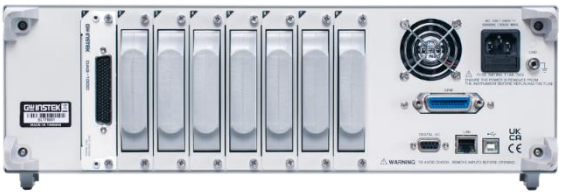
DAQ-10600 規格

規格適用於在環境中熱機至少 60 分鐘時





(with optional GPIB)

Note :

- All specifications are ensured only under a single display.
- At least 1 hour of warm-up time is required before applying these specifications.
- MAX DC 600 V, AC 400 V

功能	檔位(2)	解析度	輸入電阻或 其他.	24 小時 TCAL ± 1 °C	90 天 TCAL ± 5 °C	1 年 TCAL ± 5 °C	溫度係數 0 °C to 18 °C / 28 °C to 55 °C
直流特性							準確度 : ± (讀值% + 檔位%)
直流電壓 (1)	100.0000 mV	0.1 µV	10 MΩ or > 10 GΩ	0.0030 + 0.0050	0.0040 + 0.0060	0.0050 + 0.0060	0.0005 + 0.0005
	1.000000 V	1 µV	10 MΩ or > 10 GΩ	0.0020 + 0.0006	0.0035 + 0.0007	0.0048 + 0.0007	0.0005 + 0.0001
	10.00000 V	10 µV	10 MΩ or > 10 GΩ	0.0015 + 0.0004	0.0020 + 0.0005	0.0035 + 0.0005	0.0005 + 0.0001
	100.0000 V	0.1 mV	10 MΩ ± 1%	0.0020 + 0.0006	0.0035 + 0.0006	0.0050 + 0.0006	0.0005 + 0.0001
	600.000 V	1 mV	10 MΩ ± 1%	0.0025 + 0.0020	0.0040 + 0.0020	0.0050 + 0.0020	0.0005 + 0.0001
電阻 (1)(3)	100.0000 Ω	100 µΩ	1 mA	0.003 + 0.0030	0.008 + 0.004	0.010 + 0.004	0.0008 + 0.0005
	1.000000 kΩ	1 mΩ	1 mA	0.002 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.0008 + 0.0001
	10.00000 kΩ	10 mΩ	100 µA	0.002 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.0008 + 0.0001
	100.0000 kΩ	100 mΩ	10 µA	0.002 + 0.0005	0.008 + 0.001	0.010 + 0.001	0.0008 + 0.0001
	1.000000 MΩ	1 Ω	5 µA	0.002 + 0.0010	0.008 + 0.001	0.010 + 0.001	0.0010 + 0.0002
	10.00000 MΩ	10 Ω	500 nA	0.015 + 0.0010	0.020 + 0.001	0.040 + 0.001	0.0030 + 0.0004
	100.0000 MΩ	100 Ω	500 nA// 10 MΩ	0.300 + 0.0100	0.800 + 0.010	0.800 + 0.010	0.1500 + 0.0004
	1.000000 GΩ	1 kΩ	500 nA// 10 MΩ	2.500 + 0.0500	3.500 + 0.050	3.500 + 0.050	1.0000 + 0.0040
直流電流 (1)	1.000000 µA	1 pA	< 0.015 V	0.025 + 0.050	0.050 + 0.050	0.050 + 0.050	0.002 + 0.003
	10.00000 µA	10 pA	< 0.15 V	0.020 + 0.010	0.040 + 0.025	0.050 + 0.025	0.002 + 0.003
	100.0000 µA	100 pA	< 0.020 V	0.010 + 0.020	0.040 + 0.025	0.050 + 0.025	0.002 + 0.003
	1.000000 mA	1 nA	< 0.20 V	0.007 + 0.006	0.030 + 0.006	0.050 + 0.006	0.002 + 0.001
	10.00000 mA	10 nA	< 0.15 V	0.007 + 0.020	0.030 + 0.020	0.050 + 0.020	0.002 + 0.002
	100.0000 mA	100 nA	< 0.7 V	0.010 + 0.004	0.030 + 0.005	0.050 + 0.005	0.002 + 0.001
	2.000000 A	1 µA	< 0.8 V	0.180 + 0.020	0.200 + 0.020	0.200 + 0.020	0.005 + 0.001
二極體(1)(4)	5.00000 V	10 µV	1 mA	0.002 + 0.030	0.008 + 0.030	0.01 + 0.030	0.001 + 0.002

