

DC Voltage: 10nV to 1050V in 5 Ranges.				Stability					
Range	Full Scale	Resolution	Input Impedance	24 Hour		90 Day		1 Year	
				ppm	+ Floor	ppm	+ Floor	ppm	+ Floor
100mV	105,000,00	10nV	> 50Gohms	1.5	+ 0.2uV	3	+ 0.2uV	5	+ 0.2uV
1V	1.050,000,00	10nV	> 50Gohms	1.2	+ 0.5uV	2.4	+ 0.5uV	4	+ 0.5uV
10V	10.500,000,0	100nV	> 50Gohms	1.2	+ 5uV	2.4	+ 5uV	4	+ 5uV
100V	105000000	1uV	1MOhm, 1%	1.8	+ 50uV	3.6	+ 50uV	6	+ 50uV
1000V	1050,000,00	10uV	1MOhm, 1%	1.8	+ 0.8mV	3.6	+ 0.8mV	6	+ 0.8mV

Temperature coefficient outside 20 to 23°C < 0.8ppm/°C

Input Protection : 1100Volts

Reading Rates : 4.5 digits = 100ms • 5.5 digits = 500ms • 6.5 digits = 1.3s • 7.5 digits = 3s • 8.5 digits = 8s

DC Current 0.1pA to 30 Amps in 11 Ranges				Stability					
Range	Full Scale	Resolution	Input Impedance	24 Hour		90 Day		1 Year	
				ppm	+ Floor	ppm	+ Floor	ppm	+ Floor
10nA	10.500,0	0.1pA	Virtual Ground	28.5	+ 0.8pA	57	+ 0.8pA	95	+ 0.8pA
100nA	105.000	1pA	Virtual Ground	10.5	+ 3.4pA	21	+ 3.4pA	35	+ 3.4pA
1uA	1.050,000	1pA	Virtual Ground	7.5	+ 17pA	15	+ 17pA	25	+ 17pA
10uA	10,500,00	10pA	Virtual Ground	6	+ 90pA	12	+ 90pA	20	+ 90pA
100uA	105,000,00	10pA	1Ohms	3	+ 0.6nA	6	+ 0.6nA	10	+ 0.6nA
1mA	1.050,000,0	100pA	1Ohms	3.3	+ 5nA	6.6	+ 5nA	11	+ 5nA
10mA	10.500,000	1nA	1Ohms	3.6	+ 60nA	7.2	+ 60nA	12	+ 60nA
100mA	105,000,00	10nA	1Ohms	9	+ 1.1uA	18	+ 1.1uA	30	+ 1.1uA
1A	1.050,000,0	100nA	0.2Ohms	45	+ 24uA	90	+ 24uA	150	+ 24uA
10A	10.500,000	1uA	10mOhms	108	+ 0.6mA	216	+ 0.6mA	360	+ 0.6mA
30A	30.500,00	10uA	10mOhms	147	+ 9mA	294	+ 9mA	490	+ 9mA

Preliminary Specifications

Due to continuous development specifications may be subject to change.

8081 Extended Specifications : V1.10

Resistance : 0.1uohm to 100Gohms in 12 Ranges				Stability					
Range	Full Scale	Resolution	Current/Voltage	24 Hour		90 Day		1 Year	
				ppm	+ Floor	ppm	+ Floor	ppm	+ Floor
1 Ohm	1.050,000,0	0.1uOhm	100mA	4.5	7uR	9	7uR	15	+ 7uR
10 Ohm	10.500,000	1uOhm	10mA	3.6	60uR	7.2	60uR	12	+ 60uR
100 Ohm	105.000,000	1uOhm	10mA	2.7	120uR	5.4	120uR	9	+ 120uR
1 kohm	1.050,000,00	10uOhm	10mA	2.4	0.7mR	4.8	0.7mR	8	+ 0.7mR
10 kohm	10.500,000,0	100uOhm	1mA	3	5mR	6	5mR	10	+ 5mR
100 kohm	105.000,000	1mOhm	100uA	3	0.15	6	0.15	10	+ 0.15
1 Mohm	1.050,000,00	10mOhm	10uA	3.6	2	7.2	2	12	+ 2
10 Mohm	10.500,000	1Ohm	1uA	4.5	20	9	20	15	+ 20
100 Mohm	105.000,0	100Ohm	100V	24	0.3k	48	0.3k	80	+ 0.3k
1 Gohm	1.050,000	1kOhm	200V	84	6k	168	6k	280	+ 6k
10 Gohm	10.500,00	10kOhm	200V	234	120k	468	120k	780	+ 120k
100 Gohm	105.000,0	100kOhm	200V	720	1.9M	1440	1.9M	2400	+ 1.9M

Preliminary Specifications

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8081 Extended Specifications : V1.10

AC Voltage 0.1uV to 1000 Volts in 5 Ranges				Stability					
Range	Full Scale	Resolution	Input Impedance	24 Hour		90 Day		1 Year	
				%Read	+ Floor	%Read	+ Floor	%Read	+ Floor
100mV	105,000,0	0.1uV	1MOhm / 130pF						
10Hz to 40Hz				0.15	+ 25uV	0.3	+ 25uV	0.5	+ 25uV
40Hz to 400Hz				0.024	+ 23uV	0.048	+ 23uV	0.08	+ 23uV
400Hz to 10KHz				0.009	+ 18uV	0.018	+ 18uV	0.03	+ 18uV
10kHz to 100kHz				0.18	+ 90uV	0.36	+ 90uV	0.6	+ 90uV
1V	1.050,000	1uV	1MOhm / 130pF						
10Hz to 40Hz				0.12	+ 150uV	0.24	+ 150uV	0.4	+ 150uV
40Hz to 400Hz				0.021	+ 130uV	0.042	+ 130uV	0.07	+ 130uV
400Hz to 10kHz				0.006	+ 100uV	0.012	+ 100uV	0.02	+ 100uV
10kHz to 100kHz				0.18	+ 480uV	0.36	+ 480uV	0.6	+ 480uV
100kHz to 1MHz				tba	+ tba	tba	+ tba	tba	+ tba
10V	10.500,00	10uV	1MOhm / 130pF						
10Hz to 40Hz				0.12	+ 1.5mV	0.24	+ 1.5mV	0.4	+ 1.5mV
40Hz to 400Hz				0.021	+ 1.3mV	0.042	+ 1.3mV	0.07	+ 1.3mV
400Hz to 10kHz				0.006	+ 1mV	0.012	+ 1mV	0.02	+ 1mV
10kHz to 100kHz				0.18	+ 4.9mV	0.36	+ 4.9mV	0.6	+ 4.9mV
100kHz to 1MHz				tba	+ tba	tba	+ tba	tba	+ tba
100V	105.000,0	100uV	1MOhm / 130pF						
10Hz to 40Hz									
40Hz to 1kHz				0.12	+ 22mV	0.24	+ 22mV	0.4	+ 22mV
1kHz to 50kHz				0.015	+ 12mV	0.03	+ 12mV	0.05	+ 12mV
				0.06	+ 70mV	0.12	+ 70mV	0.2	+ 70mV
1000V	1050.000	1mV	1MOhm / 130pF						
10Hz to 40Hz				0.12	+ 200mV	0.24	+ 200mV	0.4	+ 200mV
40Hz to 1kHz				0.015	+ 120mV	0.03	+ 120mV	0.05	+ 120mV
1kHz to 50kHz				0.06	+ 700mV	0.12	+ 700mV	0.2	+ 700mV

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8081 Extended Specifications : V1.10

AC Current				Stability					
Range	Full Scale	Resolution	Input Impedance	24 Hour		90 Day		1 Year	
				%Read	+ Floor	%Read	+ Floor	%Read	+ Floor
100uA	100.500,0	0.1nA	10k Ohms						
10Hz to 40Hz				0.06	20nA	0.12	20nA	0.2	20nA
40Hz to 1kHz				0.015	20nA	0.03	20nA	0.05	20nA
1kHz to 10kHz				0.021	30nA	0.042	30nA	0.07	30nA
1mA	1.050,000	1nA	1kΩ						
10Hz to 40Hz				0.045	200nA	0.09	200nA	0.15	200nA
40Hz to 1kHz				0.012	200nA	0.024	200nA	0.04	200nA
1kHz to 10kHz				0.021	300nA	0.042	300nA	0.07	300nA
10mA	10.500,00	10nA	100Ω						
10Hz to 40Hz				0.045	2uA	0.09	2uA	0.15	2uA
40Hz to 1kHz				0.012	2uA	0.024	2uA	0.04	2uA
1kHz to 10kHz				0.021	30uA	0.042	30uA	0.07	30uA
100mA	105.000,0	100nA	10Ω						
10Hz to 40Hz				0.045	20uA	0.09	20uA	0.15	20uA
40Hz to 1kHz				0.012	20uA	0.024	20uA	0.04	20uA
1kHz to 10kHz				0.021	30uA	0.042	30uA	0.07	30uA
1A	1.050,000	1uA	0.5Ω						
10Hz to 40Hz				0.06	200uA	0.12	200uA	0.2	200uA
40Hz to 1kHz				0.018	200uA	0.036	200uA	0.06	200uA
1kHz to 10kHz				0.03	300uA	0.06	300uA	0.1	300uA
10A	10.500,00	10uA	10mΩ						
10Hz to 40Hz				0.09	2mA	0.18	2mA	0.3	2mA
40Hz to 1kHz				0.024	2mA	0.048	2mA	0.08	2mA
30A	30.500,0	100uA	10mΩ						
10Hz to 40Hz				0.09	9mA	0.18	9mA	0.3	9mA
40Hz to 1kHz				0.03	9mA	0.06	9mA	0.1	9mA

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