 mm/2 inch dia. range	\$290.00	\$261.00

### HIGH TEMPERATURE TRANSVERSE AND DIAMETRAL EXTENSOMETERS

Model 3580, Transverse Furnace Extensometer, Water Cooled		
	LIST	10% Discount
1000°C, -ST version ≤ 2 mm (0.075 inch) meas. Range	\$4,905.00	\$4,414.50
1000°C, -ST version > 2 mm (0.075 inch) meas. Range, NTE 5 mm	\$8,580.00	\$7,722.00
1200°C, -HT version (any available meas. range)	Inquire	Inquire
3580-MNT: Interface plate to adapt to a customer's custom mounting bracket or furnace	\$605.00	\$544.50
3580-ROD-XXXX-ST: Standard Chisel Quartz Rods, 2 per set, 1000°C	\$220.00	\$198.00
EPS170: Constant-temperature recirculating chiller (10% discount)	\$4,125.00	\$3,712.50

  

Model 7675 Uncooled Capacitive Transverse Extensometer		
	LIST	10% Discount
700°C (1300°F), Includes signal conditioner	\$10,650.00	\$9,585.00
700°C (1300°F), transducer only	\$6,115.00	\$5,503.50
DT6229-01: Signal Conditioner, Single Channel	\$4,535.00	\$4,081.50
DT6229-02: Signal Conditioner, Dual Channel	\$7,530.00	\$6,777.00
DT6229-01-UPGRADE: Add channel to single channel Sig. C.	\$2,990.00	\$2,691.00
7675-BHA: Bulk Head Adapter Assembly (P/N BJ78HS only)	\$650.00	\$585.00
DT6229-PS-US: US/Canada Power Supply Assembly	\$105.00	\$94.50
DT6229-PS-WW: World-wide Power Supply Assembly	\$115.00	\$103.50
DT6229-SIG-xx-yyyy: Analog Output Cable; xx: connector, yy: Length	\$140.00	\$126.00
CAP-SVT-HT, Span vs Temperature, 4-point elevated temp (540°C max, CAP Ext)	\$1,600.00	\$1,440.00
764x-Sensor-Cable-1.5M: Spare Room Temp Transducer Cable, 1.5 m (5 feet)	\$355.00	\$319.50
HT-PROBE: Replacement High Temperature Probe	\$3,050.00	\$2,745.00





CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

### FRACTURE MECHANICS CLIP-ON GAGES

#### Model 3541 COD Gage

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
Standard Models	\$1,795.00	\$1,925.00	\$2,210.00	\$2,135.00	\$2,325.00
E399 Version	\$1,795.00	\$1,925.00	\$2,210.00	\$2,135.00	\$2,325.00
<b>10% Discount</b>					
Standard Models	\$1,615.50	\$1,732.50	\$1,989.00	\$1,921.50	\$2,092.50
E399 Version	\$1,615.50	\$1,732.50	\$1,989.00	\$1,921.50	\$2,092.50
BOKE: Bolt-on Knife Edges, set of 2		LIST \$110.00	<b>10% Discount \$99.00</b>		
3541 Narrow Body Config (fully custom build) - additional cost, TWO typically required		\$3,590.00	\$3,231.00		
3541 narrow tip modification (Epsilon internal)		\$690.00	\$621.00		

#### Model 3548COD Furnace COD Gage, Water Cooled

	LIST	<b>10% Discount</b>
1200°C, -ST version	\$6,865.00	\$6,178.50
1600°C, -HT version	\$8,735.00	\$7,861.50
3548COD-MNT: Interface plate to adapt to a customer's custom mounting bracket or furnace	\$605.00	\$544.50
3548COD-ROD-XXM-XXXX-ST: Alumina COD Rods, 2 per set, 1200°C	\$260.00	\$234.00
3548COD-ROD-XXM-XXXX-HT: SiC COD Rods, 2 per set, 1600°C	\$1,195.00	\$1,075.50
EPS170: Constant-temperature recirculating chiller (10% discount)	\$4,125.00	\$3,712.50

#### Model 7641 Uncooled Capacitive COD Gage

	LIST	<b>10% Discount</b>
700°C (1300°F), Includes signal conditioner, Gen2	\$10,650.00	\$9,585.00
700°C (1300°F), Transducer Only, Gen2	\$6,115.00	\$5,503.50
7641-E399-CAL	\$1,075.00	\$967.50
DT6229-01: Signal Conditioner, Single Channel	\$4,535.00	\$4,081.50
DT6229-02: Signal Conditioner, Dual Channel	\$7,530.00	\$6,777.00
DT6229-01-UPGRADE: Add channel to single channel Sig. Cond.	\$2,990.00	\$2,691.00
7641-BHA: Bulk Head Adapter Assembly (P/N BJ78HS only)	\$650.00	\$585.00
DT6229-PS-US: US/Canada Power Supply Assembly	\$105.00	\$94.50
DT6229-PS-WW: World-wide Power Supply Assembly	\$115.00	\$103.50
DT6229-SIG-xx-yyyy: Analog Output Cable; xx: connector, yy: Length	\$140.00	\$126.00
CAP-SVT-HT, Span vs Temperature, 4-point elevated temp (540°C max, CAP Ext)	\$1,600.00	\$1,440.00
764x-Sensor-Cable-1.5M: Spare Room Temp Transducer Cable, 1.5 m (5 feet)	\$355.00	\$319.50
HT-PROBE: Replacement High Temperature Probe	\$3,050.00	\$2,745.00
7641-26-TIP: Replacement 7641 Gen2 Arm Tips, Set of 2	\$360.00	\$324.00
GEN1 ONLY: 7641-KE: Optional Mounting Tips (extended and/or narrow)	\$260.00	\$234.00

## ROCK, CONCRETE, AND ASPHALT EXTENSOMETER

### Model 3442RA1 Miniature Dual Averaging Rock and Concrete Extensometer

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
With 25 mm or 50 mm (1 or 2 inch) Gauge Length; For Samples 50 mm (2 inches) or smaller in diameter	\$5,185.00	\$5,445.00	\$6,015.00	\$5,865.00	\$6,245.00
<b>10% Discount</b>					
With 25 mm or 50 mm (1 or 2 inch) Gauge Length; For Samples 50 mm (2 inches) or smaller in diameter	\$4,666.50	\$4,900.50	\$5,413.50	\$5,278.50	\$5,620.50

