

POTENTIOMETER - CERTIFICATE OF CALIBRATION

Calibration No. PCAL000217B
Model No. 3670-11S
Technician A.Schrank-Berisha
Customer
Model No. 3670-11s
Serial No.
Test No. 8028

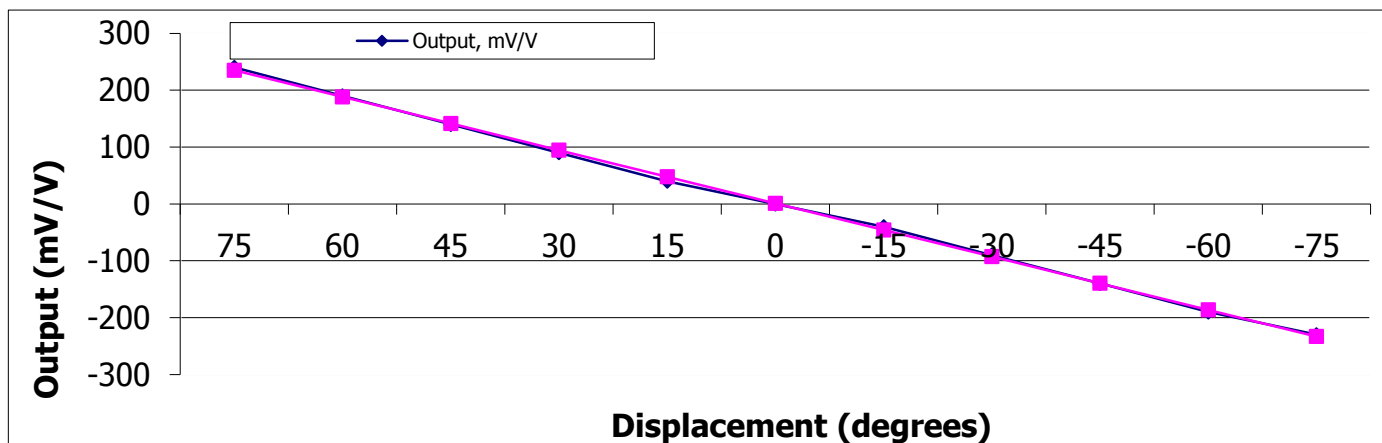
Date 16/04/2015
Last Calibrated N/A
Temp (C) 23.5
Hum. (%) 28
Calibration Standard CL-PR-00032P
Excitation (Volts) 5.00

| Actual Displacement (degrees) | Output V(sensor) | Output mV/V | Ideal Value mV/V | Error mV/V | Error % Non-Linearity |
|----------------------------------|---------------------|----------------|---------------------|---------------|--------------------------|
| 75.00 | -1.2286 | -245.712 | -247.000 | 1.288 | 0.268 |
| 60.00 | -0.9903 | -198.058 | -198.988 | 0.930 | 0.194 |
| 45.00 | -0.7554 | -151.080 | -150.975 | 0.105 | 0.022 |
| 30.00 | -0.5194 | -103.876 | -102.963 | 0.913 | 0.190 |
| 15.00 | -0.2796 | -55.922 | -54.951 | 0.971 | 0.202 |
| 0.00 | -0.0392 | -7.846 | -6.938 | 0.908 | 0.189 |
| -15.00 | 0.2047 | 40.948 | 41.074 | 0.126 | 0.026 |
| -30.00 | 0.4410 | 88.194 | 89.087 | 0.893 | 0.186 |
| -45.00 | 0.6830 | 136.598 | 137.099 | 0.501 | 0.104 |
| -60.00 | 0.9282 | 185.642 | 185.111 | 0.531 | 0.111 |
| -75.00 | 1.1740 | 234.792 | 233.124 | 1.668 | 0.347 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | |
|-----------------------|---------|
| Slope (V/deg): | -0.0160 |
| Intercept (V): | -0.0347 |

| | |
|---|---------------|
| Max Nonlinearity (% F.S.) | 0.3474 |
| Slope Coefficient (deg/mV/V) | 0.3124 |
| Calibration Factor (mV/V/deg) | 3.2008 |
| Angle Calibration Factor (V/V/deg) | 0.0032008 |

| | |
|---|-------------|
| HUMANETICS ACCEPTANCE SPECIFICATIONS | |
| Max Displacement Range: | 150 degrees |
| Linearity | 0.50% F.S. |



Equipment

| <u>Manufacturer</u> | <u>Instrument</u> | <u>Model No.</u> | <u>Serial No.</u> | <u>Report No.</u> | <u>Cal Due</u> |
|---------------------|-------------------|------------------|-------------------|-----------------------|----------------|
| Keithley | DAQ | 2000 | 613658 | 11651-D-K-15180-01-00 | 01/05/2016 |
| Surburban Tools | Rotary | CM-5C | 2459 | WO2803630001 | 01/08/2016 |

The equipment used during the calibration of this transducer is traceable to the Physikalisch-Technische Bundesanstalt (PTB)

The reference fixture is not traceable to the Physikalisch-Technische Bundesanstalt (PTB)

Calibrated by:

Humanetics Authorized Representative