GSM-20H10

(€ RS-232

Precision Source Meter

USB

LAN

GPIB





GSM-20H10 is a precision source meter, which can accurately utilize voltage or current and measure voltage and/or current at the same time. Its power supply and measurement range is ±210V / ±1.05A / 22W, and it incorporates the practical functions of a digital multimeter (DMM), power supply, precision source meter, and electronic load. This product provides an accurate measurement accuracy of 0.012%, as well as a multimeter function with 6.5-digit high resolution, and the measurement accuracy can reach up to 1uV/10pA.

GSM-20H10 can be applied to many applications, such as battery characteristic evaluation, semiconductor characteristic testing, and various electronic material characteristic evaluation, etc. For resistance measurement, it supports up to 6-wire measurement function, which can measure more accurately compared to general equipment that only supports 4-wire measurement.

With respect to sampling rate, GSM-20H10 supports a sampling rate of up to 50k points/second, which can accurately analyze the characteristics of the DUT. Through the large 4.3-inch screen, all measurement settings, parameters and results can be completely displayed on the screen. The SDM (Source Delay Measure) function is provided to delay sampling when the signal changes, so as to prevent the unstable signal from being captured and cause misjudgment. There are four built-in sequence output modes (Stair, Log, SRC-MEM, Custom), which can support up to 2500 points of sequence variation output.

Pertaining to protection, GSM-20H10 provides OVP/OTP mode. The design of OVP allows users to self-define the range of OVP. OTP can effectively prevent errors caused by temperature drift during the test process. For interfaces, this product supports standard SCPI commands and provides GPIB, RS-232, USB Device/HOST, LAN interfaces to meet the different interface needs of users.



FEATURES

GWINSTEK Simply Reliable

- * Maximum Output ±210V/±1.05A/22W
- * 0.012% Basic Measure Accuracy with 6½-digit Resolution
- * 2-, 4-, and 6-wire Remote V-source and Measure Sensing
- * Variable Sampling Speed (Fast/Medium/Normal/ High/Other)
- * SDM (Source Delay Measure) Measurement Cycle
- * Built-in 4 Sequence Output Modes (Stair, Log, SRC-MEM, Custom), up to 2500 Points
- * Built-in Limit Function, Supports 11 Groups of Limit Tests
- * OVP /OTP Protection Function
- * Built-in 5 Calculation Functions
- * 4.3-inch TFT LCD
- * Provide Digital Number Keyboard Input
- * Standard SCPI GPIB, RS-232, USB(USBTMC), LAN

APPLICATIONS

- * Semiconductor Device Characteristic Testing
- * Energy and Efficiency Characteristic Testing
- * Sensor Characteristic Testing
- * Organic Material Characteristic Testing
- * Nanomaterial Characteristic Testing

	FICATIONS CHANNELS			1							
		DIGITS	VOLTAGE	6½ ±210V							
	MAX. RANGE	OUTPUT	CURRENT	±1.05A							
			POWER VOLTAGE	22W 5µV							
			CURRENT 50pA								
		TEMPERATURE COEFFICIENT(0'-18'C & 28'-50'C) CURRENT LIMIT		±(0.15 × accuracy specification)/°C Min. 0.1% of range							
	VOLTAGE	SOURCE/SINK LIMITS		±21V@±1.05A, ±210V@±105 mA							
		LINE/LOAD REGULATION OVERSHOOT		Line : 0.01% of range/Load : 0.01% of range + 100µV <0.1% typical (full scale step,resistive load,10mA range)							
		NOISE (Peak-Peak)	IOISE (Peak-Peak) 0.1Hz - 10Hz		200.000mV 2.00000V 20.0000V 200.000V 5µV 50µV 500µV 5mV						
		10Hz–1MHz				10		mV			
		RESOLUTION & RANGE PROG. RESOLUTION		±200.000mV 5µV		±2.00000V 50µV		±20.0000V 500µV		±200.000V 5mV	
Source		ACCURACY ACCURACY ACCURACY TEMPERATURE COEFFICIENT(0'-18'C & 28'-50'C)		±(0.02% + 600µV) ±(0.02% + 600µV) ±(0.02% + 2.4mV) ±(0.02% + 2.4mV)							
1 Year) 23°C ±5°C		VOLTAGE LIMIT		±(0.15 × accuracy specification)/°C Min. 0.1% of range							
	CURRENT	SOURCE/SINK LIMITS LINE/LOAD REGULATION		±1.05A@±21V, ±105mA@±210V Line : 0.01% of range/Load : 0.01% of range + 100pA							
		OVERSHOOT		<0.1% typical (1mA step, RL = 10kΩ, 20V range)							
		NOSIE (Peak-Peak) (0.1Hz - 10Hz)	RANGE NOISE	1.00000µA 5pA	10.0000µA 5nA	100.000μA 50nA	1.00000mA 500nA	10.0000mA 50μA	100.000mA 1µA	1.00000A 100µA	
		RESOLUTION &	RANGE PROG. RESOLUTION	±1.00000µA 50pA	±10.0000µA 500pA	±100.000µA 5nA	±1.00000mA 50nA	±10.0000mA 500nA	±100.000mA 5µA	±1.00000A 50µA	
		ACCURACY	ACCURACY	±(0.035%+600pA)	±(0.033%+2nA)	±(0.031%+20nA)	±(0.034%+200nA)	±(0.045%+2µA)	±(0.066%+20µA)	±(0.27%+900µA)	
	TRANSIENT RESPONSE TIME OUTPUT SETTLING TIME			30µs minimum 100µs Typical time							
	OUTPUT SLEW RATE (±30%) DC FLOATING VOLTAGE			0.5V/µs, 200V range, 100mA compliance ; 0.08V/µs, 20V range, 100mA compliance							
	REMOTE SENSE	REMOTE SENSE		Output can be floated up to ±250VDC Up to 1V drop per load lead							
	COMPLIANCE ACCUR RANGE CHANGE OVE	COMPLIANCE ACCURACY RANGE CHANGE OVERSHOO T		Add 0.3% of range and ±0.02% of reading to base specification 100mV typical							
	MINIMUM COMPLIANCE VALUE COMMAND PROCESSING TIME			0.1% of range							
	Digit		Autorange On : 10ms/Autorange Off : 7ms 6%								
	MAX. RANGE	RESOLUTION VOLTAGE CURRENT		1μV 10ρΑ							
		TEMPERATURE COEFFICIENT(0'-18'C & 28'-50'C)		±(0.15 × accuracy specification)/°C							
	VOLTAGE	RESOLUTION & RANGE		>10 GΩ ±200.000mV		±2.00000V		±20.0000V		±200.000V	
		ACCURACY MEAS. RESOLUTION MEAS. ACCURACY		1μV ±(0.012%+300μV)		10µV ±(0.012%+300µV)		100µV ±(0.015%+1.5mV)		1mV ±(0.015%+10mV)	
		TEMPERATURE COEFFICIENT(0°-18°C & 28°-50°C)		2(0.012/01200µ¥)		±(0.1 × accuracy s		specification) / °C		(0.013/01101114)	
	CURRENT	VOLTAGE BURDEN RESOLUTION &	RANGE	±1.00000µA	±10.0000µA	±100.000µA	< 1 ±1.0000mA	mV ±10.0000mA	±100.000mA	±1.00000A	
		ACCURACY	MEAS. RESOLUTION MEAS. ACCURACY	10pA ±(0.029%+300pA)	100pA ±(0.027%+700pA)	1nA ±(0.025%+6nA)	10nA ±(0.027%+60nA)	100nA ±(0.035%+600nA)	1μΑ ±(0.055%+6μΑ)	10μA ±(0.22%+570μA)	
/leasurement		TEMPERATURE COE	FFICIENT(0"-18"C & 28"-50"C)				±(0.15 × accuracy	specification)/°C	, , ,	•	
Year) 23°C ±5°C			RANGE RESOLUTION	<2.00000Ω	2.00000Ω 10μΩ	20.0000Ω 100μΩ	200.000Ω 1mΩ	2.00000KΩ 10mΩ	20.0000KΩ 100mΩ	20.0000KΩ 1Ω	20.0000KΩ 10Ω
			TEST CURRENT	-	-	100mA	10mA	1mA	100µA	10µA	1μA
		RESOLUTION &	NORMAL ACCURACY ENHANCED	Source IACC+Meas.VACC		±(0.1%+0.003 Ω) ±(0.07%+0.001 Ω)	±(0.08%+0.03 Ω) ±(0.05%+0.01 Ω)	±(0.07%+0.3 Ω) ±(0.05%+0.1 Ω)	$\pm (0.06\%+3 \Omega)$ $\pm (0.04\%+1 \Omega)$	$\pm (0.07\%+30 \Omega)$ $\pm (0.05\%+10 \Omega)$	±(0.11%+300 0 ±(0.05%+100 0
		ACCURACY	ACCURACY RANGE	20.0000MΩ	IACC+Meas.VACC 200.000MΩ	±(0.07%+0.001 Ω) >200.000MΩ	±(0.03%+0.01 12)	±(0.03%+0.1 Ω)	±(0.04%+1 12)	±(0.03%+1012)	±(0.03%+100%
	RESISTANCE		RESOLUTION	100Ω	1kΩ						
			TEST CURRENT NORMAL ACCURACY	1μA ±(0.11%+1k Ω)	100nA ±(0.66%+10k Ω)	 Source	-				
		ENHANCED SOURCE I MODE, MANUAL OHMS		±(0.176+1K1) = ±(0.050+1K1) ±(0.05%+50 0) ± ±(0.35%+5k 0) ACC+Meas.VACC Total uncertainty = source accuracy							
		SOURCE V MODE, MANUAL OHMS		Total uncertainty = V source accuracy							
	6-WIRE OHMS MO GUARD OUTPUT II			Available using active ohms guard and guard sense <0.1Ω in ohms mode							
	MEASUREMENT	MAXIMUM RANGE O MAXIMUM MEASUR	75/second 40ms (fixed source)								
				Fast	IEEE-488.1	Fast	IEEE-488.2	Medium	IEEE-488.2	Normal	IEEE-488.2
		NPLC/TRIGGER ORI	GIN TO MEMORY	0.01/Internal 2081 (2030)	0.01/External 1239 (1200)	0.01/Internal 2081 (2030)	0.01/External 1239 (1200)	0.10/Internal 510 (433)	0.10/Internal 438 (380)	1.00/Internal 59 (49)	1.00/Internal 57 (48)