### Model 3542RA Dual Averaging Axial Extensometer

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
RA1: 25 mm, 50 mm, 100 mm (1, 2 or 4 inch) gauge length, 50 mm (2 inch) diameter sample	\$4,670.00	\$4,930.00	\$5,500.00	\$5,350.00	\$5,730.00
RA1: >100 mm to 200 mm (>4 to 8 inches) gauge lengths plus intermediate gls, 50 mm to 200 mm (2 inch to 8 inch) diameter sample	\$4,990.00	\$5,250.00	\$5,820.00	\$5,670.00	\$6,050.00
RA2: 50 mm to 200 mm (2 to 8 inch) gauge length (specify), 50 to 150 mm (2" to 6") diameter range (continuously adjustable)	\$5,140.00	\$5,400.00	\$5,970.00	\$5,820.00	\$6,200.00
<b>10% Discount</b>					
RA1: 25 mm, 50 mm, 100 mm (1, 2 or 4 inch) gauge length, 50 mm (2 inch) diameter sample	\$4,203.00	\$4,437.00	\$4,950.00	\$4,815.00	\$5,157.00
RA1: >100 mm to 200 mm (>4 to 8 inches) gauge lengths plus intermediate gls, 50 mm to 200 mm (2 inch to 8 inch) diameter sample	\$4,491.00	\$4,725.00	\$5,238.00	\$5,103.00	\$5,445.00
RA2: 50 mm to 200 mm (2 to 8 inch) gauge length (specify), 50 to 150 mm (2" to 6") diameter range (continuously adjustable)	\$4,626.00	\$4,860.00	\$5,373.00	\$5,238.00	\$5,580.00

### Model 3544 Circumferential Extensometer (Rock and Concrete)

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
100 mm (4 inch) diameter samples	\$5,175.00	\$5,305.00	\$5,590.00		
150 mm (6 inch) diameter samples	\$5,550.00	\$5,680.00	\$5,965.00		
200 mm (8 inch) diameter samples	\$5,900.00	\$6,030.00	\$6,315.00		
<b>10% Discount</b>					
100 mm (4 inch) diameter samples	\$4,657.50	\$4,774.50	\$5,031.00		
150 mm (6 inch) diameter samples	\$4,995.00	\$5,112.00	\$5,368.50		
200 mm (8 inch) diameter samples	\$5,310.00	\$5,427.00	\$5,683.50		
		LIST	10% Discount		
3544-CHAIN: Additional Chain (per inch)		\$70.00	\$63.00		
3544-HOR: Horizontal Adjustment		\$85.00	\$76.50		

### Model 3909 Axial Asphalt Extensometer

LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT
3" or 4" gauge length	\$2,310.00	\$2,440.00	\$2,725.00	\$2,650.00	\$2,840.00
10% Discount					
3" or 4" gauge length	\$2,079.00	\$2,196.00	\$2,452.50	\$2,385.00	\$2,556.00
LIST			10% Discount		
3909-0300-ADAPTER, 3 inch adapter, each		\$190.00	\$171.00		
3909-0400-ADAPTER, 4 inch adapter, each		\$245.00	\$220.50		
3909-070M-ADAPTER, 70 mm adapter, each		\$245.00	\$220.50		
3909-GP: Gauge Points		\$5.00	\$4.50		
3909-Gluing-Fixture		\$3,685.00	\$3,316.50		
- Configurable for gauge point mounting at 120°, 180°, and 90°; - Specimen diameters from 38mm (1.5") to 150mm (6") with discrete marking at 38mm (1.5"), 50mm (2"), 76mm (3"), 100mm (4"), 150mm (6"); - Specimen height up to 150mm (6"); - Specimen Gauge Length of 25 mm, 50 mm, and continuously adjustable from 70mm (2.75") to 100mm (4")					



CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

Model 3910 Bi-Axial Asphalt Extensometer						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard gauge lengths (two typically required)	\$4,605.00	\$4,865.00	\$5,435.00	\$5,285.00	\$5,665.00	
<b>10% Discount</b>						
Standard gauge lengths (two typically required)	\$4,144.50	<b>\$4,378.50</b>	\$4,891.50	<b>\$4,756.50</b>	\$5,098.50	
LIST		<b>10% Discount</b>				
3910-0100-ADAPTER, 1 inch gauge length adapter	\$365.00	<b>\$328.50</b>				
3910-0150-ADAPTER, 1.5 inch gauge length adapter	\$365.00	<b>\$328.50</b>				
3910-0300-ADAPTER, 3.0 inch gauge length adapter	\$460.00	<b>\$414.00</b>				
3910-0400-ADAPTER, 4.0 inch gauge length adapter	\$580.00	<b>\$522.00</b>				
Template for Gluing Gauge Points	\$1,370.00	<b>\$1,233.00</b>				
3910-GP: Gauge Points	\$5.00	<b>\$4.50</b>				

  

Model 3911 Indirect Tensile Asphalt Extensometers						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard Model	\$4,660.00	\$4,790.00	\$5,075.00	\$5,000.00	\$5,190.00	
<b>10% Discount</b>						
Standard Model	\$4,194.00	<b>\$4,311.00</b>	\$4,567.50	<b>\$4,500.00</b>	\$4,671.00	

  

Model 3975 Diametral Extensometer for Rock, Asphalt and Concrete						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard Model	\$4,455.00	\$4,585.00	\$4,870.00	\$4,795.00	\$4,985.00	
<b>10% Discount</b>						
Standard Model	\$4,009.50	<b>\$4,126.50</b>	\$4,383.00	<b>\$4,315.50</b>	\$4,486.50	
LIST		<b>10% Discount</b>				
3975-xxxx-FRAME, Additional Frames	\$1,095.00	<b>\$985.50</b>				

## DEFLECTOMETERS

Model 3540 Deflectometer						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard Models	\$2,680.00	\$2,810.00	\$3,095.00	\$3,020.00	\$3,210.00	
<b>10% Discount</b>						
Standard Models	\$2,412.00	<b>\$2,529.00</b>	\$2,785.50	<b>\$2,718.00</b>	\$2,889.00	
LIST		<b>10% Discount</b>				
3540-ARM: Spare or replacement arm	\$190.00	<b>\$171.00</b>				
3540-MAG: Optional MB-DG10533 Magnetic Mounting Base with 6+ simultaneous degrees of freedom.	\$260.00	<b>\$234.00</b>				
MB-PH2040E: Included with base model	\$260.00	<b>\$234.00</b>				
3540-COIL, replacement spring set for Gen2 3540	\$10.00	<b>\$9.00</b>				
V3 - Large measuring range configuration (+additional)	\$210.00	<b>\$189.00</b>				
3540-TIP: Replacement (set of both)	\$35.00	<b>\$31.50</b>				
3540-RODCLIP (4521-12-60-2)	\$30.00	<b>\$27.00</b>				
3540-SPRING, 352527-01	\$15.00	<b>\$13.50</b>				

## SPECIALTY EXTENSOMETERS

Model 3421 Sandwich Core Shear and Rigid Cellular Plastic Shear Testing Extensometers						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard Build, $\pm 5.0$ mm	\$4,445.00	\$4,575.00	\$4,860.00	\$4,785.00	\$4,975.00	
<b>10% Discount</b>						
Standard Build, $\pm 2.5$ mm	<b>\$4,445.00</b>	<b>\$4,575.00</b>	<b>\$4,860.00</b>	<b>\$4,785.00</b>	<b>\$4,975.00</b>	
<b>10% Discount</b>						
Standard Build, $\pm 5.0$ mm	\$4,000.50	<b>\$4,117.50</b>	\$4,374.00	<b>\$4,306.50</b>	<b>\$4,477.50</b>	
Standard Build, $\pm 2.5$ mm	<b>\$4,000.50</b>	<b>\$4,117.50</b>	<b>\$4,374.00</b>	<b>\$4,306.50</b>	<b>\$4,477.50</b>	

