Certificate of Calibration

P.O. Number: C/C

ID Number: X102

Description:

MODIFIED POWER PACK

Manufacturer: FLUKE

Model Number: 792A

Serial Number: X102

Technician:

JIM HYATT

On-Site Calibration:

Comments:

Calibration Date:

03/03/2020

Calibration Due:

03/03/2021

Procedure:

METCAL FLUKE 732A

Rev: 11/4/2017

Temperature:

71 ۰F

Humidity:

42 % RH

As Found Condition: IN TOLERANCE

Calibration Results: IN TOLERANCE

Limiting Attribute:

This instrument has been calibrated using standards traceable to the SI units through the National Institute of Standards and Technology (NIST) or other National Metrological Institute (NMI). The method of calibration is direct comparison to a known standard, derived from natural physical constants, ratio measurements or compared to consensus standards.

Reported uncertainties are expressed as expanded uncertainty values at an approximately 95% confidence level using a coverage factor of k=2. Statements of compliance are based on test results falling within specified limits with no reduction by the uncertainty of the measurement,

TMI's Quality System is accredited to ISO/IEC 17025:2017 and ANSI/NCSL Z540-1-1994. ISO/IEC 17025:2017 is written in a language relevant to laboratory operations, meeting the principles of ISO 9001 and aligned with its pertinent requirements. This calibration is within the current Scope of Accreditation and complies with the requirements of ISO/IEC 17025:2017 and TMI's Quality Manual, QM-1.

Results contained in this document relate only to the item calibrated. Calibration due dates appearing on the certificate or label are determined by the client for administrative purposes and do not imply continued conformance to specifications.

This certificate shall not be reproduced, except in full, without the written permission of Technical Maintenance, Inc.

Measurements not currently on TMI's Scope of Accreditation are identified with an asterisk.

WALLY GYNN, BRANCH MANAGER

Scott Chamberlain

Scott Chamberlain, QUALITY MANAGER

Calibration Standards

Asset Number Manufacturer Model Number **Date Calibrated** Cal Due 952383 **FLUKE** 732B 10/17/2019 10/17/2020 US36000197 HEWLETT PACKARD 34420A 1/15/2020 7/15/2020



Technical Maintenance, Inc.





Reported Value (Volts)	9,9999751
Todays Value (Valts)	9.9999728
Difference (ppm)	0.23
S _{aven} K=1 (ppm)	0.14
Expanded Unc (U 95) (ppm)	0.39

Regression Analysis						
-0.3804477613	-24.176					
0.189741641	0.433601051					
0.364812	0.73213943					
4.020358311	7					
2.155025208	3.752197015					
#N/A	#N/A					

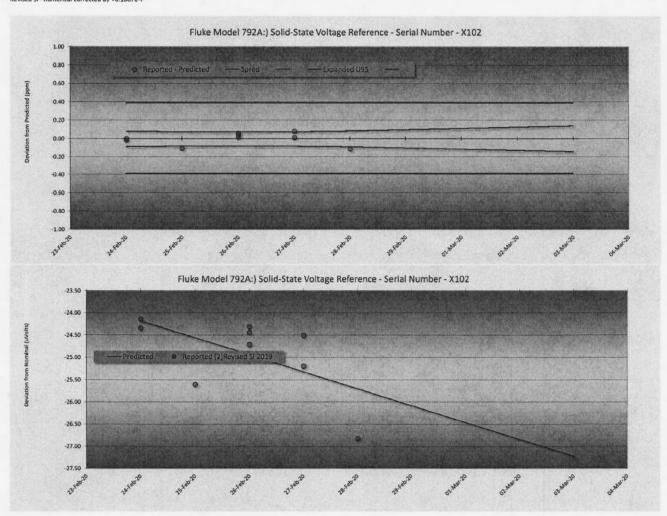
Date of Report (dd/mm/yy)	Elapsed Time (Days)	Compared to	Reported ^[2] Revised SI 2019 (uVolts)	Predicted (uVolts)	Reported - Predicted (ppm)	S _{peed} (ppm)	S _{pred} (ppm)	Expanded U95 (ppm)	Expanded U90 (ppm)
24-Feb-20	0	952383	-24.14	-24.18	0.00	0.09	-0.09	0.39	-0.39
24-Feb-20	0	952383	-24.34	-24.18	-0.02	0.09	-0.09	0.39	-0.39
25-Feb-20	1	952383	-25.60	-24.56	-0.10	0.08	-0.08	0.39	-0.39
26-Feb-20	2	952383	-24.31	-24.94	0.06	0.08	-0.08	0.39	-0.39
26-Feb-20	2	952383	-24.71	-24.94	0.02	0.08	-0.08	0.39	-0.39
26-Feb-20	2	952383	-24.44	-24.94	0.05	0.08	-0.08	0.39	-0.39
27-Feb-20	3	952383	-25.19	-25.32	0.01	0.08	-0.08	0.39	-0.39
27-Feb-20	3	952383	-24.50	-25.32	0.08	0.08	-0.08	0.39	-0.39
28-Feb-20	4	952383	-26.82	-25.70	-0.11	0.09	-0.09	0.39	-0.39
03-Mar-20	8			-27.22		0.14	-0.14	0.39	-0.39

 Mean
 9.9999751
 VDC

 Std Deviation
 0.09
 ppm

 I¹/₂Unc
 0.39
 ppm

^[2] Revised SI - numerical corrected by +0.1067e-7



 $^{^{\}left[1\right] }$ Time of test uncertainty - does include long term drift