			TO GPIB	1754	1254	1198 (1210)	1079 (1050)	509 (433)	438 (380)		
	SW/EED ODEDATION	MEASUREMENT			1019 (000)					59 (49)	57 (48)
	SWEEP OPERATION READING RATES	SOURCE- MEASUREMENT	TO MEMORY TO GPIB	1551 (1515) 1369	1018 (990) 1035	1551 (1515) 1000 (900)	1018 (990) 916 (835)	470 (450) 470 (410)	409 (360) 409 (365)	59 (49) 58 (48) 58 (48)	57 (48) 57 (47)
SYSTEM		SOURCE- MEASUREMENT	TO MEMORY TO GPIB TO MEMORY	1551 (1515) 1369 902 (900)	1035 830 (830)	1551 (1515) 1000 (900) 902 (900)	1018 (990) 916 (835) 830 (830)	470 (450) 470 (410) 389 (343)	409 (360) 409 (365) 374 (333)	59 (49) 58 (48) 58 (48) 56 (47)	57 (48) 57 (47) 56 (47)
SYSTEM SPEEDS	READING RATES	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL. TEST	TO MEMORY TO GPIB TO MEMORY TO GPIB	1551 (1515) 1369 902 (900) 981	1035 830 (830) 886	1551 (1515) 1000 (900) 902 (900) 808 (840)	1018 (990) 916 (835) 830 (830) 756 (780)	470 (450) 470 (410) 389 (343) 388 (343)	409 (360) 409 (365) 374 (333) 374 (333)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47)	57 (48) 57 (47) 56 (47) 56 (47)
	READING RATES (rdg./second) for 60Hz (50Hz)	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY	TO MEMORY TO GPIB TO MEMORY TO GPIB TO MEMORY TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165	1035 830 (830) 886 163 (160) 163	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160)	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 44 (38)	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38)
	READING RATES	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL TEST SOURCE-MEMORY NPLC/TRIGGER ORI- MEASUREMENT TO MEASUREMENT TO	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB CIN CPIB CPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/li	1035 830 (830) 886 163 (160)	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal	470 (450) 470 (410) 389 (343) 388 (343) 133 (126)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) tternal	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 44 (38) 1.00/I	57 (48) 57 (47) 56 (47) 56 (47) 44 (38)
	READING RATES (rdg,/second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL. TEST SOURCE-MEMORY NPLC/TRIGGER ORI- MEASUREMENT TO SOURCE-MEASUREM	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GPIB EENT TO CPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/li 5; 1,	1035 830 (830) 886 163 (160) 163 internal 37 40	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/lr 256 6 79 (1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83)	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg,/second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORI MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN	TO MEMORY TO CPIB TO MEMORY TO GPIB TO MEMORY TO CPIB GIN CPIB MENT TO CPIB MENT TO CPIB MENT PASS/FALL. TEST	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/li 5. 17. Fast : 0.01/External	1035 830 (830) 886 163 (160) 163 internal 37 40 35 I Medium : 1	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/h 256 (79 0.10/External	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) Normal : 1.00/Exter	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 72 (69 (nal	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42)
	READING RATES (rdg,/second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES (rdg,/second) for 60Hz (50Hz)	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORIN SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORIN	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB CIN CPIB MENT TO CPIB MENT TO SPIB MENT PASS/FALL TEST CIN	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/li 5. 1 1 1. 1 1.	1035 830 (830) 886 163 (160) 163 internal 37 40 35 I Medium : 1 ms) Medium : 2	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/li 2566 79 (79 (0.10/External 2.55ms (2.9ms)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) (83)	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg,/second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORI MEASUREMENT TO SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREM TMEASURE TO GPIB SOURCE PASS/FALL	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB CIN CPIB MENT TO CPIB MENT TO SPIB MENT PASS/FALL TEST CIN	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/li 5: 175 175 Fast : 0.01/External Fast : 0.01/External Fast : 1.04ms (1.08 Fast : 4.82ms (5.3m Stable into 20,000pl	1035 830 (830) 886 163 (160) 163 internal 37 40 35 I Medium :: ims) Medium :	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/li 2566 79 (79 (0.10/External 2.55ms (2.9ms)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) Normal : 17.53ms (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg./second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES (rdg./second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL TEST SOURCE-MEMORY NPLC/TRIGGER ORI MEASUREMENT TO SOURCE-MEASUREN NPLC/TRIGGER ORI MEASURE TO GPIB SOURCE PASS/FALL VOLTAGE LTAGE	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB CIN CPIB MENT TO CPIB MENT TO SPIB MENT PASS/FALL TEST CIN	1551 (1515) 1369 902 (900) 981 165 (162) 165 165 17 Fast : 0.01//L Fast : 0.01/External Fast : 0.01/External Fast : 0.01/External Fast : 0.01/External Stable into 20,000pl 250 V Pk 250 V DC	1035 830 (830) 886 163 (160) 163 internal 37 40 35 I Medium :: ims) Medium :	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/li 2566 79 (79 (0.10/External 2.55ms (2.9ms)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) Normal : 17.53ms (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg,/second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE ISO OVERRANGE	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORIN SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORIN MEASURET O GPIB SOURCE PASS/FALL VOLTAGE LTAGE LATION	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GIN GIN GIN GIN TO CPIB MENT PASS/FALL TEST GIN .TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/Lit Fast : 0.01/External Fast : 0.04ms (1.08) Fast : 0.04ms (1.08) Fast : 4.82ms (5.3m Stable into 20,000pt 250 V PK	1035 830 (830) 886 163 (160) 163 Internal 37 40 35 Medium : rs) Medium : F typical	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/li 2566 79 (79 (0.10/External 2.55ms (2.9ms)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) Normal : 17.53ms (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg./second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES (rdg./second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE ISO OVERRANGE MAX.VOLTAGE DROP	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORI- MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORI- NELC/TRIGGER ORI- SOURCE PASS/FALL VOLTAGE LIATION	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GIN GIN GIN GIN TO CPIB MENT PASS/FALL TEST GIN .TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 165 165 175 Fast : 0.01/External Fast : 0.01/External Fast : 0.01/External Fast : 0.01/External Fast : 0.01/External 500 / 250	1035 830 (830) 886 163 (160) 163 (160) 163 77 40 35 I Medium : ms) Medium : F typical	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/li 2566 79 (79 (0.10/External 2.55ms (2.9ms)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) Normal : 17.53ms (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg./second) for 60Hz (50Hz) OPERATION READING RATES (rdg./second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE ISO OVERRANGE MAX.VOLTAGE DROP MAX. SENSE LEAD RES SENSE INSE LEAD RES	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL TEST SOURCE-MEMORY NPLC/TRIGGER ORI/ MEASUREMENT TO SOURCE-MEASUREN NPLC/TRIGGER ORI/ MEASURE TO GPIB SOURCE PASS/FALL VOLTAGE LIATON INCE MEASURE NIPUT/OUTPUT/ ISISTANCE	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GIN GIN GIN GIN TO CPIB MENT PASS/FALL TEST GIN .TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/li 5: 1: Fast: 0.01/External Fast: 1.04ms (1.08 Fast: 1.04ms (1.08 Fast: 4.82ms (5.3m Stable into 20.000pf 250 V PK 250V DC >10 G5Q, <1000pf	1035 830 (830) 886 163 (160) 163 (160) 163 77 40 35 I Medium : ms) Medium : F typical	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/li 2566 79 (79 (0.10/External 2.55ms (2.9ms)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) Normal : 17.53ms (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg,/second) for 60Hz (50Hz) OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE VOI COMMON MODE SO OVERRANGE MAX. SENSE LEAD RES	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORI- MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE- SOURCE MEASUREN SOURCE MEASUREN SISTANCE ACE	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GIN GIN GIN GIN TO CPIB MENT PASS/FALL TEST GIN .TEST TO GPIB	$\begin{array}{c} 1551 \ (1515) \\ 1369 \\ 902 \ (900) \\ 981 \\ 165 \ (162) \\ 165 \\ 155 \\ 16$	1035 830 (830) 886 163 (160) 163 internal 37 40 35 I Medium : ms) Medium : rce and measure rracy	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 0.01/li 2566 79 (79 (0.10/External 2.55ms (2.9ms)	1013 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) ntemal (256) (83) Normal : 1.00/Exter Normal : 1.00/Exter Normal : 21.31ms (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg./second) for 60Hz (50Hz) SINGLE READING OPERATION READING RATES (rdg./second) for 60Hz (50Hz) (rdg./second) for 60Hz (50Hz) COMPONENT INE for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE ISO OVERRANGE MAX.VOLTAGE DROP MAX. SENSE LEAD REI SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE MEMORY LIS SOURCE MEMORY LIS	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORIN MEASUREMENT TO SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREM INPLC/TRIGGER ORIN MEASURE TO GPIB SOURCE AND VOLTAGE LITAGE LITAGE LITAGE SISTANCE AGE DES	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GIN GIN GIN GIN TO CPIB MENT PASS/FALL TEST GIN .TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 165 165 165 165 17 Fast: 0.01/External Fast: 0.01/External Fast: 0.01/External Fast: 0.01/External Fast: 0.01/External Fast: 0.01/External 55 10.07 (2000) 500 / DC 500 / DC 105% of range, sour 510 GO 2100 / DC 2100 /	1035 830 (830) 886 163 (160) 163 (160) 163 (160) 37 40 35 I Medium : rs) Medium : Ftypical	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256 79 (0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) unction) / Stair (linear	1013 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) nternal (256) (83) Normal : 1.00/Exter Normal : 1.00/Exter Normal : 21.31ms (r and log)	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
PEEDS	READING RATES (rdg,/second) for 60Hz (50Hz) OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE VOI COMMON MODE VOI COMMON MODE SUS OVERRANGE MAX.VOLTAGE DROP MAX.SELEAD RES SENSE INPUT IMPED/ GUARD OFFSET VOLT SOURCE OUTPUT MO	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORIN MEASUREMENT TO SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORIN MEASURE TO GPIB SOURCE AMAGE SOURCE AMAGE INTOCOMPACTOR (BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ AGE DES	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GIN GIN GIN GIN TO CPIB MENT PASS/FALL TEST GIN .TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/μ 50 763 763 764 765 764 765 765 764 765 765 765 764 765 766 767 766 710 710 710 710 710 710 7100 7100 7100 7100 7100 7100 7100 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500	1035 830 (830) 886 163 (160) 163 164 165 167 37 40 35 I Medium : I frsp Medium : I F typical rece and measure rracy Itemory List (mixed fur iscon 2,500 poi is.0), RS-232	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 256 (162) 79 (179) 0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms)	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
;PEEDS	READING RATES (rdg./second) for 60Hz (50Hz) OPERATION READING RATES (rdg./second) for 60Hz (50Hz) (rdg./second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE ISO OVERRANGE MAX.VOLTAGE DROP MAX. SENSE LEAD REI SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE MEMORY LIST	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORIN MEASUREMENT TO SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORIN MEASURE TO GPIB SOURCE AMAGE SOURCE AMAGE INTOCOMPACTOR (BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ AGE DES	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN GIN GIN GIN GIN TO CPIB MENT PASS/FALL TEST GIN .TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/μ 50 763 763 764 765 764 765 765 764 765 765 765 764 765 766 767 767 710 710 710 710 710 710 7100 7100 7100 7100 7100 7100 7100 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500 7500	1035 830 (830) 886 163 (160) 163 164 165 167 37 40 35 I Medium : I frsp Medium : I F typical rece and measure rracy Itemory List (mixed fur iscon 2,500 poi is.0), RS-232	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256 79 (0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) unction) / Stair (linear	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
	READING RATES (rdg./second) for 60Hz (50Hz) OPERATION READING RATES (rdg./second) for 60Hz (50Hz) (rdg./second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE ISO OVERRANGE MAX.VOLTAGE DROP MAX. SENSE LEAD REI SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE MEMORY LIST	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORIN MEASUREMENT TO SOURCE-MEASUREM SOURCE-MEASUREM SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORIN MEASURE TO GPIB SOURCE AMAGE SOURCE AMAGE INTOCOMPACTOR (BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ BETWEEN INPUT/OUTPUT/ AGE DES	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN CPIB MENT TO CPIB MENT PASS/FALL TEST GIN TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 101/1 5: 101 Fast: 0.01/External Fast: 1.04ms (1.08 Fast: 4.82ms (5.3m Stable into 20,000pf 250 V PC >10 CG2, <1000pF	1035 1035 830 (830) 886 163 (160) 163 (160) 163 internal 37 40 35 1 Medium : ims) Medium : Ftypical rrce and measure rracy leemory List (mixed fui digits (two 2,500 poi 5.0), RS-232 wer-up states plus fac test, 3 category bits.	