  

Model 3550 Axial-Torsional Extensometer						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard Models	\$9,670.00	\$10,190.00	\$11,330.00	\$11,030.00	\$11,790.00	
<b>10% Discount</b>						
Torsion Only Models	<b>\$7,725.00</b>	<b>\$7,985.00</b>	<b>\$8,555.00</b>	<b>\$8,405.00</b>	<b>\$8,785.00</b>	
<b>10% Discount</b>						
Standard Models	\$8,703.00	<b>\$9,171.00</b>	\$10,197.00	<b>\$9,927.00</b>	<b>\$10,611.00</b>	
Torsion Only Models	<b>\$6,952.50</b>	<b>\$7,186.50</b>	<b>\$7,699.50</b>	<b>\$7,564.50</b>	<b>\$7,906.50</b>	

Model 3565 Bolt Extensometer						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard	\$3,430.00	\$3,560.00	\$3,845.00	\$3,770.00	\$3,960.00	
<b>3565E, Longer Arms</b>	<b>\$3,860.00</b>	<b>\$3,990.00</b>	<b>\$4,275.00</b>	<b>\$4,200.00</b>	<b>\$4,390.00</b>	
<b>10% Discount</b>						
Standard	\$3,087.00	\$3,204.00	\$3,460.50	\$3,393.00	\$3,564.00	
<b>3565E, Longer Arms</b>	<b>\$3,474.00</b>	<b>\$3,591.00</b>	<b>\$3,847.50</b>	<b>\$3,780.00</b>	<b>\$3,951.00</b>	
		LIST	<b>10% Discount</b>			
3565-11-0700: 178 mm (7 inch) gauge length adapter		\$235.00	<b>\$211.50</b>			
3565-11-1200: 305 mm (12 inch) gauge length adapter		\$340.00	<b>\$306.00</b>			
3565-11-1800: 457 mm (18 inch) gauge length adapter		\$510.00	<b>\$459.00</b>			

Model 3567 Rebar Coupler Extensometer						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
95 to 675 mm (two modules)	\$7,875.00	\$8,135.00	\$8,705.00	\$8,555.00	\$8,935.00	
<b>95 to 975 mm (two modules)</b>	<b>\$8,230.00</b>	<b>\$8,490.00</b>	<b>\$9,060.00</b>	<b>\$8,910.00</b>	<b>\$9,290.00</b>	
<b>10% Discount</b>						
95 to 675 mm (two modules)	\$7,087.50	\$7,321.50	\$7,834.50	\$7,699.50	\$8,041.50	
<b>95 to 975 mm (two modules)</b>	<b>\$7,407.00</b>	<b>\$7,641.00</b>	<b>\$8,154.00</b>	<b>\$8,019.00</b>	<b>\$8,361.00</b>	
		LIST	<b>10% Discount</b>			
3567-03-x: Additional collar clamps per set		\$675.00	<b>\$607.50</b>			
Third module (-ST) (+additional)		\$3,595.00	<b>\$3,235.50</b>			
3565-11-0700: 178 mm (7 inch) gauge length adapter		\$235.00	<b>\$211.50</b>			
3565-11-1200: 305 mm (12 inch) gauge length adapter		\$340.00	<b>\$306.00</b>			
3565-11-1800: 457 mm (18 inch) gauge length adapter		\$510.00	<b>\$459.00</b>			

Model 4013 Averaging Extensometer for ASTM D5656 Shear Tests						
LIST PRICES	-ST	-HT1	-HT2	-LT	-LHT	
Standard Model	\$6,760.00	\$7,020.00	\$7,590.00	\$7,440.00	\$7,820.00	
<b>10% Discount</b>						
Standard Model	\$6,084.00	<b>\$6,318.00</b>	\$6,831.00	<b>\$6,696.00</b>	\$7,038.00	
		LIST	<b>10% Discount</b>			
EN14869-2 Version, 0.5 mm and 1.0 mm measuring range only (+additional)		\$1,985.00	<b>\$1,786.50</b>			

**Model 4030 Submersible Extensometer, Axial and COD**

Currently Unavailable

Model 7650, High Temperature Axial/Torsional Extensometers		
	LIST	10% Discount
1200°C, -ST version	\$17,945.00	\$16,150.50
1600°C, -HT version	\$19,795.00	\$17,815.50
764x-Sensor-Cable-2.0M: Spare Room Temp Transducer Cable, 2.0 m (6.6 feet)	\$355.00	\$319.50
For replacement contact rods see pricing in high temperature axial extensometer section		
For mounting systems see pricing further down this document		
EPS170: Constant-temperature recirculating chiller (10% discount)	\$4,125.00	\$3,712.50

Model 7651, High Temperature XY Planar Biaxial Extensometer		
	LIST	10% Discount
1200°C, -ST version	\$26,075.00	\$23,467.50
1600°C, -HT version	\$29,775.00	\$26,797.50
764x-Sensor-Cable-2.0M: Spare Room Temp Transducer Cable, 2.0 m (6.6 feet)	\$355.00	\$319.50
For replacement contact rods see pricing in high temperature axial extensometer section		
For mounting systems see pricing further down this document		
EPS170: Constant-temperature recirculating chiller (10% discount)	\$4,125.00	\$3,712.50

## ELECTRONICS

### Electronics

	LIST	10% Discount
<b>Model SGA Analog Signal Conditioner</b>		
SGA-1: 1 Channel	\$1,690.00	\$1,521.00
<b>SGA-2: 2 Channel</b>	<b>\$2,625.00</b>	<b>\$2,362.50</b>
DSCUSB	\$900.00	\$810.00
DSCX	Coming Soon	Coming Soon

## CALIBRATORS

### Model 3590 Digital Electronic Calibrator

	LIST	10% Discount
Includes 0.375" (9.52 mm) diameter posts and foam lined case	\$4,000.00	\$3,600.00
<b>3590-01: 0.25" (6.35 mm) diameter posts</b>	<b>\$195.00</b>	<b>\$175.50</b>
3590-02: flat specimen adapters	\$380.00	\$342.00
<b>3590-03: clip-on fracture mechanics gage adapters</b>	<b>\$295.00</b>	<b>\$265.50</b>
3590-04: transverse extensometer adapters (3560 only)	\$355.00	\$319.50
<b>3590-04-KIT: Transverse adapter kit (3560 only)</b>	<b>\$750.00</b>	<b>\$675.00</b>
3590-06: adapters for averaging axial extensometers	\$750.00	\$675.00
<b>3590-08: 3910 or 3909 adapter posts</b>	<b>\$505.00</b>	<b>\$454.50</b>
3590-11 transverse extensometer adapters	\$305.00	\$274.50
<b>3590-11-KIT, Transverse adapter kit (for horizontal orientation)</b>	<b>\$700.00</b>	<b>\$630.00</b>
3590-12, Mini C(T) specimen adapters	\$485.00	\$436.50
<b>3590-3540: Model 3590 Adapter Assembly for the 3540 Deflectometer</b>	<b>\$330.00</b>	<b>\$297.00</b>
3590-3421: adapters for Model 3421 extensometer	\$550.00	\$495.00
<b>3590-3548: adapters for Model 3548COD high temperature extensometer</b>	<b>\$545.00</b>	<b>\$490.50</b>
3590-3549: adapters for Model 3549 extensometer	\$300.00	\$270.00
<b>3590-3580: adapters for Model 3580 transverse extensometer</b>	<b>\$815.00</b>	<b>\$733.50</b>
3590-3648: adapters for Model 3648 extensometer	\$300.00	\$270.00
<b>3590-4013: adapters for Model 4013 extensometer</b>	<b>\$510.00</b>	<b>\$459.00</b>
	\$320.00	\$288.00
<b>3590-55-10: 10 inch (250 mm) extension column</b>	<b>\$590.00</b>	<b>\$531.00</b>
3590-55-24: 24 inch (600 mm) extension column	\$700.00	\$630.00
<b>3590-7650: 7650/7650A adapters</b>	<b>\$1,025.00</b>	<b>\$922.50</b>

