

Parameter/Range	Frequency	CMC ^{2,4} (±)	Comments
AC Current – Generate			
10µA 100µA 1 mA 10 mA 100 mA 1 A 5A 10A	60 Hz	5.7 mA/A 0.18 mA/A 0.11 mA/A 0.11 mA/A 0.12 mA/A 0.41 mA/A 0.32 mA/A 0.31 mA/A	Fluke 5700A/5725A
(10 to 100) µA >0.1mA to 0.2A (0.2 to 10) A		5.7 mA/A 0.2 mA/A 0.46 mA/A	
10µA 100 µA 1 mA 10 mA 100 mA 1 A 5A 10A	1 kHz	1.2 mA/A 0.18 mA/A 0.11 mA/A 0.11 mA/A 0.12 mA/A 0.41 mA/A 0.33 mA/A 0.31 mA/A	Fluke 5700A/5725A
(10 to 100) µA >0.1mA to 0.2A (0.2 to 10) A		1.2 mA/A 0.2 mA/A 0.46 mA/A	

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Resistance – Generate	0.1 mΩ 0.001 Ω 0.01 Ω 0.1 Ω	5.6 mΩ/Ω 0.76 mΩ/Ω 0.13 mΩ/Ω 25 µΩ/Ω	Stand resistance ZIP/P321 0.1Ω ZIP/P310 0.01Ω ZIP/P310 0.001Ω Coropico/RS3.01 0.1mΩ
	1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ	59 µΩ/Ω 57 µΩ/Ω 41 µΩ/Ω 32 µΩ/Ω 15 µΩ/Ω 17 µΩ/Ω 26 µΩ/Ω 48 µΩ/Ω	Fluke 5700A

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Resistance – Generate (cont)	(1 to 20) Ω (20 to 100) Ω 100 Ω to 1 kΩ (1 to 10) kΩ (10 to 100) kΩ 100 kΩ to 1 MΩ (1 to 10) MΩ (10 to 100) MΩ	0.53 mΩ/Ω 0.21 mΩ/Ω 0.13 mΩ/Ω 0.24 mΩ/Ω 0.13 mΩ/Ω 0.14 mΩ/Ω 0.25 mΩ/Ω 1.5 mΩ/Ω	TIME ELECTRONICS 5025C-S2
Resistance – Measure	1 Ω 10 Ω 100 Ω 1kΩ 10kΩ 100kΩ 1 MΩ 10 MΩ	21 μΩ/Ω 16 μΩ/Ω 11 μΩ/Ω 11 μΩ/Ω 7.4 μΩ/Ω 8.3 μΩ/Ω 16 μΩ/Ω 31 μΩ/Ω	Fluke 8508A

Parameter/Range	Range	CMC ^{2,4} (±)	Comments
DC Voltage – Generate	10 mV 100 mV 1 V 10 V 100 V 1000 V (10 to 100) mV > 100 mV to 1000 V	0.11 mV/V 11 µV/V 9.4 µV/V 6 µV/V 11 µV/V 14 µV/V 0.11 mV/V 14 µV/V	Fluke 5700A/5725A
DC Current – Measure	10 µA 100 µA 1 mA 10mA 100 mA 1 A 5 A 10 A 19 A (10 to 200) µA (0.2 to 2) mA (2 to 20) mA (20 to 200) mA (0.2 to 2) A (2 to 19) A	0.11 mA/A 26 µA/A 26 µA/A 26 µA/A 35 µA/A 0.12 mA/A 0.27 mA/A 0.16 mA/A 0.24 mA/A 0.13 mA/A 56 µA/A 62 µA/A 0.11 mA/A 0.17 mA/A 0.35 mA/A	Fluke 8508A
DC Current – Generate	1 µA 10µA 100 µA 1 mA 10 mA 100 mA 1 A 5 A 10 A (10 to 200) µA (0.2 to 2) mA (2 to 20) mA (20 to 200) mA (0.2 to 2) A (2 to 10) A	9.4 µA/A 0.99 mA/A 0.16 mA/A 72 µA/A 72 µA/A 83µA/A 0.13 mA/A 0.7 mA/A 0.54 mA/A 0.18 mA/A 98 µA/A 0.11 mA/A 0.14 mA/A 0.21 mA/A 0.7 mA/A	Fluke 5700/5725A

Parameter/Range	Frequency	CMC ^{2, 4} (±)	Comments
AC Voltage – Measure			
10 mV 100 mV 1 V 10 V 100 V 1000 V	60 Hz	0.7 mV/V 0.13 mV/V 97 µV/V 97 µV/V 0.11 mV/V 0.13 mV/V	Fluke 8508A
(10 to 100) mV (100 to 200) mV >200 mv to 1000V		0.7 mV /V 0.17 mV/V 0.22 mV/V	
10 mV 100 mV 1 V 10 V 100 V 1000 V	1 kHz	0.54 mV/V 0.13 mV/V 74 µV/V 75 µV/V 86 µV/V 0.13 mV/V	Fluke 8508A
(10 to 100) mV (100 to 200) mV >200 mv to 1000V		0.54 mV/V 0.13 mV/V 0.22 mV/V	
AC Voltage – Generate			
10 mV 100 mV 1 V 10 V 100 V 1000 V	60 Hz	1.2 mV/V 0.23 mV/V 98 µV/V 99 µV/V 0.12 mV/V 0.13 mV/V	Fluke 5700A
(10 to 100) mV (100 to 200) mV >200 mV to 1000V		1.2 mV /V 0.25 mV/V 0.13 mV/V	
10 mV 100 mV 1 V 10 V 100 V 1000 V	1 kHz	1.2 mV/V 0.22 mV/V 98 µV/V 99 µV/V 0.12 mV/V 0.13 mV/V	Fluke 5700A
(10 to 100) mV (100 to 200) mV (200 to 1000) V		1.2 mV/V 0.25 mV/V 0.13 mV/V	

Parameter/Range	Frequency	CMC ^{2,4} (±)	Comments
AC Current – Measure			
10 µA 100µA 1 mA 10 mA 100 mA 1A 5A 10A 19A	60 Hz	4.4 mA/A 0.27 mA/A 0.27 mA/A 0.27 mA/A 0.27 mA/A 0.47 mA/A 0.71 mA/A 0.60 mA/A 0.55 mA/A	Fluke 8508A
(10 to 100) µA >0.1mA to 0.2A (0.2 to 19) A	1 kHz	4.4 mA/A 0.47 mA/A 0.94 mA/A	Fluke 8508A
10µA 100µA 1 mA 10 mA 100 mA 1A 5A 10A 19A		1.5 mA/A 0.27 mA/A 0.27 mA/A 0.27 mA/A 0.27 mA/A 0.48 mA/A 0.72 mA/A 0.60 mA/A 0.55 mA/A	
(10 to 100) µA >0.1mA to 0.2A (0.2 to 19) A		1.5 mA/A 0.44 mA/A 0.94 mA/A	