SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Polytec, Inc.

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CALIBRATION

ISO/IEC 17025 Accreditation Granted: **24 February 2025**

Certificate Number: **AC-3356** Certificate Expiry Date: **24 February 2027**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Polytec Laser Velocity Decoders – AC Voltage	0.895 0 Vrms 0.990 0 Vrms 1.980 0 Vrms 2.475 0 Vrms 3.960 0 Vrms 4.950 0 Vrms	0.000 8 V 0.000 8 V 0.001 1 V 0.004 7 V 0.005 4 V 0.005 8 V	Comparison to Keithley / NI-USB Multimeter, Tektronix AFG Function Generator
Polytec Laser Displacement Decoders – AC Voltage	0.061 9 Vrms 0.247 5 Vrms 0.353 0 Vrms 0.495 0 Vrms 0.565 0 Vrms 0.742 5 Vrms 0.883 9 Vrms 0.990 0 Vrms 1.237 4 Vrms 1.361 2 Vrms 1.385 9 Vrms 1.414 0 Vrms 1.768 0 Vrms 1.980 0 Vrms 2.722 4 Vrms 2.771 9 Vrms	0.000 5 V 0.000 7 V 0.000 8 V 0.001 9 V 0.000 9 V 0.015 V 0.003 V 0.000 8 V 0.000 9 V 0.000 9 V 0.000 9 V 0.001 6 V 0.005 5 V 0.001 1 V 0.004 8 V 0.004 8 V	Comparison to Keithley / NI-USB Multimeter, Tektronix AFG Function Generator

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Polytec Laser Displacement Decoders – AC Voltage	2.828 0 Vrms 3.536 0 Vrms 4.950 0 Vrms	0.005 8 V 0.006 3 V 0.005 8 V	Comparison to Keithley / NI-USB Multimeter, Tektronix AFG Function Generator
Polytec Laser Acceleration Decoders – AC Voltage	0.028 3 Vrms 0.030 9 Vrms 0.061 9 Vrms 0.123 7 Vrms 0.247 5 Vrms 0.495 0 Vrms 0.990 0 Vrms 1.336 4 Vrms 1.385 9 Vrms 1.980 0 Vrms	0.000 4 V 0.000 4 V 0.000 4 V 0.000 4 V 0.000 6 V 0.000 7 V 0.000 8 V 0.000 9 V 0.000 9 V 0.001 1 V	Comparison to Keithley / NI-USB Multimeter, Tektronix AFG Function Generator
Polytec Laser Velocity Decoders – AC Voltage	0.020 0 Vrms 0.040 0 Vrms 0.050 0 Vrms 0.080 0 Vrms 0.100 0 Vrms 0.200 0 Vrms 0.204 1 Vrms 0.250 0 Vrms 0.400 0 Vrms 0.408 2 Vrms 0.500 0 Vrms 0.800 0 Vrms 0.816 3 Vrms 1.000 0 Vrms 2.000 0 Vrms 2.500 0 Vrms 4.000 0 Vrms 5.000 0 Vrms	0.000 8 V 0.001 5 V 0.001 9 V 0.003 V 0.003 7 V 0.007 4 V 0.014 V 0.015 V 0.015 V 0.019 V 0.018 V 0.032 V 0.032 V 0.039 V 0.074 V 0.093 V 0.15 V 0.18 V	Comparison to Keithley / NI-USB Multimeter, Metra MMF Mechanical Shaker

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Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Polytec Laser Displacement Decoders – AC Voltage	0.007 8 Vrms 0.015 6 Vrms 0.020 0 Vrms 0.031 3 Vrms 0.040 0 Vrms 0.040 8 Vrms 0.050 0 Vrms 0.062 5 Vrms 0.080 0 Vrms 0.081 6 Vrms 0.100 0 Vrms 0.125 0 Vrms 0.156 3 Vrms 0.200 0 Vrms	0.012 V 0.013 V 0.013 V 0.013 V 0.014 V 0.014 V 0.015 V 0.017 V 0.019 V 0.019 V 0.022 V 0.012 V 0.012 V 0.012 V	Comparison to Keithley / NI-USB Multimeter, Metra MMF Mechanical Shaker
Polytec Laser Displacement Decoders – AC Voltage	0.204 1 Vrms 0.250 0 Vrms 0.312 5 Vrms 0.400 0 Vrms 0.408 2 Vrms 0.500 0 Vrms 0.625 0 Vrms 0.781 3 Vrms 0.800 0 Vrms 0.816 3 Vrms 1.000 0 Vrms 1.250 0 Vrms 1.562 5 Vrms 2.000 0 Vrms 2.040 8 Vrms 2.500 0 Vrms 3.125 0 Vrms 4.081 6 Vrms 5.000 0 Vrms	0.012 V 0.012 V 0.012 V 0.012 V 0.012 V 0.012 V 0.026 V 0.031 V 0.032 V 0.032 V 0.039 V 0.047 V 0.059 V 0.074 V 0.076 V 0.093 V 0.12 V 0.15 V 0.18 V	Comparison to Keithley / NI-USB Multimeter, Metra MMF Mechanical Shaker

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Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Polytec Laser Acceleration Decoders – AC Voltage	0.020 0 Vrms 0.040 0 Vrms 0.080 0 Vrms 0.100 0 Vrms 0.200 0 Vrms 0.400 0 Vrms 0.800 0 Vrms 1.000 0 Vrms 2.000 0 Vrms	0.012 V 0.012 V 0.012 V 0.013 V 0.014 V 0.019 V 0.032 V 0.032 V 0.074 V	Comparison to Keithley / NI-USB Multimeter, Metra MMF Mechanical Shaker

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Jason Stine, Vice President

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