### Model 3590VHR High Resolution Digital Electronic Calibrator

	LIST	10% Discount
3590VHR, includes Touch Display and software on USB stick	\$7,570.00	\$6,813.00
<b>3590VHR-TD-UPGRADE, add Touch Display to Gen1</b>	<b>\$615.00</b>	<b>\$553.50</b>
<b>3590VHR (+Recal Required)</b>		
3590VHR-TD-ENV, add Environmental Sensor	\$245.00	\$220.50
<b>3590VHR-PWR, Touch display power supply</b>	<b>\$70.00</b>	<b>\$63.00</b>
3590VHR-RENTAL, USA only, per week price	\$970.00	\$873.00
<b>P201-15R USB</b>	<b>\$765.00</b>	<b>\$688.50</b>
<b>All adapters listed for the 3590 are compatible with the 3590VHR</b>		
<b>3590VHR-C02, ISO Class 0,2 Device (available only with a new purchase)</b>	<b>\$1,275.00</b>	<b>\$1,147.50</b>

### Model 3590-TORSION Torsional Adapter Assembly for the 3590 and 3590VHR

	LIST	10% Discount
3590-TORSION Add-On	\$5,900.00	\$5,310.00
<b>3590VHR-TOR-RET: Retrofit 3590VHR's for compatibility with the 3590-TORSION add-on</b>	<b>\$1,875.00</b>	<b>\$1,687.50</b>



CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

<b>Mounting Systems for the ONE and Furnace Extensometers</b>		
	<b>LIST</b>	<b>10% Discount</b>
ONE-MS-01/MS-01: Universal T-Slot Mounting System for t-slot spacings of 15-33 mm, 40-58 mm, and 70-83 mm	\$1,090.00	\$981.00
9902-17 adapter plate for t-slot ranges of 32-40 mm, 58-70 mm, 83-107 mm	\$750.00	\$675.00
ONE-MS-02/MS-02: Universal Base Mounting System (Price for column height up to 36". Additional costs required for heights greater than 36".)	\$1,925.00	\$1,732.50
ONE-MS-03A/MS-03A: Universal Cylindrical Column Mounting System (2", 2.5" or 3" diameter columns)	\$1,600.00	\$1,440.00
ONE-MS-03B/MS-03B: Universal Cylindrical Column Mounting System (50 mm, 55 mm, 60 mm, 65 mm, 70 mm, 75 mm, 80 mm, 100 mm, 3.25", 3.5", or 4" diameter columns)	\$1,700.00	\$1,530.00
ONE-MS-03C/MS-03C: column diameters not covered above	Inquire	Inquire
ONE-MS-04A/MS-04A: Fixed Cylindrical Column Mounting System (2", 2.5" or 3" diameter columns)	\$1,050.00	\$945.00
ONE-MS-04B/MS-04B: Fixed Cylindrical Column Mounting System (50 mm, 55 mm, 60 mm, 65 mm, 70 mm, 75 mm, 80 mm, 100 mm, 3.25", 3.5", or 4" diameter columns)	\$1,150.00	\$1,035.00
ONE-MS-04C/MS-04C: column diameters not covered above	Inquire	Inquire
MS-StH, Interface plate for static hydraulic machines; engineering review required	Inquire	Inquire
Mounts designed for one extensometer on one test machine; Inclusion of additional extensometers or test systems will have additional cost	\$250+ Inquire with Epsilon	\$250+ Inquire with Epsilon
MS-CC-XXXX, 1.25 inch to <2 inches, set of two	\$610.00	\$549.00
MS-CC-0200, 2 inch collar clamps, set of two	\$530.00	\$477.00
MS-CC-0250, 2.5 inch collar clamps, set of two	\$530.00	\$477.00
MS-CC-0300, 3 inch collar clamps, set of two	\$530.00	\$477.00
MS-CC-0400, 4 inch collar clamps (and <2" on PL)	\$610.00	\$549.00
MS-CC-065M, 65 mm collar clamps, set of two	\$610.00	\$549.00
MS-CC-100M, 100 mm collar clamps, set of two	\$610.00	\$549.00

<b>REPAIRS/CALIBRATIONS</b>		
	<b>LIST</b>	<b>10% Discount</b>
Recalibration: Re-calibration of extensometer	\$325.00	--N/A--
SG-SVT-HT, Span vs Temp: 4-point elevated Temperature (SG Ext)	\$1,235.00	\$1,111.50
SG-SVT-LT, Span vs Temp: Temp Sweep, LN2 to RT (SG Ext)	\$1,165.00	\$1,048.50
SG-SVT-FULL, Span vs Temp: LN2 to Ext Max Temp (SG Ext)	\$2,390.00	\$2,151.00
CAP-SVT-HT, Span vs Temperature, 4-point elevated temp (540°C max, CAP Ext)	\$1,600.00	\$1,440.00
3590-CAL: ISO 17025 Accredited recalibration of 3590 Calibrator; Tensile direction (default); As-received, as-left, minor performance adjustments	\$665.00	--N/A--
3590-CAL-COMP: Optional ISO 17025 Accredited recalibration of 3590 Calibrator in the compressive direction; As-received, as-left, minor performance adjustments	\$330.00	--N/A--
3590VHR-CAL: ISO 17025 Accredited recalibration of 3590VHR Calibrator; Tensile direction (default); As-received, as-left, minor performance adjustments	\$825.00	--N/A--
3590VHR-CAL-COMP: Optional ISO 17025 Accredited recalibration of 3590VHR Calibrator in the compressive direction; As-received, as-left, minor performance adjustments	\$415.00	--N/A--
3590AT-CAL: ISO 17025 Accredited recalibration of 3590AT Calibrator	\$1,325.00	--N/A--
3590VHR-AT-CAL: ISO 17025 Accredited recalibration of 3590VHR-AT Calibrator	\$1,490.00	--N/A--
Non-warranty repairs	Consult Factory	Consult Factory



