

CERTIFICATE OF CALIBRATION

ISSUED BY THE STANDARDS LABORATORY

Date of Issue: 30th [REDACTED] Certificate No: [REDACTED]



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[REDACTED]
Approved Signatory

Client: Metrix Electronics Ltd
Unit A
Bramley
Berkshire
RG26 5BZ

Order No: POR1 [REDACTED] **Date Received:** 2 [REDACTED] 7
RCL Job No: 794 [REDACTED] **Date Calibrated:** 28 August 2017

Previous UKAS Certificate No: None

Instrument: Handheld Generator

Manufacturer and Model No: BK Precision 3003

Instrument Serial No: 10 [REDACTED]

Client Instrument Identification No: None

Procedure:

The Instrument was calibrated in ambient conditions of $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and a relative humidity of $50\% \pm 10\%$.

The Instrument was calibrated using a multifunction calibrator; the applied values were read from the display of the Instrument under test and recorded on the following pages.

The instrument was placed in the laboratory before any measurements were made in order that a stable operating condition had been reached.

The Instrument was operated in accordance with the manufacturers handbook.

No adjustments were made affecting calibration.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

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Equipment Used: RS [REDACTED] 272

Square Wave Frequency Accuracy:

Range	Set	Measured	Specification
DC to 9.999 999 MHz	10.000 0 mHz	9.980 94 mHz	No specification set by manufacture
	1.000 0 Hz	0.990 218 Hz	
	10.000 0 Hz	9.987 912 Hz	
	100.000 0 Hz	99.994 976 Hz	
	1.000 0 kHz	1.000 014 kHz	± 0.02 %
	10.000 0 kHz	10.000 161 kHz	
	100.000 0 kHz	100.001 64 kHz	
	1.000 0 MHz	1.000 016 MHz	
9.999 9 MHz	10.000 164 MHz		

Range	Set	Measured	Specification
5 Vpp	5.000 Vpp	5.12 V	No specification set by manufacture

Sine Wave Frequency Accuracy:

Range	Set	Measured	Specification
DC to 9.999 999 MHz	10.000 0 mHz	9.978 85 mHz	No specification set by manufacture
	1.000 0 Hz	0.989 618 Hz	
	10.000 0 Hz	9.988 177 Hz	
	100.000 0 Hz	99.991 26 Hz	
	1.000 0 kHz	1.000 019 kHz	± 0.02 %
	10.000 0 kHz	10.000 166 kHz	
	100.000 0 kHz	100.001 69 kHz	
	1.000 0 MHz	1.000 016 MHz	
9.999 9 MHz	10.000 168 MHz		

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Sine Wave Amplitude Accuracy:

Range	Set	Measured	Specification
0-4.5 Vpp	1.000 V	1.01 V	No specification set by manufacture
	2.000 V	2.02 V	
	4.000 V	4.00 V	
	4.500 V	4.52 V	

The estimated limits of uncertainty for the measurements are as follows:

AC Voltage \pm 0.04 %

Frequency \pm 1 ppm

In addition to the above there is a further uncertainty of ± 1 least significant digit which represents the resolution of the instrument under test.

The Instrument was operated in accordance with the manufacturers handbook, P/N: 480_826_9_001

Lab Temperature: 22.9 °C

Lab Humidity: 57 %

Lab Procedure: [REDACTED]

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

The uncertainty evaluation has been carried out in accordance with UKAS requirements

-----END-----

Measurements made by: [Signature]

REPAIR & CALIBRATION REPORT

Client: Metrix Electronics Ltd **Account No:** [REDACTED]
Instrument: BK Precision 3003 Handheld Generator
Client ID: NONE **Purchase Order:** PO# [REDACTED]
Serial No: [REDACTED] **Calibration:** UKAS Calibration
Date Received: 23/08/17 **Job No:** 79 [REDACTED]
Accessories: BOX AND POWER CABLE

CALIBRATION STATUS OF INSTRUMENT RECEIVED:

- Within Specification (A) Repair Required (R)
 Out of Specification (B) Under Warranty (W)

FAULTS/COMMENTS:

WORK CARRIED OUT:

- Calibrated
 Repaired
 Batteries Replaced
 Fuse Replaced
 Cleaned
 Returned Unrepaired

Additional Comments:

Reference Standards Employed:

[REDACTED]

Instrument Safety Tested:

Yes N/A

Accessories Returned: Yes N/A

Date of Calibration:

[REDACTED]

Inspected By:

**INSP
6**

INSTRUMENT SUB-CONTRACTED:

Instrument Sub Contracted:

Documents Correct:

Date Received from Sub-Contract:

Inspected By: