



CALTEK PTE LTD

222 Tagore Lane, #04-07 TG Building, Singapore 787603
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CALIBRATION CERTIFICATE

CERTIFICATE NUMBER : CTE 1333-07 **JOB NUMBER** : CTJ 1403-07
DATE RECEIVED : 9-Feb-07 **ISSUE DATE** : 13-Feb-07

| | |
|-------------------------------------|--|
| Instrument : LOOP CALIBRATOR | Ambient Temperature : $21 \pm 2^\circ \text{C}$ |
| Manufacturer : VICTOR | Relative Humidity : $55 \pm 10\% \text{ R. H.}$ |
| Model No. : 05 | Date Calibrated : 13-Feb-07 |
| Serial No. : 99875185 | Recommended Due Date : 13-Feb-08 |
| Customer : Tijit Pte Ltd | Range : --- |
| Blk 124 Jurong East St 13 | (Tag No.) : --- |
| #02-05, Ivory Heights | Page : 1 of 2 |
| Singapore 600124 | Status : As Found |

The described instrument has been calibrated at **Caltex** Laboratory under the ambient conditions stated above.

Caltex organisation and practices are in compliance with **ISO/IEC 17025**. The Quality System is in accordance with the **Quality Standard ISO 9001:2000**.

The reference measurement standards used are traceable to Standards, Productivity and Innovation Board (**SPRING**) and National Physical Laboratory (**NPL**), UK and National Institute of Standards and Technology (**NIST**), USA or other recognised National or International Standards Laboratories.

METHOD OF CALIBRATION


1. The calibration method was carried out by comparison against the Reference Standards Traceable to National or International Standards

REFERENCE STANDARD(S) USED FOR CALIBRATION

| <u>INSTRUMENT</u> | <u>S/N</u> |
|---------------------------------|------------|
| 1. Precision Digital Multimeter | 3114A16163 |
| 2. Multifunction Calibrator | 8895020 |

RESULTS OF CALIBRATION

1. The results of calibration are given on the attached calibration data sheet(s).
2. The uncertainty of measurement associated with the calibration is estimated at a confidence level of approximately 95% with a coverage factor of $k = 2$.
3. The user should determine the suitability of the instrument for its intended use.


Min Zaw
Calibration Officer


Zin M.M.
Approved by



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| Function Test | Instrument Reading | Low Limit | High Limit | Remark / Status |
|----------------------------|--------------------|-----------|------------|-----------------|
| DC CURRENT (OUTPUT) | | | | |
| 4.0029 mA | 4.000 | 3.9940 | 4.0060 | Pass |
| 8.0057 mA | 8.000 | 7.9920 | 8.0080 | Pass |
| 12.0080 mA | 12.000 | 11.9900 | 12.0100 | Pass |
| 16.0110 mA | 16.000 | 15.9880 | 16.0120 | Pass |
| 20.0130 mA | 20.000 | 19.9860 | 20.0140 | Pass |
| DC CURRENT (INPUT) | | | | |
| 4.0000 mA | 4.000 | 3.9952 | 4.0048 | Pass |
| 8.0000 mA | 8.000 | 7.9944 | 8.0056 | Pass |
| 12.0000 mA | 12.000 | 11.9936 | 12.0064 | Pass |
| 16.0000 mA | 16.000 | 15.9928 | 16.0072 | Pass |
| 20.0000 mA | 20.000 | 19.9920 | 20.0080 | Pass |
| DC VOLTAGE (INPUT) | | | | |
| 0.0000 V | 0.000 | -0.0020 | 0.0020 | Pass |
| 10.0000 V | 9.999 | 9.9960 | 10.0040 | Pass |
| 14.0000 V | 13.998 | 13.9952 | 14.0048 | Pass |
| 20.0000 V | 19.998 | 19.9940 | 20.0060 | Pass |
| 28.0000 V | 27.997 | 27.9924 | 28.0076 | Pass |

| | FUNCTION TEST | ESTIMATED UNCERTAINTY |
|-------------|---------------|-----------------------|
| INPUT MODE | DC V | ± 10.5 ppm of reading |
| | DC A | ± 0.01% of reading |
| OUTPUT MODE | DC A | ± 0.01% of reading |