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256 (162) 799 (0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) int buffers). Includes s ctory default and *RST +5V@ 300mA supply	1018 (990) 916 (835) 830 (830) 756 (780) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (160) 163 (160) 1758 (83) Normal : 1.00/Exte (83) Normal : 1.00/Exte (83) Normal : 1.00/Exte Normal : 21.31ms (r and log) selected	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
PEEDS	READING RATES (rdg,/second) for 60Hz (50Hz) OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE ISO OVERRANGE MAX: VOLTAGE DROP MAX: SENSE LEAD RES SENSE INPUT IMPED/ GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE MEMORY LIS MEMORY BUFFER PROGRAMMABILITY DIGITAL INTERFACE POWER SUPPLY	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORI MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORI MEASURE TO GPIB SOURCE PASS/FALL VOLTAGE LITAGE LITAGE LITAGE LITAGE SISTANCE AGE DDES ST	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB CON CON TO CPIB MENT PASS/FALL TEST CIN TEST TO GPIB AND SENSE TERMINALS) OUTPUT ENABLE	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/μ 51 165 0.01/μ 51 165 165 981 165 0.01/μ 51 165 167 168 168 170 250 V PK 250 V PK 250 V PC >10 GΩ, <1000pF	1035 1035 1037 103 (160) 163 (160) 163 163 163 163 163 163 163 163	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 79 (0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) .10/External int buffers). Includes s ctory default and *RST	1013 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (160) 162 (160) 175 (160)	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
PEEDS	READING RATES (rdg./second) for 60Hz (S0Hz) SINGLE READING OPERATION READING RATES (rdg./second) for 60Hz (S0Hz) (rdg./second) for 60Hz (S0Hz) (COMPONENT INTERFACE HANDLER TIME for 60Hz (S0Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE ISO OVERRANGE MAX.VOLTAGE DROP MAX. SENSE LEAD REI SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE OUTPUT MO SOURCE MEMORY US MEMORY BUFFER PROGRAMMABILITY DIGITAL INTERFACE POWER SUPPLY	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL TEST SOURCE-MEMORY NPLC/TRIGGER ORI- MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORI- MEASURE TO GPIB SOURCE PASS/FALL VOLTAGE LIATION (BETWEEN INPUT/OUTPUT / SISTANCE ANCE AGE ST	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN CPIB MENT TO CPIB MENT PASS/FALL TEST GIN TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 101 165 165 165 165 165 165 165 165 165 165 165 165 165 165 167 168 17 18 18 190 190 100<	1035 1035 103 (160) 163 (160) 163 (160) 163 (160) 163 (160) 163 (160) 163 (160) 163 (160) 163 (160) 175 (160)	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 79 (0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) 	1013 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 162 (160) 163 (160) 162 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 162 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 175 (160)	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 131 (125) 166) 70)	59 (49) 58 (48) 58 (48) 56 (47) 56 (47) 44 (38) 1.00/1 49 34	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
PEEDS	READING RATES (rdg,/second) for 60Hz (50Hz) OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) COMMON MODE ISO OVERRANGE MAX.VOLTAGE DROP MAX. SENSE LEAD RES SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE MEMORY LIS MEMORY BUFFER PROGRAMMABILITY DIGITAL INTERFACE POWER SUPPLY POWER CONSUMPTIC REMOTE/LOCATION CO	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORIN MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORIN MEASURE TO GPIB SOURCE PASS/FALL VOLTAGE LITAGE LITAGE LITAGE SISTANCE AGE DDES ST	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN CPIB MENT TO CPIB MENT PASS/FALL TEST GIN TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 101 165 165 165 161 162 163 164 165 165 161 162 163 163 164 165 165 165 165 165 17 18 190 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 100 100 100 100 100 100	1035 1035 830 (830) 886 163 (160) 163 163 164 177 40 35 I Medium : ims) Medium : rce and measure iracy terrer and measure iracy test, 3 category bits tc, 50-60Hz (automal z, 50-60Hz (automal z, 50-60Hz (automal z, 52200m, Ambient	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256 (162) 79 (162) 0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) 100 (2.5ms) 2.55ms (2.9ms) 6.27ms (7.1ms) 100 (2.5ms) 100 (2.	