CONFIDENTIAL INFORMATION  
2024 Educational Discount, Rev 2

9/5/2024

TEMPERATURE OPTIONS, AS APPLICABLE		
	LIST	10% Discount
-HT1, -40°F to 300°F (-40°C to 150°C)	\$130.00	\$117.00
-HT2, -40°F to 400°F (-40°C to 200°C)	\$415.00	\$373.50
-LT, -454°F to 210°F (-270°C to 100°C)	\$340.00	\$306.00
-LHT, -454°F to 400°F (-270°C to 200°C)	\$530.00	\$477.00
<i>*Long term use (creep, cyclic testing, etc.) to up to 175°C; short term use (static testing with indefinite, unloaded soaking) between 175°C and 200°C</i>		
Temperature adaptations are per channel:		
2x for AVG models		
3x for BIA models		
4x for AXIAL/TORSIONAL models		

OTHER CONNECTORS		
	LIST	10% Discount
MTS MS 165-15-1002: MTS older type Amphenol 165 connector (large silver 9 pin connector)	\$750.00	--N/A--
INSTRON 25PIN: Instron self-identifying connector (D-sub 25 pin). New extensometers, per strain channel cost	\$190.00	\$171.00
UNITED-CON: United Connectors	\$65.00	\$58.50
Shimadzu Calibration Cable, 347-50215-01 (AG-I), 348-31180-01 (AGX), -05 (UH-X, AGS-X), 336-01064-11 (AGX-V)	\$715.00	\$643.50
CABLE-ST-xxx: Additional -ST cable beyond standard 2.4 m (8 feet); per foot cost	\$4.75	\$4.28
CABLE-HT1-xxx, CABLE-HT2-xxx: Additional HT1 or HT2 cable beyond standard 2.4 m (8 feet); per foot cost	\$30.00	\$27.00
CABLE-LT-xxx: Additional -LT/-LHT cable beyond standard 2.4 m (8 feet); per foot cost	\$9.00	\$8.10
-25PIN: Installation of Instron self-id on an existing extensometer; removal of existing connector and installation of the Instron compatible connector, includes calibration	\$490.00	\$441.00
CONN-INST: Installation of a new connector for different electronics	\$105.00	\$94.50
ADAPTER-CABLE-xxxx: Adapter cables	\$250+	\$250+

EXPEDITING FEE	
Check for availability, for 3-5 day turn around on -ST model	
EXPEDITING: Available on select models only.	\$665.00



**APPENDIX C: COST SHEET**

**Strain Gages, Accessories, and Calibration, Support, and Repair Services**

WSU NIAR is requesting a standard discount on proposals for the purchase of strain sensors/gages for a wide range of applications, including but not limited to stress analysis gage patterns, special purpose gages, high temperature gages, and custom strain gages.

Suppliers may also quote a discounted rate on accessories for these sensors such as tools, wiring, data loggers, acquisition, amplifiers, signal conditioners, software, and other hardware.

Suppliers may also quote a discounted rate on support for repair and calibration services for sensors/gages and other equipment for which they supply.

This Request is for an open-ended contract between a supplier and WSU to furnish an undetermined quantity of goods and/or services in a given period of time at the lowest price available through their catalog at discounted prices.

An estimated quantity based on history or other means may be used as a guide.

Category	% Discount Offered	Additional Discounts Available but not listed
Standard in stock Strain Gages/Sensors	30%	Additional discounts may be available depending on the quantity ordered.
Custom Strain Gages/Sensors	Not applicable, as the gauges are specifically designed for NIAR in collaboration with NIAR.	Additional discounts may be available depending on the quantity ordered.
Accessories for the strain gauges/sensors	5% off all accessories when ordered through the HBM Webshop.	Custom bundle pricing is available for select accessories for NIAR via a specialized webshop interface.
Technical Support and Repair Services	Free Virtual Technical Support	
On-Site Support and Repair Services including Calibration Services	10% off on onsite training and up to 16% off calibration	Receive up to 10% off on repairs, depending on the product.

Additional Benefits of the HBK/NIAR Partnership
A personalized webshop interface designed for a quick and seamless purchasing experience.
Exclusively custom strain gauges designed for NIAR.
Complimentary on-site support visits.
HBK maintains safety stock of custom gauges to ensure equipment availability for NIAR.



These Terms and Conditions of Sale and Supply ("Terms and Conditions") shall apply to the Contract between Supplier and WSU ("Buyer") which shall be deemed to incorporate and be governed by these mutually negotiated Terms and Conditions. These Terms and Conditions shall take precedence over any terms and conditions which appear in Buyer's order or in any documents incorporated by reference in Buyer's order. Supplier's acceptance of Buyer's order is conditioned upon Buyer's acceptance of the Terms and Conditions set forth herein. No term or condition of Buyer's order additional to or different from these Terms and Conditions shall become part of the Contract unless explicitly agreed to in writing by Supplier. Retention by Buyer of any Products delivered by Supplier, or payment by Buyer of any invoice rendered hereunder, shall be conclusively deemed acceptance of these Terms and Conditions. Supplier's failure to object to any provision contained in any communication from Buyer shall not be construed as a waiver of these Terms and Conditions nor as an acceptance of any such provision.

**1. Interpretation;** For the purposes of these Terms and Conditions of Sale and Supply ("Terms and Conditions"):

**"Buyer"** means the person, company or other entity which places an order for the purchase of Products and/or Services as identified in any such order or Proposal as the case may be.

**"Contract"** means the agreement between the Supplier and the Buyer arising as a result of the Buyer's submission of an order for the Supplier's Products and/or Services and Supplier's written acceptance. Such Contract shall be deemed to incorporate and be governed by these Conditions.

**"Products"** means goods supplied as agreed to be supplied by the Supplier to the Buyer under any Contract including, where applicable, any software, with the exception of Prensia Software and related services.

**"Prensia Software"** means software from the Supplier's product portfolio which is marketed under the brand names "Prensia", "ReliaSoft" or "nCode".

**"Services"** means any services which the Supplier has agreed to provide to the Buyer under any Contract.

**"Supplier"** means Hottinger Bruel & Kjaer Inc.

Such contract shall be deemed to incorporate and be governed by these Terms and Conditions. These Terms and Conditions shall take precedence over any terms and conditions which appear in Buyer's order or in any documents incorporated by reference in Buyer's order. Supplier's acceptance of Buyer's order is conditioned upon Buyer's acceptance of the terms and conditions

set forth herein. No term or condition of Buyer's order additional to or different from these Terms and Conditions shall become part of the contract unless explicitly agreed to in writing by Supplier. Retention by Buyer of any Products delivered by Supplier, or payment by Buyer of any invoice rendered hereunder, shall be conclusively deemed acceptance of these Terms and Conditions. Supplier's failure to object to any provision contained in any communication from Buyer shall not be construed as a waiver of these Terms and Conditions nor as an acceptance of any such provision.

**2. Quotations:** Prices, specifications and dates for delivery referenced in Supplier's quotations are for information purposes only and shall not be binding on Supplier until all technical requirements have been agreed and Supplier has accepted Buyer's order. Quotations terminate if not accepted by Buyer within 30 days.

**3. Orders:** By submitting an order to Supplier, Buyer agrees to be subject to these Terms and Conditions of Sale in their entirety. All orders must be bona fide commitments showing definite prices and quantities and mutually agreed shipping dates. No order, whether or not submitted in response to a quotation by Supplier, shall be binding upon Supplier until accepted in writing by Supplier.

