

2.4 Technical Specifications

For physical specifications for model 7501-24, see Table 2 on page 20.

Table 1: Electrical Specifications
(measured at 25°C or 77°F, 50% R.H.)

Parameter	Specifications	
ISOLATION DATA:		
Isolation resistance	100 000 M Ω	
Metallic surge	3 kV maximum	
Insulation voltage	50 kV _{rms} (70 kV peak)	
INPUT VOLTAGE REQUIREMENT	None	
POWER DISSIPATION	None	
TRANSMISSION DATA:		
Longitudinal balance (CO side)	>80 dB @ 60 Hz; >80 dB @ 300 to 3400 Hz	
Echo return loss at either side with opposite side terminated at 600 or 900 Ω	Better than 25 dB	
Signing return loss at either side with opposite side terminated at 600 or 900 Ω	Better than 14 dB	
Crosstalk	Better than -77 dB from 300 to 3400 Hz measured at + 10 dBm	
Maximum voice level	Up to + 10 dBm with less than 1% harmonic distortion	
NOISE		
2 to 100 Hz	-60 dBm	
Voice band (C weighted message)	< 5 dBmC	
Phase jitter	< 0.5°, 300 to 3400 Hz	
Impulse noise	Less than 1 count above 48 dBmC in 30 minutes	
SIGNAL (900 Ω circuit, 0 dBm)	dB typ.	dB max.
Insertion loss @ 50 Hz	0.8	1.5
Insertion loss @ 100 Hz	0.5	1.0
Insertion loss @ 200 Hz	0.3	0.7
Insertion loss @ 1 kHz	0.2	0.7
Insertion loss @ 100 kHz	0.2	0.7
Insertion loss @ 300 kHz	0.5	1.2

Table 2: Physical Specifications

Parameter	Specifications
Operating temperature range	-20°C to +65°C (-4°F to +149°F)
Height	30.5 cm (12")
Width	5.1 cm (2")
Depth	18.9 cm (7-7/16")
Weight	1.3 kg (2.9 lbs)