1013 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 163 (160) 163 (160) 162 (160) 163 (160) 163 (160) 163 (160) 163 (160) 164 (160) 175 (780) 175 (780) 163 (160) 164 (160) 175 (780) 163 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 163 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 162 (160) 175 (160)	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/ir 167 (72 (69 (nal 20.9ms) 25.0ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 166) 70) 70)	59 (49) 58 (48) 58 (48) 56 (47) 44 (38) 44 (38) 1.00/1 49 34 35	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
PEEDS	READING RATES (rdg,/second) for 60Hz (50Hz) OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE SO OVERRANGE MAX.VOLTAGE DROP MAX.SENSE LEAD RES SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE OUTPUT MO SOURCE OUTPUT MO SOURCE MEMORY LIS MEMORY BUFFER PROGRAMMABILITY DIGITAL INTERFACE POWER CONSUMPTIC REMOTE/LOCATION C OFFRATION ENVIRON STORAGE ENVIRONA	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORI- MEASUREMENT TO SOURCE-MEASURED SOURCE-MEASURED SOURCE-MEASURED SOURCE PASS/FALL VOLTAGE ILATION (BETWEEN INPUT/OUTPUT / SISTANCE ANCE AGE DES ST DN CONNECTOR DN CONNECTOR MENT IENT	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN CPIB MENT TO CPIB MENT PASS/FALL TEST GIN TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/μ 51 165 0.01/μ 51 165 165 165 161 51 162 17 18 190 101 102 250 V PK 250 V PK 250 V PK 250 V PC >102 250 V PK 250 V PK >102 250 V PK 250 V PK 105% of range, sour 500 readings @ 5 1000 cΩ <150µV, typical	1035 1035 1035 830 (830) 886 163 (160) 163 (160) 163 163 163 163 163 163 163 17 10 17 10 17 10	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256m (22ms) 6.27ms (7.1ms) 6.27ms (7.1ms) 7.27ms (7.1ms) 7	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (33) (83) Normal : 1.00/Extee Normal : 1.00/Extee Normal : 1.253ms (Normal : 21.31ms (r and log) selected r c, Relative humidity:	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms) 25.0ms) 5 80%, Installation ca	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 166) 70) 70) 70) 70) 70)	59 (49) 58 (48) 58 (48) 56 (47) 44 (38) 44 (38) 1.00/1 49 34 35	57 (48) 57 (47) 56 (47) 56 (47) 44 (38) 44 (38) nternal (42) (31)
PEEDS	READING RATES (rdg./second) for 60Hz (S0Hz) OPERATION READING RATES (rdg./second) for 60Hz (S0Hz) (rdg./second) for 60Hz (S0Hz) (rdg./second) for 60Hz (S0Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (S0Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOL COMMON MODE SO OVERRANGE MAX.VOLTAGE DROP MAX. SENSE LEAD REI SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE OUTPUT MO SOURCE MEMORY LIST MEMORY BUFFER PROGRAMMABILITY DIGITAL INTERFACE POWER SUPPLY POWER SUPPLY POWER ENVIRON	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORI- MEASUREMENT TO SOURCE-MEASURED SOURCE-MEASURED SOURCE-MEASURED SOURCE PASS/FALL VOLTAGE ILATION (BETWEEN INPUT/OUTPUT / SISTANCE ANCE AGE DES ST DN CONNECTOR DN CONNECTOR MENT IENT	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN CPIB MENT TO CPIB MENT PASS/FALL TEST GIN TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/μ 51 165 0.01/μ 51 165 165 165 161 51 162 17 18 190 101 102 250 V PK 250 V PK 250 V PK 250 V PC >102 250 V PK 250 V PK >102 250 V PK 250 V PK 105% of range, sour 500 readings @ 5 1000 cΩ <150µV, typical	1035 1035 1035 830 (830) 886 163 (160) 163 (160) 163 163 163 163 163 163 163 17 10 17 10 17 10	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256 (79 (0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) .255ms (2.	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (163) (83) Normal : 1.00/Exter Normal : 1.00/Exter Normal : 21.31ms (1.00/Exter Normal : 21.31ms (0.000 (2000) 0.000 (2000) 0.0000 (2000) 0.000 (2000) 0.000 (2000) 0.000 (2	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 132 (126) 0.10/Ir 167 (72 (69 (nal 20.9ms) 25.0ms) 55.0ms) 55.0ms) 55.0ms) 55.0ms)	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 166) 70) 70) 70) 70)	59 (49) 58 (48) 58 (48) 56 (47) 44 (38) 1.00/l 49 34 34 35 	57 (48) 57 (47) 56 (47) 44 (38) 44 (38) (42) (31) (30)
