



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

**Greenwich Instrument Co. Inc.,
a division of Parker Medical Inc.**

**137 New Milford Road East
Bridgewater, CT 06752**

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

CALIBRATION

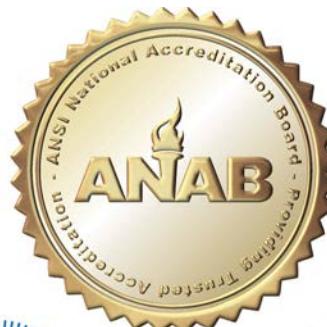
Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

AC-1406

Certificate Number

ANAB Approval

Certificate Valid Through: 08/20/2021
Version No. 005 Issued: 08/12/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Greenwich Instrument Co. Inc., a division of Parker Medical Inc.

137 New Milford Road East
Bridgewater, CT 06752
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CALIBRATION

Valid to: August 20, 2021

Certificate Number: AC-1406

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Dynalyzers and High Voltage Dividers	Nominal Voltage Ratio: 1 k, 10 k, 100 k		Spellman HVD-200 Voltage Divider, Spellman SL 300 Voltmeter
DC High Voltage (kVp)	(5 to 30) kV	0.22 % of Voltage Ratio	
Dynalyzers and High Voltage Dividers	Nominal Voltage Ratio: 1 k, 10 k, 100 k		Spellman HVD-200 Voltage Divider, Fluke 8845A Multimeter
DC High Voltage (kVp)	(30 to 150) kV	0.2 % of Voltage Ratio	
Dynalyzers and High Voltage Dividers	Nominal Voltage Ratio: 1 k, 10 k, 100 k		
Voltage Divider Frequency Response	DC to 500 Hz 500 Hz to 30 kHz	0.6 % of Voltage Ratio 2 % of Voltage Ratio	Fluke 8845A Multimeter
Anode Current Sensor	(1 to 500) mA	0.1 % of Voltage Ratio	
Dynalyzers and High Voltage Dividers	Nominal Voltage Ratio: 1 k, 10 k, 100 k		Fluke 8842A Multimeter, Fluke 80J-10 shunt
Filament Current Sensor	(1 to 8) A	0.3 % of Voltage Ratio	
Dynalyzer Digital Displays			
Peak Voltage	(20 to 150) kV	0.1 % of reading	
Anode Current	1 mA to 1 A	0.1 % of reading	Fluke 8845A Multimeter
Filament Current	(1 to 10) A	0.2 % of reading	
Dynalyzer Digital Displays			
Exposure time	50 ms to 1.5 s	1 ms ± 0.01 % of reading	HP5316B Counter



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Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
MAS Meter	MAS MA	0.05 % of reading 0.05 % of reading	Fluke 8845A Multimeter HP5316B Counter
DC Voltage - Source	Up to 330 mV 330 mV to 3.3 V (3.3 to 33) V (33 to 330) V 330 V to 1.02 kV	60 μ V/V + 3 μ V 50 μ V/V + 5 μ V 50 μ V/V + 50 μ V 55 μ V/V + 500 μ V 55 μ V/V + 1.5 mV	Fluke 5500A SC600 Multiproduct Calibrator
Resistance - Source	Up to 11 Ω (11 to 33) Ω (33 to 110) Ω (110 to 330) Ω 330 Ω to 1.1 k Ω (1.1 to 3.3) k Ω (3.3 to 11) k Ω (11 to 33) k Ω (33 to 110) k Ω (110 to 330) k Ω 330 k Ω to 1.1 M Ω (1.1 to 3.3) M Ω (3.3 to 11) M Ω (11 to 33) M Ω (33 to 110) M Ω (110 to 330) M Ω	120 μ Ω / Ω + 8 m Ω 120 μ Ω / Ω + 15 m Ω 90 μ Ω / Ω + 15 m Ω 90 μ Ω / Ω + 15 m Ω 90 μ Ω / Ω + 60 m Ω 90 μ Ω / Ω + 60 m Ω 90 μ Ω / Ω + 600 m Ω 90 μ Ω / Ω + 600 m Ω 110 μ Ω / Ω + 6 Ω 120 μ Ω / Ω + 6 Ω 150 μ Ω / Ω + 55 Ω 150 μ Ω / Ω + 55 Ω 600 μ Ω + 550 Ω 1 m Ω / Ω + 550 Ω 5 m Ω / Ω + 5.5 k Ω 5 m Ω / Ω + 16.5 k Ω	Fluke 5500A SC600 Multiproduct Calibrator
DC Current-Source	Up to 3.3 mA (3.3 to 33) mA (33 to 330) mA 330 mA to 2.2 A (2.2 to 11) A	130 μ A/A + 50 nA 100 μ A/A + 250 nA 100 μ A/A + 3.3 μ A 300 μ A/A + 44 μ A 600 μ A/A + 330 μ A	Fluke 5500A SC600 Multiproduct Calibrator



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Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
AC Voltage-Source	(1 to 33) mV (10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz (33 to 330) mV (10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz 330 mV to 3.3 V (10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz (3.3 to 33) V (10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (33 to 330) V 45 Hz to 1 kHz (1 to 10) kHz (10 to 20) kHz 330 V to 1.02 kV 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	3.5 mV/V + 20 µV 1.5 mV/V + 20 µV 2 mV/V + 20 µV 2.5 mV/V + 20 µV 3.5 mV/V + 33 µV 10 mV/V + 60 µV 2.5 mV/V + 50 µV 500 µV/V + 20 µV 1 mV/V + 20 µV 1.6 mV/V + 40 µV 2.4 mV/V + 170 µV 37 mV/V + 330 µV 1.5 mV/V + 250 µV 300 µV/V + 60 µV 800 µV/V + 60 µV 1.4 mV/V + 300 µV 2.4 mV/V + 1.7 mV 5 mV/V + 3.3 mV 1.5 mV/V + 2.5 mV 400 µV/V + 600 µV 800 µV/V + 2.6 mV 1.9 mV/V + 5 mV 2.4 mV/V + 17 mV 500 µV/V + 6.6 mV 800 µV/V + 15 mV 900 µV/V + 33 mV 500 µV/V + 80 mV 2 mV/V + 100 mV 2 mV/V + 500 mV	Fluke 5500A SC600 Multiproduct Calibrator



Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
AC Current-Source	(29 to 330) μ A (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz 330 μ A to 3.3 mA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (3.3 to 33) mA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (33 to 330) mA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz 330 mA to 2.2 A (10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (2.2 to 11) A (45 to 65) Hz (65 to 500) Hz 500 Hz to 1 kHz	2.5 mA/A + 150 nA 1.25 mA/A + 150 nA 1.25 mA/A + 250 nA 4 mA/A + 150 nA 12.5 mA/A + 150 nA 2 mA/A + 300 nA 1 mA/A + 300 nA 1 mA/A + 300 nA 2 mA/A + 300 nA 6 mA/A + 300 nA 2 mA/A + 3 μ A 1 mA/A + 3 μ A 900 μ A/A + 3 μ A 2 mA/A + 3 μ A 6 mA/A + 3 μ A 2 mA/A + 30 μ A 1 mA/A + 30 μ A 900 μ A/A + 30 μ A 2 mA/A + 30 μ A 6 mA/A + 30 μ A 2 mA/A + 300 μ A 1 mA/A + 300 μ A 7.5 mA/A + 300 μ A 600 μ A/A + 2 mA 1 mA/A + 2 mA 3.3 mA/A + 2 mA	Fluke 5500A SC600 Multiproduct Calibrator

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%.

Notes:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1406.



Vice President