交流特性							準確度 : ± (讀值% + 檔位%)
True RMS 交流電壓 (5)(6)(7)(8)	100.0000 mV	0.1 µV	3 Hz to 5 Hz	1.00 + 0.03	1.00 + 0.04	1.00 + 0.04	0.100 + 0.004
			5 Hz to 10 Hz	0.35 + 0.03	0.35 + 0.04	0.35 + 0.04	0.035 + 0.004
			10 Hz to 20 kHz	0.04 + 0.03	0.05 + 0.04	0.06 + 0.04	0.005 + 0.003
			20 kHz to 50 kHz	0.10 + 0.05	0.11 + 0.05	0.12 + 0.05	0.011 + 0.005
			50 kHz to 100 kHz	0.55 + 0.08	0.60 + 0.08	0.60 + 0.08	0.060 + 0.008
			100 kHz to 300 kHz	4.00 + 0.50	4.00 + 0.50	4.00 + 0.50	0.200 + 0.020
	1.000000 V to 400.000 V	1 µV to 1 mV	3 Hz to 5 Hz	1.00 + 0.02	1.00 + 0.03	1.00 + 0.03	0.100 + 0.004
			5 Hz to 10 Hz	0.35 + 0.02	0.35 + 0.03	0.35 + 0.03	0.035 + 0.004
			10 Hz to 20 kHz	0.04 + 0.02	0.05 + 0.03	0.06 + 0.03	0.005 + 0.003
			20 kHz to 50 kHz	0.10 + 0.04	0.11 + 0.05	0.12 + 0.05	0.011 + 0.005
			50 kHz to 100 kHz	0.55 + 0.08	0.60 + 0.08	0.60 + 0.08	0.060 + 0.008
			100 kHz to 300 kHz	4.00 + 0.50	4.00 + 0.50	4.00 + 0.50	0.200 + 0.020
True RMS 交流電流 (5)(7)(8)	100.0000 µA (Burden Voltage < 0.020 V)	100 pA	3 Hz to 5 Hz	1.00 + 0.04	1.00 + 0.06	1.00 + 0.06	0.100 + 0.006
			5 Hz to 10 Hz	0.35 + 0.04	0.35 + 0.06	0.35 + 0.06	0.035 + 0.006
			10 Hz to 5 kHz	0.10 + 0.04	0.10 + 0.06	0.10 + 0.06	0.015 + 0.006
			5 kHz to 10 kHz	0.18 + 0.04	0.18 + 0.10	0.18 + 0.10	0.035 + 0.006
	1.000000 mA (Burden Voltage < 0.20 V)	1 nA	3 Hz to 5 Hz	1.00 + 0.04	1.00 + 0.04	1.00 + 0.04	0.100 + 0.006
			5 Hz to 10 Hz	0.30 + 0.04	0.30 + 0.04	0.30 + 0.04	0.035 + 0.006
			10 Hz to 5 kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
			5 kHz to 10 kHz	0.15 + 0.04	0.15 + 0.04	0.15 + 0.04	0.030 + 0.006
	10.00000 mA (Burden Voltage < 0.15 V)	10 nA	3 Hz to 5 Hz	1.00 + 0.04	1.00 + 0.04	1.00 + 0.04	0.100 + 0.006
			5 Hz to 10 Hz	0.35 + 0.04	0.35 + 0.04	0.35 + 0.04	0.035 + 0.006
			10 Hz to 5 kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
			5 kHz to 10 kHz	0.18 + 0.04	0.18 + 0.04	0.18 + 0.04	0.030 + 0.006
	100.0000 mA (Burden Voltage < 0.7 V)	100 nA	3 Hz to 5 Hz	1.00 + 0.04	1.00 + 0.04	1.00 + 0.04	0.100 + 0.006
			5 Hz to 10 Hz	0.30 + 0.04	0.30 + 0.04	0.30 + 0.04	0.035 + 0.006
			10 Hz to 5 kHz	0.10 + 0.04	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
			5 kHz to 10 kHz	0.15 + 0.04	0.15 + 0.04	0.15 + 0.04	0.030 + 0.006
	2.000000 A (Burden Voltage < 0.8 V)	1 µA	3 Hz to 5 Hz	1.00 + 0.04	1.00 + 0.04	1.00 + 0.04	0.100 + 0.006
			5 Hz to 10 Hz	0.35 + 0.04	0.35 + 0.04	0.35 + 0.04	0.035 + 0.006
			10 Hz to 5 kHz	0.23 + 0.04	0.23 + 0.04	0.23 + 0.04	0.015 + 0.006
			5 kHz to 10 kHz	0.23 + 0.04	0.23 + 0.04	0.23 + 0.04	0.030 + 0.006
頻率特性							準確度 : ± (讀值%)
頻率 / 週期 (9)(10)(11)(12)	100.0000 mV to 400.000 V	—	3 Hz to 5 Hz	0.100	0.100	0.100	0.100
			5 Hz to 10 Hz	0.050	0.050	0.050	0.035
			10 Hz to 40 Hz	0.030	0.030	0.030	0.015
			40 Hz to 1 MHz	0.006	0.006	0.006	0.015

