

# CERTIFICATE OF CALIBRATION



Calibration Date :  
Certificate Number :  
12345678  
Issued by : Meet (China) Ltd.  
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## MEET (CHINA) LTD.

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26 Hung To Road, Kwun Tong,  
Kowloon, Hong Kong

Approved signatory

R.CHOU     HP CHEN     W PEN     QC PAN

Customer :

Date Received / Purchased :

Instrument :    System ID :    5453-18    Job Number :  
Description :    MFT Factory Adjustment Box  
Manufacturer :    MEET Electronics Ltd.  
Model Number :    MP-MFT30  
Serial Number :    123456  
Procedure Version 2.0.0.0 R11670

Environmental Conditions :

Temperature :    25°C+/-2°C    Mains Voltage :    230V +/- 10V  
Relative Humidity 55%, +/-20%    Mains Frequency :    50Hz +/-1 Hz

Comments :

Device was allowed to stabilise prior to the calibration

Traceability information :

Instrument description	Serial Number	Certificate Number
3200B Electrical Test Equipment Calibrator, Transmille	987645	

This certificate provides traceability of measurement to recognised National Standards, and to the units of measurement realised at the National Physical Laboratory or other recognised National Standards laboratories  
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This certificate complies with the requirements of BS EN ISO 10012:2003

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**Condition : Pass**

## 1. Insulation Accuracy

Range	Test Box	Reading	Low Limit	High Limit
250V	180M		173.8 MΩ	186.2 MΩ
500V	400M		385.9 MΩ	414.1 MΩ
1000V	900M		866.8 MΩ	933.2 MΩ
250V	250K		0.243 MΩ	0.257 MΩ
500V	500K		0.488 MΩ	0.512 MΩ
1000V	1M		0.978 MΩ	1.022 MΩ
250V	10M		9.769 MΩ	10.23 MΩ
500V	10M		9.773 MΩ	10.23 MΩ
1000V	10M		9.774 MΩ	10.23 MΩ

## 2. Insulation Output Voltage

Range	Test Box	Reading	Low Limit	High Limit
250V	Discouncted		252.5 V	272.5 V
500V	Discouncted		505 V	548 V
1000V	Discouncted		1010 V	1090 V
1000V	2K		2.4 V	3.6 V
250V	250K		252.5 V	272.5 V
500V	500K		505 V	545 V
1000V	1M Battery 5.6V		1010 V	1090 V

## 3. Continuity Accuracy

Function	Test Box	Reading	Low Limit	High Limit
NULL	S/C		0.00 Ω	0.30 Ω
TEST	1 Ω		0.97 Ω	1.04 Ω
TEST	10 Ω		9.78 Ω	10.22 Ω
TEST	100 Ω		97.76 Ω	102.2 Ω
TEST	1K		977.6 Ω	1022 Ω
TEST	19K		18.59 K	19.41 K

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## 4. Continuity Output Voltage

Test Box	Reading	Low Limit	High Limit
Disconnected		8.8V	9.1V
1 $\Omega$ Battery 5.6V		0.203V	0.262V

## 5. Loop High I

Baseline Resistance:	0.58	(=BLR)
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Test Box Switch	Added $R_{LE}$	Reading	Low Limit	High Limit
5	0 $\Omega$		BLR - 0.03 $\Omega$	BLR + 0.03 $\Omega$
7	2 $\Omega$		BLR + 1.93 $\Omega$	BLR + 2.07 $\Omega$
8	18 $\Omega$		BLR + 17.59 $\Omega$	BLR + 18.41 $\Omega$
9	500 $\Omega$		BLR + 489.3 $\Omega$	BLR + 510.70 $\Omega$

## 6. Loop No Trip

Test Box Switch	Added $R_{LE}$	Reading	Low Limit	High Limit
5	0 $\Omega$		BLR - 0.05 $\Omega$	BLR + 0.05 $\Omega$
7	2 $\Omega$		BLR + 1.88 $\Omega$	BLR + 2.12 $\Omega$
8	18 $\Omega$		BLR + 17.32 $\Omega$	BLR + 18.68 $\Omega$
9	500 $\Omega$		BLR + 482.1 $\Omega$	BLR + 517.9 $\Omega$
10	2000 $\Omega$		Flashing Red LED + Beeper	

## 7. Loop Cross-Check

(H-N)	Low Limit	High Limit
0.2	- 0.05 $\Omega$	+ 0.05 $\Omega$

## 8. Touchpad

Test Box Switch	Applied Voltage	Tick	MP-MFT30 Alert
4	60V	√	No
4	120V	√	Red LED + Beeper

## 9.AC Volts Measurement

Alert = Flashing Red LED + Beeper

Test Box Switch	Applied Voltage	Range	Reading	Low Limit	High Limit	Alert?
2	0V	SOCKET + VLN		0 V	1 V	N
2	0V	SOCKET + VLE		0 V	1 V	N
3	0V	SOCKET + VNE		0 V	1 V	N
2	25V	CONTINUITY		24 V	26 V	
2	270V	SOCKET + VLN		267 V	273V	
2	270V	SOCKET + VLE		267 V	273 V	
3	270V	SOCKET + VNE		267 V	273 V	

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## 10.RCD Leakage Current

Test Box Switch = 8

Type	Range	Reading	Low Limit	High Limit
30mA x $\frac{1}{2}$ Type AC	500mV ac		245.7 mV	267.3 mV
100mA x1 Type AC	5V ac		1.818 V	1.962 V
500mA x1 Type AC	50V ac		9.09 V	9.81 V
100mA x $\frac{1}{2}$ Type A	5V ac+dc		0.578 V	0.632 V
30mA x $\frac{1}{2}$ Type B	500mV dc		$\pm$ 245.7 mV	$\pm$ 267.3 mV
100mA x $\frac{1}{2}$ Type B	5V dc		$\pm$ 0.819 V	$\pm$ 0.891 V
300mA x1 Type B	50V dc		$\pm$ 10.81 V	$\pm$ 11.76 V

## 11.RCD Fault Voltage

Type	Test Box Switch	Display	Tick
100mA x1 Type AC	9	Efl + Red LED + Beeper	$\checkmark$

## 12.RCD Trip Time

Type	Reading	Low Limit	High Limit
30mA x1 Type AC		36.5 ms	39.5 ms

## 13.Accessible Current

Test Box Switch	Reading	High Limit
10		368 mV