**4. Prices and Taxes:** Prices do not include federal, state or local taxes, including without limitation sales, use or excise taxes now or hereafter enacted, or export or import charges or duties, applicable to the Products and Services sold under a Contract. Such taxes that Supplier is obligated under law to collect or pay may, in Supplier's discretion, be added by Supplier to the sales price or billed separately and which taxes shall be paid by Buyer unless Buyer provides Supplier with any necessary tax exemption certificate. For purposes of clarity, Buyer shall be responsible for paying directly to the appropriate taxing authority any taxes that Supplier is not obligated to collect, and that Buyer is obligated to pay directly (such as use taxes). Unless otherwise agreed, Buyer shall be liable to pay Supplier's export or import duties and charges for import clearance.

**5. Shipment and Delivery:** All Products will be shipped Carriage and Insurance Paid (CIP) to agreed place of destination (Incoterms 2020). Products may be so shipped in several lots. In the absence of specific instructions, Supplier will select the carrier and ship prepaid, but shall not be deemed thereby to assume any liability in connection with the shipment nor

shall the carrier be construed to be the agent of Supplier.

- 6. Passing of Risk and Title:** Subject to Section 8, title to the Products shall pass to the Buyer upon receipt of final payment. The risk of loss and damage to the Products shall pass to the Buyer as per the delivery and shipping terms in accordance with Section 5. Any claims for loss, damage or misdelivery thereafter shall be filed with the carrier. All Products shall be deemed finally inspected and accepted within ten days after delivery unless notice of rejection is given in writing to Supplier within such period. Acceptance shall constitute acknowledgement of full performance by Supplier of all obligations under the contract except as stated in Section 12 (Warranties).
- 7. Terms of Payment:** Each shipment shall be a separate transaction and Buyer will be invoiced on date of shipment. Unless otherwise stated on Supplier's invoice, terms of payment shall be net thirty (30) days from date of invoice. . If Buyer fails to pay any payment due hereunder when due, Supplier may recover, in addition to the payment, interest thereon at the rate of 1.5% per month where lawful, otherwise the maximum lawful monthly interest rate, and reasonable collection expenses, .
- 8. RESERVE.**
- 9. Force Majeure:** Notwithstanding anything to the contrary in these Terms and Conditions, Supplier shall not be liable to Buyer for any loss or damage which may be suffered by Buyer as a direct or indirect result of the supply of Products or Services being prevented, delayed or rendered uneconomic by reason of circumstances or events beyond the Supplier's reasonable control, including, by way of illustration but not limitation, war (whether an actual declaration thereof is made or not), sabotage, insurrection, riot or other act of civil disobedience, act of a public enemy, failure or delay in transportation, act of any government or any agency or subdivision thereof, judicial action, labor dispute, accident, fire, explosion, floods, storm, pandemic or other act of God, shortage of labor, fuel, raw material or machinery or technical failure where Supplier has exercised ordinary care in the prevention thereof. If any such event occurs, Supplier may allocate production and deliveries among Supplier's customers.

**10. Modification of Specifications:** Supplier may modify specifications of Products provided the modifications do not adversely affect the performance of Products to be supplied under the Contract. In addition, Supplier may furnish suitable substitutes for materials unobtainable because of priorities or regulations established by government authority, or nonavailability of materials from suppliers. To the extent an order consists of third party equipment not sold directly by Supplier (as opposed to Supplier's and its affiliates' Products that are listed on Supplier's product lists) ("Third Party Equipment"), then Supplier shall purchase such Third Party Equipment on Buyer's behalf, passing title and any warranties and any other rights to such Third Party Equipment received by Supplier to Buyer, and Buyer shall pay Supplier the amount specified in the applicable order for such Third Party Equipment. Buyer's sole rights and remedies with respect to Third Party Equipment shall be governed by the applicable manufacturer's terms and conditions and Buyer shall have no liability under this or any agreement with respect to such Third Party Equipment (other than to deliver the Third Party Equipment identified in the applicable order). For purposes of clarity, such Third Party Equipment shall not be deemed "Product" hereunder.

**11. Software:** Supplier and its licensors and suppliers shall at all times have and retain title and full ownership of all software, firmware programming routines, and documentation thereof supplied by Supplier for use with Products, and of all copies thereof made by Buyer (collectively "software"). If software is owned by a third party and a license from such third party is being provided to Buyer, then (i) the scope of the rights and entitlements granted to the Buyer shall be determined in accordance with the third party's license terms, which Supplier will include in the delivery and which Supplier will send in advance upon request by Buyer and (ii) Supplier will provide suitable advance notice to the Buyer in the event that software from third parties will be included in the delivery (e.g., by naming the third party manufacturer in the order documentation). The foregoing applies specifically to software such as operating systems and comparable components of the delivered Products. For all other software delivered to Buyer by Supplier for installation and use by Buyer on computers (i.e., software not embedded in Products), Supplier grants Buyer a non-exclusive and nontransferable license to use such software solely for use in

conjunction with the Products and solely on a single computer system for each copy (other than update or replacement copies) delivered to Buyer. Buyer shall not transfer or otherwise provide such software to any third party except to transfer such software with the applicable Product to a third party, in which case the software must be completely deleted from the Buyer's system and the media on which it was delivered, including all documentation related thereto, must be transferred to the purchaser of the Product, such that the Buyer does not keep a copy of the software and that the Buyer no longer uses the software. Buyer shall not, and shall not permit any third party, to: (a) modify or create any derivative work of any part of the software; (b) rent, lease, or loan the software; (c) permit any third parties to use the software; (d) disassemble, decompile or reverse engineer the software or otherwise attempt to gain access to the source code of the software; (e) sell, license, sublicense, publish, display, distribute, assign or otherwise transfer to a third party the software, any copy thereof, or any rights thereto, in whole or in part, except to the extent expressly permitted herein; (f) copy the software except for installing and loading the software into computer memory for the purpose of executing the program and except to make a reasonable number of copies solely for back-up and testing purposes; and/or (g) use the software in a service bureau or software as a service capacity.

## **12. Warranties:**

(a) Supplier warrants that all Products shall be free from defects in material and workmanship under normal use for a period of one year from delivery to the Buyer, provided, however, that Supplier makes no warranty regarding software, all software is delivered "as is", and Supplier disclaims any warranty that the operation of the software will be uninterrupted or error free or that all program errors will be corrected. The Buyer shall be responsible for determining that the Product is suitable for the Buyer's use and that such use complies with applicable laws.

