

Appendix M

Tensiometer Certification

Demtech Services, Inc.
Placerville, California, USA

CALIBRATION CERTIFICATE

Customer Name: EC Applications, Inc.

Tensiometer Model: Pro-Tester T-0100

Device Calibrated: S-Type load cell
Range: 0 - 750 lbs. Tension
Model No: M2405-750#

Calibration Apparatus:

Reference load cell (S/N 204781)

Serial No: 209966

A/D Module Model No: T-029
A/D Module Serial No: 4306209966
Channel No: N/A

Dead Weight:

W1	2
W2	152
W3	302

Reference Cell:

R1	2
R2	152
R3	302

Indicator reading with no load: 0

Offset: 5.110448

Scale: 3.965642

Applied Force lbs.

2
52
102
152
202
252
302

Cell Response:

2
52
102
152
202
252
302

Deviation Error:

0.00
0.00
0.00
0.00
0.00
0.00
0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F
Excitation Voltage: 5 V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

Calibration Technician: JW

Date: 10/23/13

Demtech Services, Inc.
Placerville, California, USA

CALIBRATION CERTIFICATE

Customer Name: EC Applications, Inc.

Tensiometer Model: Pro-Tester T-0100

Device Calibrated: S-Type load cell
Range: 0 - 750 lbs. Tension

Calibration Apparatus:

Model No: M2405-750#
Serial No: 209966

Reference load cell (S/N 204781)

A/D Module Model No: T-029
A/D Module Serial No: 4306209966
Channel No: N/A

Dead Weight:

W1	2
W2	152
W3	302

Reference Cell:

R1	2
R2	152
R3	302

Indicator reading with no load: 0

Offset: 5.239339

Scale: 3.959420

Applied Force lbs.

2
52
102
152
202
252
302

Cell Response

2
52
102
152
202
252
302

Deviation Error

0.00
0.00
0.00
0.00
0.00
0.00
0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F
Excitation Voltage: 5 V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable

Calibration Technician:

JW

Date: 07/31/14

Demtech Services, Inc.
Placerville, California, USA

CALIBRATION CERTIFICATE

EC Applications

Tensiometer Model:

Pro-Tester T-0100

Device Calibrated:

S-Type load cell
0 - 750 lbs. Tension

Calibration Apparatus:

Range:

Model No:

M2405-750#

Pro-Cal unit, model TC-0100/A

Serial No:

241288

A/D Module Model No:

T-029

A/D Module Serial No:

4509241288

Channel No:

N/A

Dead Weight:

W1

2

W2

152

W3

302

Reference Cell:

R1

2

R2

152

R3

302

Indicator reading with no load:

0

Offset

2.253237

Scale:

5.050557

Applied Force lbs.

Cell Response:

Deviation Error:

2
52
102
152
202
252
302

2
52
102
152
202
252
302

0.00
0.00
0.00
0.00
0.00
0.00
0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration:

73 degrees F

Excitation Voltage:

5

V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

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JW

Date:

10/23/13

Demtech Services, Inc.
Placerville, California, USA

CALIBRATION CERTIFICATE

EC Applications

Tensiometer Model:

Pro-Tester T-0100

Device Calibrated:

S-Type load cell
0 - 750 lbs. Tension

Calibration Apparatus:

Range:

Model No:

M2405-750#

Pro-Cal unit, model TC-0100/A

Serial No:

241288

A/D Module Model No:

T-029

Dead Weight:

W1

2

Reference Cell:

R1

2

A/D Module Serial No:

4509241288

W2

152

R2

152

Channel No:

N/A

W3

302

R3

302

Indicator reading with no load:

0

Offset

2.052464

Scale:

5.038167

Applied Force lbs.

Cell Response:

Deviation Error:

2
52
102
152
202
252
302

2
52
102
152
202
252
302

0.00
0.00
0.00
0.00
0.00
0.00
0.00

Total Deviation Error (%) **0.00%**

Temperature at time of calibration: 73 degrees F

Excitation Voltage:

5

V DC

This calibration conforms to the standards set by ASTM E4 and is traceable to NIST standards

Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

JW

Date: 07/24/14

Demtech Services, Inc.
Placerville, California, USA

CALIBRATION CERTIFICATE

EC Applications

Tensiometer Model: Pro-Tester T-0100

Device Calibrated: S-Type load cell
Range: 0 - 750 lbs. Tension
Model No: M2405-750#
Serial No: 668903

Calibration Apparatus:
Pro-Cal unit, model TC-0100/A

A/D Module Model No: T-029
A/D Module Serial No: 2911668903
Channel No: N/A

Dead Weight:
W1 2
W2 152
W3 302

Reference Cell:
R1 2
R2 152
R3 302

Indicator reading with no load: 0

Offset: 1.173232 Scale: 3.189939

Applied Force lbs.

2
52
102
152
202
252
302

Cell Response:

2
52
102
152
202
252
302

Deviation Error:

0.00
0.00
0.00
0.00
0.00
0.00
0.00

Total Deviation Error (%): 0.00%

Temperature at time of calibration: 73 degrees F
Excitation Voltage: 5 V DC

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Note: A/D Module and load cell above have been systems calibrated and are considered a matched pair. In general, calibrated A/D Modules and load cells are not interchangeable.

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Date: 10/23/13

Demtech Services, Inc.
Placerville, California, USA

CALIBRATION CERTIFICATE

EC Applications

Tensiometer Model:

Pro-Tester T-0100

Device Calibrated:

S-Type load cell
0 - 750 lbs. Tension

Calibration Apparatus:

Range:

Model No:

M2405-750#

Pro-Cal unit, model TC-0100/A

Serial No:

668903

A/D Module Model No:

T-029

Dead Weight:

W1

2

Reference Cell:

R1

2

A/D Module Serial No:

2911668903

W2

152

R2

152

Channel No:

N/A

W3

302

R3

302

Indicator reading with no load:

0

Offset

1.284769

Scale:

3.189901

Applied Force lbs.

Cell Response:

Deviation Error:

2
52
102
152
202
252
302

2
52
102
152
202
252
302

0.00
0.00
0.00
0.00
0.00
0.00
0.00

Total Deviation Error (%) 0.00%

Temperature at time of calibration: 73 degrees F

Excitation Voltage: 5 V DC

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JW

Date:

7/24/2014