



## TS30 Specifications

Electrical	
Return Loss	>14 dB (ref 600 $\Omega$ )
Line Current Range	15 mA to 120 mA
Resistance to Continuous Current (Talk Mode)	275 $\Omega$ typical at 20 mA
Monitor Mode Impedance	>120,000 $\Omega$ 300 Hz to 3400 Hz
Pulse Dial Output	
Pulsing Rate	10 pps $\pm$ 1 pps
Open/Close Ratio	60/40
Inter-digit Interval	800 ms $\pm$ 20%, -10%
Resistance During Pulse Open	> 200,000 $\Omega$
Protection Against Alternating Current Overvoltage	The TS30 survives up to 250 Vrms across its test leads.
Peak Acoustic Output of the Receiver	<120 dBspl
DTMF Output	
Tone Frequencies	per ITU-T Q.23
Tone Frequency Error	$\pm$ 1.5% Maximum
Tone Level	
High Group	-4 dBm $\pm$ 2dB (into 600 $\Omega$ )
Low Group	-6 dBm $\pm$ 2dB (into 600 $\Omega$ )
High vs Low Tone Difference	2dB $\pm$ 1db
Last Number Redial (Tone/Pulse)	
Memory Capacity	23 digits
Memory Retention	8-minutes nominal
Flash Duration	600 ms $\pm$ 100 ms
Ringer Loudness	> 70 dBA at 1 meter
Ringer Equivalent (REN)	0.14

Physical	
Measurements	10 in x 2.83 in x 3.34 in (25.5 cm x 7.2 cm x 8.5 cm)
Weight	16.8 ounces (0.476 kg)
Environmental	
Temperature Operating	-4 °F to +140 °F (-20°C to +60°C)
Storage	-40 °F to +151 °F (-40°C to +66°C)
Relative Humidity	5% to 95%
Safety	
Telecom Electrical Safety Classification	TNV-3
IP54	
Regulatory Standards Used	
47 CFR Part 15, Subpart B ICES-003 Issue 3 AS/NZS 3548 EMC Directive 89/336/EEC, EN 55022:98, EN 61326:97, A1:98 Annex C, EN 61000-4-2, EN 61000-4-3 LV Directive 73/23/EEC, EN 610010.1 (1993)	
Certifications and Compliance	
 Conformité Européenne. Conforms to relevant European Union directives.  CAN/CSA-C22.2 No. 60950-1-03 CAN/CSA-C22.2 No. 1010.1-92 + CSA-C22.2 No. 1010.1B-97, UL/ANSI 3111-1	
Notes	
<i>Specifications subject to change without notice.</i>  <i>Legal requirements may exist regarding permission to connect equipment to a Telecom network operated by a public network operator.</i>	