Buyer's sole remedy for a breach of the limited warranty contained in this Section 12(a) shall be for Supplier to either, in Supplier's discretion, (i) repair or replace the defective Products or media, shipment to Buyer prepaid, or (ii) refund Buyer the purchase price paid by Buyer to Supplier for the defective Product with Buyer with title to and possession of the defective Product reverting to Buyer. Notwithstanding the foregoing,

Supplier shall only have an obligation or liability under this limited warranty if (1) Buyer notifies Supplier in writing of any claimed defect in the product immediately upon discovery, (2) such Product is returned to the original shipping point, transportation charges prepaid, within one year from date of shipment to Buyer, (3) the Product was not modified, altered or repaired by a party other than Supplier after delivery to Buyer, and (4) upon examination Supplier determines to its satisfaction that such Product is defective in material or workmanship, i.e. contains a defect arising out of the manufacture of the Product and not a defect caused by other circumstances, including, but not limited to, accident, misuse, unforeseeable use, neglect, alteration, improper installation, improper adjustment, improper repair, or improper testing, any drawing, design or specification supplied by the Buyer or from other materials or other property supplied by the Buyer or from any parts or items that have not been completely manufactured by the Supplier. Supplier shall have reasonable time to make such repairs or to replace such Product. Any repair or replacement of a Product shall not extend the period of warranty.

This warranty is limited to a period of one year, without regard to whether any claimed defects were discoverable or latent on the date of shipment. If Buyer shall fail to pay when due any portion of the purchase price or any other payment required from Buyer to Supplier under this contract or otherwise, all warranties and remedies granted under this Section 12 may, at Supplier's option, be terminated. Except for the express warranty in this Section 12(a), which is in lieu of all other warranties, Supplier disclaims all other representations or warranties, express or implied, with respect to the Products, any defects therein, or the delivery thereof of any nature whatever, including without limitation warranties of merchantability or fitness for a particular purpose.

(b) Supplier warrants that it shall perform the Services substantially in accordance with the Proposal and with reasonable skill and care.

Services which do not conform with the warranty under Section 12(b) and which are notified to the Supplier within ten (10) days of the Buyer becoming aware of the same, and in any event no later than two (2) months after the date on which the Services were performed, shall, if the Supplier agrees they were non-conforming, be re-performed as soon as reasonably practicable after the Supplier's receipt of notice of the non-conforming Services. If the Supplier fails to rectify any deficient performance of the Services, the Buyer's sole remedy

shall be reimbursement of that portion of the fees attributable to the Services concerned. This warranty for Services is in lieu of all other warranties, and Supplier disclaims all other representations or warranties, express or implied, with respect to the Services.

**13. Intellectual Property Indemnification:**

Supplier shall defend any suit or proceeding brought against Buyer to the extent that it is based on a claim that the manufacture or delivery of any Product by Supplier infringes a copyright or a United States patent of a third party, and shall indemnify Buyer against all costs, damages and expenses finally awarded against Buyer provided that Buyer notifies Supplier promptly in writing of any such claim and gives Supplier full and complete authority, information and assistance for the defense of such claim and provided further that Supplier shall have sole control of the defense and of the negotiations for settlement, if any, of such claim. If the manufacture or delivery of any product by Supplier is held directly to infringe any United States patent and the use of such product is enjoined, or in case any product may, in the opinion of Supplier, be held to infringe, Supplier may, at its expense and option, either (a) procure for Buyer the right to continue using such product, (b) replace such product with a suitable noninfringing product, (c) suitably modify such product so that it is not infringing, or (d) refund the purchase price of such product, less depreciation at twenty percent (20%) per year, and accept its return. Supplier shall not be liable for any cost or expense incurred without Supplier's written authorization. Supplier shall not be obligated to defend or be liable for costs and damages if the infringement arises out of compliance with Buyer's specification or from a combination with or an addition to the product not manufactured or developed by Supplier or a modification of the product after delivery or the use of product beyond that established by Supplier or approved in writing by Supplier. The foregoing states the entire liability of Supplier, and the exclusive remedy of Buyer, with respect to any alleged intellectual property infringement with respect to Products.

**14. Limitation of Liability and Buyer Indemnity:**

(a) In no event, regardless of the form of action, shall Supplier be liable for any special, indirect, incidental, punitive, or consequential losses or damages arising out of the sale of its Products or Services to Buyer or arising out of anything done in connection with the Contract, including, but not limited to, losses or damages arising out of claims for loss of use, business, goodwill, or profits, and claims arising out of third party actions,

regardless of whether such third party actions, or any other claims, losses, or damages, were reasonably foreseeable to Buyer or Supplier. The parties agree that, with respect to all claims and damages arising under the Contract or otherwise involving the Products and/or Services or Buyer's obligations under the Contract, whether based upon Contract, warranty, tort (including, but not limited to, negligence, warranty and strict liability), the aggregate liability of Supplier shall not exceed the aggregate purchase price paid to Supplier by Buyer of the Products and/or Services in respect to which damages are claimed. (b) Buyer shall, to the extent permitted by Kansas law and without waiving any applicable immunities or defenses, indemnify and hold harmless Supplier, its officers, agents, employees, subsidiaries, parents, affiliates and insurers from and against any and all liabilities, damages, losses, claims, lawsuits, including costs and expenses in connection therewith, for death or injury to any persons or loss of any property whatsoever, caused in any manner by Buyer's possession, use or operation of Products purchased under the Contract, except to the extent due to Supplier's negligence or willful misconduct.

**15. Intellectual Property:** As between Supplier and Buyer, Supplier and its licensors and suppliers own and shall retain all proprietary rights, including any and all patent, copyright, trade secret, trademark and other intellectual property rights, in and to the Products delivered to Buyer. Buyer shall not reverse engineer any Product. Buyer shall not remove, erase, or modify any copyright, trademark, patent, confidentiality, and/or other notices, marks or legends affixed by Supplier or its suppliers to the Products.

**16. Confidential Information:** Each party undertakes to keep confidential, not use for its own purposes and not without the prior written consent of the other party disclose to any third party, any information of a confidential nature belonging or relating to the other party or any of its affiliated companies which may become known to it unless such information is or becomes public knowledge (other than by breach of this Section) or is required to be disclosed by governmental or judicial order, applicable law, or subpoena of a competent authority.

**17. Rescheduling and Cancellation:** Orders accepted by Supplier may be cancelled or rescheduled by Buyer only with the written consent of Supplier (which consent Supplier may withhold for any reason) and upon payment of Supplier's cancellation or rescheduling charges. Buyer must request rescheduling at least 30 days prior to the initial mutually agreed

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shipping date and the rescheduled delivery date must be less than 30 days from the initial mutually agreed shipping date, otherwise rescheduling may at Supplier's option be considered a cancellation by Buyer. If Buyer cancels order 30 days or fewer from date of acceptance of the order by Supplier, Supplier may recover from Buyer a cancellation charge of 20% of cancelled order purchase price. If Buyer cancels order greater than 30 days from date of acceptance of the order by Supplier, Supplier may recover from Buyer a cancellation charge of 50% of cancelled order purchase price. Supplier shall have the right without penalty or payment to cancel any order accepted (i) if Buyer fails to make any payment when due to Supplier under the Contract or any other contract (ii) if any act or omission of Buyer delays Supplier's performance, (iii) if Buyer violates any of these Terms and Conditions, or (iv) if Buyer's credit becomes impaired; and in the event of such cancellation Supplier shall be entitled to receive reimbursement for its reasonable and proper cancellation charges.

Notwithstanding the foregoing, orders for Products with a Product number beginning with the letter "K" are custom built or configured Products ("K Products") which may not be cancelled without Supplier's written consent. Supplier may, in its sole discretion, withhold consent for cancellation of an order for K Products or may require payment of cancellation charges in excess of its standard cancellation charges set forth above for non-K Products.

