



MICRO PRECISION CALIBRATION PTE LTD
BLOCK 5008 ANG MO KIO AVENUE 5 #07-02/03
TECHPLACE II SINGAPORE 569874
65 67484384



Certificate of Calibration

Date: August 07, 2020

Cert No. 551220083759544

Customer:

WATERS PACIFIC PTE LTD
1 SCIENCE PARK ROAD, #02-08 THE CAPRICORN
SINGAPORE SCIENCE PARK II
SINGAPORE 117528

Work Order #: SG-11014874

MPC Control #: 66386
Asset ID: 0280
Gage Type: DIGITAL AC/DC CLAMP METER
Manufacturer: KYORITSU
Model Number: KEW SNAP 2033
Size: N/A
Temp/RH: 22°C / 52 %
Location: Calibration performed at MPC facility

Serial Number: 66386
Department: N/A
Performed By: YIOK TEE CHUA
Received Condition: IN TOLERANCE
Returned Condition: IN TOLERANCE
Cal. Date: August 07, 2020
Cal. Interval: 12 MONTHS
Cal. Due Date: August 07, 2021

Calibration Notes:

Performance Tests Passed. See attached data (2 Pages).
Calibration performed for Flextronics Manufacturing (Singapore) Pte Ltd.

Standards Used to Calibrate Equipment

I.D.	Description	Model	Serial	Manufacturer	Cal. Due Date	Traceability #
FA3467	CALIBRATOR	5720A/ WIDEBAND OPTION	4665018	FLUKE	Apr 1, 2021	551220083583655
CE4115	CURRENT COIL	5500A/COIL	20080725	FLUKE	Feb 14, 2021	1D9370
CA8002	TRANSCONDUCTANCE AMPLIFIER	5220A	6815004	FLUKE	May 28, 2021	551220083648458

Procedures Used in this Event

Procedure Name	Description
KYORITSU 2033	Digital AC/DC Clamp Meter, Kyoritsu 2033, Oct-02-2015

Calibrating Technician:

YIOK TEE CHUA

QC Approval:

JUN CALIMAG

STATEMENTS OF PASS OR FAIL CONFORMANCE: The uncertainty of measurement has been taken into account when determining compliance with specification. All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCCL Z540.3-2006 and in case without guard banded the probability of false-accept depending on test uncertainty ratio.

THE CALIBRATION REPORT STATUS:

PASS- Term used when compliance statement is given, and the measurement result is PASS.

PASS²- Term used when compliance statement is given, and the measurement result is conditional passed or PASS².

FAIL- Term used when compliance statement is given, and the measurement result is FAIL.

FAIL²- Term used when compliance statement is given, and the measurement result is conditional failed or FAIL².

REPORT OF VALUE - Term used when reported measurement is not requiring compliance statement in report.

ADJUSTED- When adjustments are made to an instrument which changes the value of measurement from what was measured as found to new value as left.

LIMITED - When an instrument fails calibration but is still functional in a limited manner.

The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated. This calibration report complies with ISO/IEC 17025:2017 and ANSI/NCCL Z540.3. Calibration cycles and resulting due dates were submitted approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. All standards are traceable to SI through the National Institute of Standards and Technology (NIST) and/or recognized national or international standards laboratories. Services rendered include proper manufacturer's service instruction and are warranted for no less than thirty (30) days. The information on this report pertains only to the instrument identified this may not be reproduced in part or in a whole without the prior written approval of the issuing MP Calibration Laboratory.

REVIEWED & ACCEPTED

SIGN: CHANG MEI LAN

DATE: 21 AUG 2020

REMARKS: EQID 0280

f. Mohammad Shamsul 21/08/20