

SPECIFICATIONS

VOLTAGE MODE SPECIFICATIONS

Specifications apply at 23°C ±1°C, <70% relative humidity.

Range	Full Scale	Resolution	Current (dc)	Zo (ohms)
100mVdc	±110.0000mVdc	100nVdc	100mA	20μ
1.0Vdc	±1.100000Vdc	1μVdc		
10Vdc	±11.00000Vdc	10μVdc		
100Vdc	±110.0000Vdc	100μVdc		
Short Circuit Current: 200mA max.				

Range	Full Scale	Absolute Accuracy ±(ppm of setting + μV)
		1Year
100mVdc	±110.0000mVdc	20 + 3
1.0Vdc	±1.100000Vdc	20 + 5
10Vdc	±11.00000Vdc	20 + 52
100Vdc	±110.0000Vdc	20 + 500

Temperature Coefficient: 18°C to 22°C, ±5ppm of setting, ±1ppm of range/°C; operating limit, ±10ppm of setting, ±2ppm of range/°C.

Range	24 Hour Stability ±(ppm of setting + μV)
100mVdc	±5 + 1.5
1Vdc	±6 + 1.5
10Vdc	±6 + 10
100Vdc	±6 + 100

Settling Times: 100mV, 1V and 10V range, 2ms; 100V range, 15ms; range changes, 25ms.

Line Regulation: ±2ppm for a 10% line fluctuation.

Load Regulation 4-Wire operation: <±2ppm + 1μV change from no load to 100mA full load. Measurements must be made at sense lead connection point to the load.

Noise and Ripple (rms):

Range	Bandwidth	
	0.1Hz to 10Hz	10Hz to 100kHz
100mVdc	2μVp-p	12μVrms
1Vdc	2μVp-p	25μVrms
10Vdc	4μVp-p	35μVrms
100V	40μVp-p	120μVrms

CURRENT MODE SPECIFICATIONS

Range	Full Scale	Absolute Accuracy ±(ppm of setting + nA)
		1Year
10mAdc	±11.00000mAdc	50 + 50
100mAdc	±110.0000mAdc	50 + 200

Range	Full Scale	Resolution	Voltage Compliance
10mAdc	±11.00000mAdc	10nAdc	100Vdc
100mAdc	±110.0000mAdc	100nAdc	100Vdc

Noise and Ripple (rms):

Range	Bandwidth	
	0.1Hz to 10Hz	10Hz to 100kHz
10mAdc	25nAp-p	400nArms
100mAdc	100nAp-p	400nArms

Temperature Coefficient: 18°C to 22°C, ±5ppm of setting, ±1ppm of range/°C; operating limit, ±10ppm of setting, ±2ppm of range/°C.

Maximum Output Current: ±110mA. Output protected from damage with a current limiter. Output may be shorted to ground indefinitely.

Line Regulation: ±2ppm for a 10% line fluctuation.

Compliance Voltage Effect: <±2ppm + 1μV change for a 100V change in compliance voltage change.

Protection: Voltage mode, short-circuit and over-load protected. Current mode, open circuit protected. Indication by display message. Crowbar once overload is detected.

GPIB PROGRAMMING

Subsets: SH1, AH1, T6, L4, SR1, RL0, PP2, DC0, DT0, E1.

Line Termination: The GPIB EOI signal is always sent with the last character on a line.

Talker Function: Allows interrogation of the Model 526 by a controller.

Communications Data Rate: Typically 3ms without range change, 35ms with range change.