溫度特性							
溫度(RTD) (13)	-200 °C to -100 °C	0.001 °C	—	—	—	0.09 °C	0.004 °C / °C
	-100 °C to -20 °C	0.001 °C	—	—	—	0.08 °C	0.005 °C / °C
	-20 °C to 20 °C	0.001 °C	—	—	—	0.06 °C	0.005 °C / °C
	20 °C to 100 °C	0.001 °C	—	—	—	0.08 °C	0.005 °C / °C
	100 °C to 300 °C	0.001 °C	—	—	—	0.12 °C	0.007 °C / °C
	300 °C to 600 °C	0.001 °C	—	—	—	0.22 °C	0.009 °C / °C
溫度(熱電偶) (13)	-200 °C to +1000 °C	0.002 °C	E	—	—	0.2 °C	0.03 °C / °C
	-210 °C to +1200 °C	0.002 °C	J	—	—	0.2 °C	0.03 °C / °C
	-200 °C to +400 °C	0.002 °C	T	—	—	0.3 °C	0.04 °C / °C
	-200 °C to +1372 °C	0.002 °C	K	—	—	0.3 °C	0.04 °C / °C
	-200 °C to +1300 °C	0.003 °C	N	—	—	0.4 °C	0.05 °C / °C
	-50 °C to +1768 °C	0.01 °C	R	—	—	1 °C	0.14 °C / °C
	-50 °C to +1768 °C	0.01 °C	S	—	—	1 °C	0.14 °C / °C
	+350 °C to +1820 °C	0.01 °C	B	—	—	1 °C	0.14 °C / °C
溫度(熱敏電阻) (13)	–80 °C to 150 °C	0.01 °C	—	—	—	0.01 °C	0.003 °C / °C
電容特性							準確度 : ± (讀值% + 檔位%)
電容 (14)	1.000 nF	—	—	2.00 + 2.00	2.00 + 2.00	2.00 + 2.00	0.05 + 0.01
	10.00 nF	—	—	2.00 + 1.00	2.00 + 1.00	2.00 + 1.00	0.05 + 0.01
	100.0 nF	—	—	2.00 + 0.40	2.00 + 0.40	2.00 + 0.40	0.05 + 0.01
	1.000 µF	—	—	2.00 + 0.40	2.00 + 0.40	2.00 + 0.40	0.05 + 0.01
	10.00 µF	—	—	2.00 + 0.40	2.00 + 0.40	2.00 + 0.40	0.05 + 0.01
	100.0 µF	—	—	2.00 + 0.40	2.00 + 0.40	2.00 + 0.40	0.05 + 0.01
顯示幕		5" color WQVGA (480x272) with LED backlight					
介面		USB host/device, LAN, Digital I/O; GPIB(optional)					
使用電源		AC 100 V to 240 V					
電源頻率		50 Hz / 60 Hz					
消耗功率		Max. 150 VA					
尺寸 (W x H x D)		430 mm x 145 mm x 485 mm					
重量		Approx. 7.35 kg					

[1]. DC Specification: In addition to the availability that requires warm-up of 60 minutes, it must be set in 5/s speed rate, A-Zero on.

[2]. The entire range of measurement will pass the set range by 20% except the tests of 600 V DC, 400 V AC, 2 A DC, 2 A AC and diode.

[3]. This specifications applies to 4-wire ohms function or 2-wire ohms using math null for offset. Without math null, add 2 Ω additional error in 2-wire ohms function. The 100 Mohm and 1 Gohm ranges are 2-wire only.

[4]. This specification applies to the voltage measured from input terminal. 1 mA test current is the typical value. The change of current source leads to the variation in buck of diode junction.

[5]. AC Specification: It will be available after 60 minutes of warm-up, sine wave as well as 1/s speed rate.

[6]. Specifications are for sinewave input > 5% of range. For inputs from 1% to 5% of range and < 50 kHz, add 0.1% of range additional error. For 50 kHz to 100 kHz, add 0.13% of range. The measurement range of 400 VAC is limited within the range of 7.5 x 10^7 Volt–Hz.

[7]. Three speed settings provided for low-frequency performance: 1/s (3 Hz), 5/s (20 Hz), 20/s (200 Hz). Additional errors will Not occur for the frequency greater than the filter settings.

[8]. Specifications are for sinewave input > 5% of range, and is beyond 10 µA AC. For inputs from 1% to 5% of range, add 0.1% of range additional error.

[9]. This specification will be available after 60 minutes of warm-up and sine wave input, unless stated otherwise. This specification applies to 1s gate time.

[10]. This specification is available when both sine wave and square wave input ≥ 100 mV. For the input of 10 mV to 100 mV, the % of reading error needs to be multiplied by 10 times.

[11]. The amplitude range is from 10% to 120% and is lower than 400 VAC.

[12]. The input ≥ 60 mV, for 300 kHz to 1 MHz, within 100 mV range.

[13]. The actual measurement range and test lead error will be constrained by the adopted test lead. The test lead accuracy adder covers all errors of measurements and ITS-90 temperature change.

[14]. Specifications are for film Capacitance inputs that are greater than 10% range. range.

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