



Certificate No.: 480-1190364
 Procedure No.: ATE-2 OPERATION AND MAINTENANCE

Control No.: 103428
 Page 1 of 3

UNIT UNDER TEST

Manufacturer: HEISE
 Model No.: PTE-2
 Serial No.: 21584
 Cust. Ref. No.: N/A
 Description: HANDHELD CALIBRATOR
 Date Rec'd: 4/21/2021
 Condition Rec'd: GOOD

SUBMITTED BY

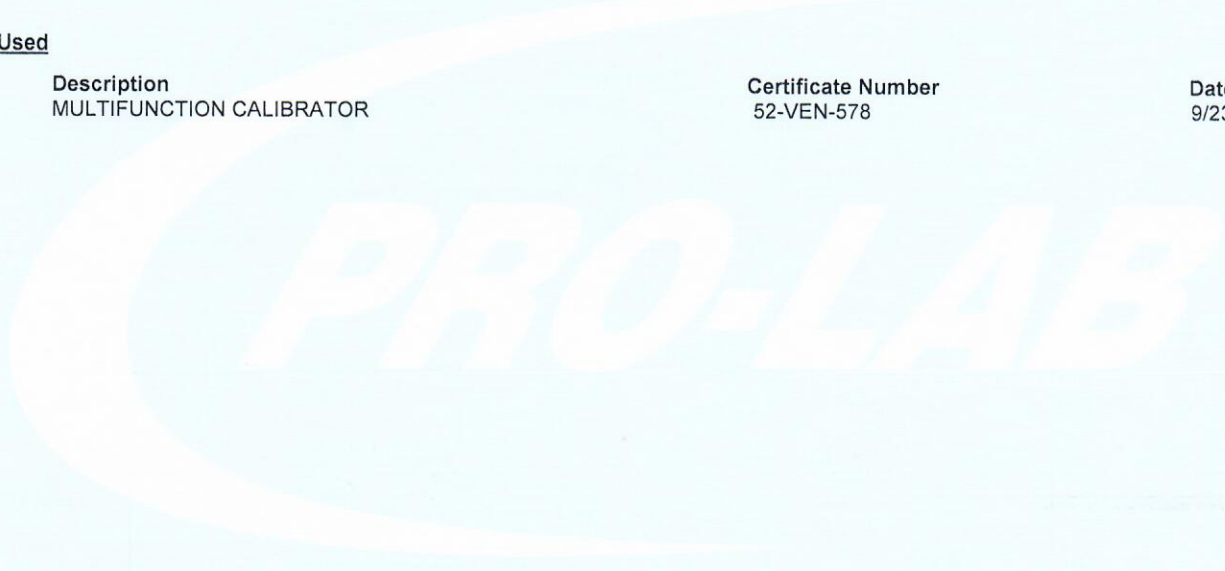
Customer: K&S TECHNICAL SERVICES, INC
 941 NEW LONDON ROAD
 NEWARK, DE 19711
 P.O. #: 10359
 Precal: IN SPEC Final: IN SPEC

CALIBRATION CERTIFICATE

All calibrations are performed by qualified personnel using instrumentation, procedures and methods which guarantee specifications claimed are reliable. When specified, all calibrations are performed in accordance with current ISO/IEC 17025, ANSI/NCSL Z-540-1, MIL-STD-45662A, and ENV/Pro-Lab Quality Manual - Rev 5. Standards used are traceable to The National Institute of Standards and Technology (NIST). Expanded uncertainties are calculated using methods described in the Guide to the Expression of Uncertainty of Measurement (GUM) utilizing a coverage factor of K=2 (95% confidence) and kept on file at Pro-Lab. At a minimum, standards are selected with an uncertainty of 25% or better, where possible. This certificate and/or data shall not be reproduced except in full, without the written permission of Pro-Lab Management.

Standards Used

Asset #	Description	Certificate Number	Date Due
0133	MULTIFUNCTION CALIBRATOR	52-VEN-578	9/23/2021



Temperature: 23.4 C
 Humidity: 30.0% RH
 Approved By: Jennifer Shelly
 Laboratory Supervisor
 E-Signed 28-Apr-2021 10:26 AM

Date Tested: 27-Apr-2021
 Date Due: 27-Apr-2022
 Calibrated By: Keith Murray, Sr.
 Sr Calibration Technician
 E-Signed 27-Apr-2021 3:22 PM

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CALIBRATION DATA

Note: Calibration results may drift from documented values prior to calibration due date attributable to various factors. Results obtained apply to the UUT only and are reflective of conditions at the time of this test. Measurement uncertainty is not taken into account when statements of compliance with specifications are made.

Volt Input Measure

Description	Standard	As Found	Final	Min.	Max.
vdc	1.000	1.000	1.000	0.992	1.008
vdc	3.000	3.000	3.000	2.992	3.008
vdc	5.000	5.000	5.000	4.992	5.008
vdc	7.000	7.000	7.000	6.992	7.008
vdc	9.000	9.000	9.000	8.992	9.008
vdc	15.000	15.001	15.000	14.970	15.030
vdc	20.000	20.001	20.001	19.970	20.030
vdc	25.000	25.001	25.000	24.970	25.030
vdc	30.000	30.000	30.000	29.970	30.030

Current Input Measure

Description	Standard	As Found	Final	Min.	Max.
ma	2.000	2.001	1.999	1.994	2.006
ma	4.000	4.001	3.999	3.994	4.006
ma	6.000	6.001	6.000	5.994	6.006
ma	8.000	8.001	8.000	7.994	8.006
ma	10.000	10.001	10.000	9.994	10.006
ma	12.000	12.001	12.000	11.994	12.006
ma	14.000	14.001	14.000	13.994	14.006
ma	16.000	16.001	16.000	15.994	16.006
ma	20.000	20.001	20.000	19.994	20.006

Sensor Module Input

Description	Standard	As Found	Final	Min.	Max.
vdc	0.00000	0.00000	0.00000	-0.00005	0.00005
vdc	0.10000	0.10001	0.10000	0.09995	0.10005
vdc	0.20000	0.20000	0.20000	0.19995	0.20005
vdc	0.30000	0.29999	0.30000	0.29995	0.30005
vdc	0.40000	0.39999	0.40000	0.39995	0.40005
vdc	0.50000	0.49999	0.50000	0.49995	0.50005



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Sensor Module Input

Description	Standard	As Found	Final	Min.	Max.
vdc	0.60000	0.59998	0.60000	0.59995	0.60005
vdc	0.70000	0.69997	0.70000	0.69995	0.70005
vdc	0.80000	0.79996	0.80000	0.79995	0.80005
vdc	0.90000	0.89996	0.90000	0.89995	0.90005
vdc	1.00000	0.99996	1.00001	0.99995	1.00005