**18. Returns: Restocking and Repair Charges:** Products accepted by Buyer may only be returned to Supplier (i) as expressly permitted under Sections 12(a) and 13 or (ii) with the written consent of Supplier (which consent Supplier may withhold for any reason), and in each case any Products returned must include in the shipping bill the return to manufacture authorization code (RMA Code) provided by Supplier to Buyer for such purpose (and which Supplier shall not unreasonably withhold). If Buyer requests to return Products that are not in breach of Supplier's warranty for credit and if Supplier, in its sole discretion, agrees to allow such a return (which consent Supplier may withhold for any or no reason), then the credit amount will be the original purchase price minus a restocking charge of 20% of original purchase price. In addition to the restocking charge, the credit amount will be further reduced by the replacement cost of any missing components and the cost of recalibration and any repair. A fee of \$250 will be charged for the evaluation of non-warranty Products returned for repair in addition to payment of Supplier's time to repair such Products (at its then current rates) and the cost of any materials, parts or components

consumed or incorporated as part of such repair. All return of Products shall be shipped by Buyer at Buyer's expense with risk of loss shifting to Supplier upon delivery at Supplier's facility. Costs for the removal of Products returned to Supplier by Buyer and for their reinstallation upon return to Buyer after their repair or replacement shall be Buyer's responsibility (regardless why returned).

**19. Non-Waiver, Remedies:** No waiver of any breach of these Terms and Conditions shall constitute a waiver of any prior or subsequent breach of any similar or dissimilar provision or a modification of the Contract. All Supplier rights and remedies, whether evidenced hereby or by any other contract or document, shall be cumulative and nonexclusive and may be exercised singularly or concurrently.

**20. Governing Law and Venue, Severability, Interpretation:** All questions concerning the validity, operation, interpretation, and construction of the Contract will be governed by and determined in accordance with the substantive laws of the State of Kansas of the United States of America and with United States of America federal law without regard to conflicts of law provisions. Both parties acknowledge and agree that the U.N. Convention on Contracts for the International Sale of Goods shall not apply to the Contract. Other than as necessary to enforce any final judgment, award or determination, any action brought pursuant to or in connection with this Agreement shall be brought only in the state or federal courts within Sedgwick County, Kansas and in any such action, both parties submit to the personal jurisdiction of such state and federal courts situated in the State of Kansas and waive any objections to venue of such courts. If any provision of these Terms and Conditions is held to be unenforceable, such holding shall not affect the enforceability of any other provision- Any legal presumption that terms in this Contract shall be strictly construed against the party who drafted such terms or who benefits from such terms shall not be employed in construing and interpreting this Contract. Notwithstanding any attempts to resolve differences or negotiations regarding such differences, any action brought by Buyer against Supplier arising out of this Contract or Buyer's purchase and use of the Products must be commenced within one year after such action accrues and in no event later than two years after date of shipment of such Products.

**21. Waiver of Jury Trial:** Buyer and Supplier hereby irrevocably waive, to the fullest extent permitted by applicable law, any and all right to trial by

jury in any legal proceeding arising out of or relating to this Agreement or the transactions contemplated hereby.

**22. Government Contracts:** If the Products to be furnished under the Contract are to be used in the performance of a U.S. Government contract or subcontract, the Government contract number and a statement to that effect shall appear on Buyer's purchase order. If Buyer's purchase order includes all of said information and if said order is accepted in writing by Supplier, then those clauses of the applicable Government procurement regulations which are mandatorily required by Federal statute or regulation to be included in this Contract shall be incorporated herein by reference. In all other events, said clauses shall not be incorporated herein by reference. If any software delivered as a product or component of a product is licensed to the U.S. government or for use in the performance of a U.S. government prime contract or subcontract, Buyer agrees that the software is delivered as "Commercial computer software" as defined in DFARS 252.227-7014 (Feb 2014), or as a "commercial item" as defined in FAR 2.101(a), or as "Restricted computer software" as defined in FAR 52.227-14 (May 2014) (or any equivalent agency regulation or contract clause), whichever is applicable. Buyer further agrees and acknowledges that such software has been developed entirely at private expense by Supplier and or its licensees and suppliers.

**23. Export:** Regardless of any disclosure made by Buyer to Supplier of the ultimate destination of Products, Buyer shall not export either directly or indirectly any Product, or any system incorporating said Product either in contravention of statute or regulation or without first obtaining all required licenses and permits from the United States Department of Commerce and any other relevant agencies or departments of the United States government or, if being exported from a country other than the United States, in compliance with the applicable laws of such country.

**24. Assignment:** The Contract shall be binding upon and inure to the benefit of the parties and their respective legal representatives, successors and permitted assigns. The Contract is personal to Buyer, and Buyer may not assign any of its rights or delegate any of its obligations thereunder, in whole or in part, without the prior written consent of Supplier which may be withheld for any reason.

**25. Complete Agreement, Modifications:** This Contract constitutes the entire agreement between the parties relating to the sale of Products and/or Services. It supersedes all prior written or oral agreements between Buyer and Supplier with respect to the matters addressed herein, and no addition to or modification of any provision of the Contract shall be binding upon Supplier unless agreed in writing by Supplier.

**26. Notices:** Any notice or demand required or permitted to be given by a party under the Contract shall be in writing and shall be deemed given (a) when delivered personally, (b) on the next business day after timely delivery to an overnight courier, or (c) on the third business day after deposit in the U.S. mail (certified or registered mail, return receipt requested, postage prepaid), in each case if addressed to the address of the other party set forth in the quotation or to such other address as such party may designate from time to time by such notice. WSU requests that a copy of such notices shall be sent to:

Wichita State University  
Attn: Office of General Counsel  
1845 Fairmount Street  
Wichita, KS 67260-0205

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**APPENDIX C: COST SHEET**

**Strain Gages, Accessories, and Calibration, Support, and Repair Services**

WSU NIAR is requesting a standard discount on proposals for the purchase of strain sensors/gages for a wide range of applications, including but not limited to stress analysis gage patterns, special purpose gages, high temperature gages, and custom strain gages.

Suppliers may also quote a discounted rate on accessories for these sensors such as tools, wiring, data loggers, acquisition, amplifiers, signal conditioners, software, and other hardware.

Suppliers may also quote a discounted rate on support for repair and calibration services for sensors/gages and other equipment for which they supply.

This Request is for an open-ended contract between a supplier and WSU to furnish an undetermined quantity of goods and/or services in a given period of time at the lowest price available through their catalog at discounted prices.

An estimated quantity based on history or other means may be used as a guide.

Category	% Discount offered	Additional discounts available but not listed
Standard in stock Strain Gages/Sensors	25%	
Custom Strain Gages/Sensors	25%	May vary based on custom part number.
Accessories for the Strain Gages/Sensors	25%	
Technical Support and Repair Services	Technical Support - FOC Repair Services - N/A	
On-Site Support and Repair Services including Calibration Services	On-Site Support - FOC Repair/Calibration Services - N/A	