

# CERTIFICATE OF CALIBRATION

Issued By **Transmille Ltd**  
Date of Issue **05 July 2011**

Certificate Number  
STD0017

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**Transmille Ltd**  
**Unit 4 Select Business Centre**  
**Lodge Road**  
**Staplehurst**  
**Kent TN12 0QW**

*Approved Signatory*

I.J. Williams  G.H. Cooper  E.F. Cooper  C.D. Jones  G. Shapland

**Customer :** Arrow Calibrations  
1 Calibration House  
Anytown  
The Drive  
AnyCounty. AB12 3CD.

**Instrument -** System ID : ID030  
Description : Digital Multimeter  
Manufacturer : Fluke  
Model Number : 23 MKII  
Serial Number : 123456789  
Procedure Version 248

## Environmental Conditions

Temperature : 20°C ± 1°C  
Relative Humidity : 50%RH ± 10%RH  
Mains Voltage : 240V ± 10V  
Mains Frequency 50Hz ± 1Hz

## Comments

Calibrated to manufacturers specification at the measured points  
Specification Reference: PN896191 March 1991, Rev 2 06-97

## Traceability Information

<i>Instrument Description</i>	<i>Serial Number</i>	<i>Certificate Number</i>	<i>Cal. Date</i>	<i>Cal. Period</i>
3041 Precision Multi-Product Calibrator	123456	123456	19/05/2011	52

Calibrated By : **G. Shapland**

Date of Calibration : **05 July 2011**

This certificate provides traceability of measurement to recognised National standards, and to the units of measurements realised at the National Physical Laboratory or other recognised National standards laboratories.

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This certificate complies with the requirements of B.S. 5781, Part 1992 (ISO 10012-1 1992).

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Test Title	Tolerance	Applied Value	Reading	Pass / Fail
<b>General Operation Tests</b>				
Continuity Bleeper	---	---		PASS
Diode Test	---	---		PASS
<b>DC Voltage</b>				
320mV D.C. Range	970uV	290.0mV	290.0mV	PASS
3.2V D.C. Range	9.7mV	2.900V	2.901V	PASS
32V D.C. Range	97mV	29.00V	29.02V	PASS
320V D.C. Range	970mV	290.0V	290.2V	PASS
1000V D.C. Range	5V	1000V	1001V	PASS
<b>Linearity</b>				
3.2V Linearity	7mV	-2.000V	-2.001V	PASS
3.2V Linearity	4mV	-1.000V	-1.000V	PASS
3.2V Linearity	4mV	1.000V	1.000V	PASS
3.2V Linearity	7mV	2.000V	2.001V	PASS
<b>AC Voltage</b>				
3.2V A.C. @ 60Hz	60mV	2.900V	2.905V	PASS
32V A.C. @ 60Hz	600mV	29.00V	29.07V	PASS
32V A.C. @ 500Hz	600mV	29.00V	29.09V	PASS
32V A.C. @ 1kHz	600mV	29.00V	29.06V	PASS
320V A.C. @ 60Hz	6V	290.0V	290.0V	PASS
750V A.C. @ 60Hz	17V	750V	751V	PASS
<b>DC Current</b>				
32mA D.C. Range	455uA	29.00mA	29.01mA	PASS
320mA D.C. Range	4.6mA	290.0mA	290.5mA	PASS
10A D.C. Range	170mA	10.00A	9.98A	PASS
<b>AC Current</b>				
32mA A.C. @ 60Hz	745uA	29.00mA	29.07mA	PASS
320mA A.C. @ 60Hz	7.5mA	290.0mA	291.0mA	PASS
10A A.C. @ 60Hz	270mA	10.00A	9.99A	PASS
<b>Resistance</b>				
320R Range	700mR	100.2R	100.1R	PASS
3.2kR Range	6R	1.000kR	1.000kR	PASS
32kR Range	60R	10.00kR	10.00kR	PASS
320kR Range	600R	100.0kR	100.1kR	PASS
3.2MR Range	6kR	1.000MR	1.001MR	PASS

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Test Title	Tolerance	Applied Value	Reading	Pass / Fail
32MR Range	210kR	10.00MR	10.02MR	PASS

End of results

*END OF TEST DATA*

## Uncertainties

D.C. Voltage : 0 to 1000V: 0.002% ± 1 digit

A.C. Voltage : 0 to 1000V: 0.01% ± 1 digit

D.C. Current : 0 to 10A: 0.008% ± 1 digit

A.C. Current : 0 to 10A: 0.02% ± 2 digit

Resistance : 0 to 10MOhms 0.005% ± 1 digit: 10Mohms to 1Gohm 0.4% ± 1 digit