ENERAL	READING RATES (rdg,/second) for 60Hz (50Hz) OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE ISO OVERRANGE MAX: YOLTAGE DROP MAX: SENSE LEAD RES SENSE INPUT IMPED/ GUARD OFFSET VOLT SOURCE OUTPUT MC SOURCE MEMORY LIS MEMORY BUFFER PROGRAMMABILITY DIGITAL INTERFACE POWER SUPPLY POWER CONSUMPTIC REMOTE/LOCATION C OPERATION ENVIRON STORAGE ENVIRONS & WEIG ACCESSORIES	SOURCE- MEASUREMENT SOURCE- MEASUREMENT PASS/FALL_TEST SOURCE-MEMORY NPLC/TRIGGER ORIN MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORIN MEASURE TO GPIB SOURCE PASS/FALL VOLTAGE LITAGE LITAGE LITAGE LITAGE SOURCE PASS/FALL VOLTAGE SOURCE PASS/FALL VOLTAGE SOURCE PASS/FALL VOLTAGE SOURCE PASS/FALL SOURCE PASS/FALL S	TO MEMORY TO CPIB TO MEMORY TO CPIB TO MEMORY TO CPIB GIN CPIB MENT TO CPIB MENT PASS/FALL TEST GIN TEST TO GPIB	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/μ 51 165 0.01/μ 51 165 165 165 161 51 162 17 18 190 101 102 250 V PK 250 V PK 250 V PK 250 V PC >102 250 V PK 250 V PK >102 250 V PK 250 V PK 105% of range, sour 500 readings @ 5 1000 cΩ <150µV, typical	1035 1035 830 (830) 886 163 (160) 163 Internal 37 40 35 I Medium : Ftypical rcc and measure rracy Idgits (two 2,500 poi 5,0), RS-232 wer-up states plus fac test, 3 category bits. rL/Relay Drive output diz, So-GoHz (automal) c ≤ 2000m, Ambient 0'C - 70'C, HUMID 355.6 (D) mm, Appro anual x1, Quick Start r	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256 (162) 0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) 2.55ms (2.9ms) 6.27ms (7.1ms) 2.55ms (2.9ms) 4.27ms (7.1ms) 2.55ms (2.9ms) 4.27ms (7.1ms) 4.27ms (7.1ms) 4.27	1018 (990) 916 (835) 830 (830) 756 (780) 163 (160) 162 (160) 162 (160) 162 (163) (83) Normal : 1.00/Exter Normal : 1.00/Exter Normal : 21.31ms (1.00/Exter Normal : 21.31ms (0.000 (2000) 0.000 (2000) 0.0000 (2000) 0.000 (2000) 0.000 (2000) 0.000 (2	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 0.10/lr 167 (72 (69 (nal 20.9ms) 25.0ms) 5 80%, Installation ca	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 166) 70) 70) 70) 70)	59 (49) 58 (48) 58 (48) 56 (47) 44 (38) 1.00/l 49 34 34 35 	57 (48) 57 (47) 56 (47) 44 (38) 44 (38) (42) (31) (30)
ENERAL ORDER	READING RATES (rdg,/second) for 60Hz (50Hz) OPERATION READING RATES (rdg,/second) for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) COMPONENT INTERFACE HANDLER TIME for 60Hz (50Hz) LOAD IMPEDANCE DIFFERENTIAL MODE COMMON MODE VOI COMMON MODE SO OVERRANGE MAX.VOLTAGE DROP MAX.SENSE LEAD RES SENSE INPUT IMPEDA GUARD OFFSET VOLT SOURCE OUTPUT MO SOURCE OUTPUT MO SOURCE OUTPUT MO SOURCE MEMORY LIS MEMORY BUFFER PROGRAMMABILITY DIGITAL INTERFACE POWER CONSUMPTIC REMOTE/LOCATION C OFFRATION ENVIRON STORAGE ENVIRONA	SOURCE. MEASUREMENT SOURCE. MEASUREMENT PASS/FALL.TEST SOURCE-MEMORY NPLC/TRIGGER ORI MEASUREMENT TO SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN SOURCE-MEASUREN NPLC/TRIGGER ORI NPLC/TRIGGER ORI NPLC/TRIGGER ORI SOURCE-MEASUREN TO SOURCE MEASUREN NPLC/TRIGGER ORI SOURCE MEASUREN SOURCE M	TO MEMORY TO GPIB TO MEMORY TO GPIB TO MEMORY TO GPIB GIN GPIB AENT TO GPIB AENT TO GPIB AENT TO GPIB AENT TO GPIB OUTPUT ENABLE HANDLER INTERFACE DIGITAL I/O	1551 (1515) 1369 902 (900) 981 165 (162) 165 0.01/μ 51 165 0.01/μ 51 165 165 165 161 51 162 17 18 190 101 102 250 V PK 250 V PK 250 V PK 250 V PC >102 250 V PK 250 V PK >102 250 V PK 250 V PK 105% of range, sour 500 readings @ 5 1000 cΩ <150µV, typical	1035 1035 830 (830) 886 163 (160) 163 (160) 163 Internal 37 40 35 I Medium :1 ms) Medium :1 rsy Medium :1 rsy Medium :1 rsy Medium :1 rce and measure rracy Itemory List (mixed fur digits (two 2,500 poi is(yo, R5-232) wer-up states plus fac test, 3 category bits. rL/Relay Drive output iz, 50-60Hz (automal is 2000m, Ambient 0° C ~ 70° C, HUMID 356.5 (D) mm, Appro anual x1, Quick Start r	1551 (1515) 1000 (900) 902 (900) 808 (840) 165 (162) 164 (162) 164 (162) 256 (79 (0.10/External 2.55ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) 6.27ms (7.1ms) .10/External .255ms (2.9ms) .255ms (2.	1018 (990) 916 (835) 830 (830) 756 (780) 162 (160) 162 (160) 162 (160) Normal : 1.00/Exter (83) Normal : 1.00/Exter (83) Normal : 1.100/Exter (83) Normal : 1.100/Exter (83) Normal : 1.100/Exter (83) Normal : 1.00/Exter (83) Normal : 1.00/Exter	470 (450) 470 (410) 389 (343) 388 (343) 133 (126) 132 (126) 132 (126) 0.10/lr 167 72 (69 (nal 20.9ms) 25.0ms) 5 80%, Installation ca 5 80%, Installation ca 34 × 1, GTL-204A × 1	409 (360) 409 (365) 374 (333) 374 (333) 131 (125) 131 (125) 131 (125) 166) 70) 70) 70) 70) 70) 70 70 70 70 70 70 70 70 70 70 70 70 70	59 (49) 58 (48) 58 (48) 56 (47) 44 (38) 44 (38) 34 35 	57 (48) 57 (47) 56 (47) 44 (38) 44 (38) (42) (31) (30)

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