## AFFORDABLE ANALOG TESTING IN A RUGGED, HAND-HELD PACKAGE.

## ATS 2 Enhanced Audio Test Set

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The ATS 2 is a full feature audio test set in a portable, hand-held package. The set facilitates the installation and maintenance of leased or dial-up circuits and equipment connected to the public switched networks. Designed to comply with IEEE and Bell specifications, the ATS 2 is capable of performing all basic analog transmission measurements plus Impulse Noise, Signal-to-Noise and P/AR tests. The ATS 2 can also function as a telephone handset on 2- and 4-wire circuits, with dial, hold, talk and listen capabilities.

- Menu driven
- Impulse Noise and Signal-to-Noise tests

Electrodata, Inc.

- DTMF or pulse dialing
- MF dialing optional
- Tests to IEEE and Bell specifications



## SPECIFICATIONS

## ATS 2 Enhanced Audio Test Set

SEND MODES					
QUIET TERMINATION		BACKGROUND NOISE		AUTODIAL	
	Signal generator disconnected from	Range:	10 to 99 dBm	Memory:	10 locations, each capable
	output	Resolution:	1 dB		of holding up to 16 digits
Output Noise	<-80 dBm	ACCURACY		Dial method:	DTMF or pulse with
SEND FREQUENCY		20 to 99 dBm:	±1 dB		optional MF
Range:	50 Hz to 5 kHz	10 to 20 dBm:	±2 dB	DTMF signals:	Full supervisory tone set,
Resolution:	1 Hz	Filters:	C-Message, 3 kHz flat,	GENERAL	including A,B,C, and D
Accuracy:	±0.03%		C-Notch	INPUT/OUTPUT	
Direct Entry:	Numeric keypad	Detector:	True RMS	Line:	2-wire or 4-wire
Stepping:	±1, 10 and 100 Hz	Display modes:	Absolute or relative with	Connectors:	RJ11C modular jack and dual
Fixed frequencies:	1004 Hz, 2713 Hz and		respect to input level		miniature phone jack (0.173"
•	programmable auxiliary tone	Notch filter:	995 to 1025 Hz >50 dB		diameter on 0.312" centers,
Slope tones:	404 Hz, 1004 Hz, and 2804 Hz		rejection		mates with ADC PJ777 or
•	10 seconds per tone	Loss of tone:	<-40 dBm		Swtchcraft TT253)
Auto step:	Programmable start, stop.	SIGNAL TO NOISE			150 volts
	step size and step duration	Signal range:	+10 dBm to -40 dBm	DC blocking	Reverse send and receive
P/AR signal	16 phase related frequencies	Noise range:	10 dBm to 90 dBm	Normal/Reverse switch:	Electronic, 24 ma.
Distortion	50 Hz to 200 Hz $< -45$ dB	Ratio range:	10 to 50 dB	Hold circuit:	600 or 900 ohms
Distortion.	200  Hz to 5 kHz <-50dB	Resolution:	1 dB	Impedance:	Bridge ot terminate
SE alvin	2450 Hz to 2750 Hz	Accuracy:	±1 dB	Termination:	< 0.2 dB
SENDLEVEL	2450 Hz to 2750 Hz	Detector:	Average for level and true	Bridging loss:	>30 dB
SEND LEVEL	10 dBrate 50 dBra		RMS for noise	Return loss:	> 80 dB at 60 Hz
Range:	±10 dBm to -50 dBm	Display modes:	Absolute or relative with	Longitudinal balance:	> 70 dB at 540 Hz
	(U dBm maximum for P/AR)	Display modesi	respect to current	Longitudinal balance.	> 60 dB at 4 kHz
Resolution:	0.1 dB		measurement		
ACCURACY		Notch filter:	995 to 1025 Hz >50 dB	POW/FR	
50 Hz TO 200 hz:	±0.5 dB	Noton Intern	rejection	Battorios	Rochargable
200 Hz TO 5 Khz:	±0.2 dB	Loss of topo	< -40  dBm	Battenes.	nickal aadmium
1004 Hz:	$\pm 0.1$ dB from 0 to -19 dBm			Pottony life	A bourg minimum por oborgo
Direct entry:	Numeric keypad		30to 100 dBm	Battery life.	o nours minimum per charge,
Stepping:	±0.1 and 1 dB	Inrestiou range.			one-han nour minimum alter
FLATNESS		Resolution:			battery low indication
50 Hz to 200 Hz:	±0.5 dB	Accuracy:	± I ub	Recharge time:	4 hours maximum with unit
200 Hz to 5 kHz:	±0.2 dB	Count rate:	1 to 00 minutes as continuous		
MEASURE MODES		Count timer:	1 to 99 minutes of continuous	AC operation:	115/230 vac, 50/60 Hz
LEVEL/FREQUENCY		Count range:		Auto shut-off:	15 minutes after last key
Level range:	+10 dBm to -65 dBm	Filters:	C-Message, 3 KHz flat,		depression
Resolution:	0.1 dB		C-Notch	PHYSICAL	
		Notch filter:	995 to 1025 Hz >50 dB	Push-to-talk:	Built-in condenser
ACCURACY			rejection		microphone
50 Hz to 200 Hz:	±0.5 dB	Loss of tone:	<-40 dBm	Monitor:	Adjustable volume,
200 Hz to 5 kHz:	±0.2 dB	Loss of tone counter:	0 to 9999		switchable between send
1004 Hz:	$\pm 0.1~\text{dB}$ from 0 to -19 dBm	P/AR RATING			and receive
Detector:	Averaging	Range:	0 to 120 P/AR	Display:	2 line by 16 character LCD
Display modes:	Absolute or relative with respect to	Resolution:	±1 PAR unit	DISPLAY UPDATE	
	input level	ACCURACY		Normal:	5 times per second
Frequency range:	20 Hz to 10 kHz	30 to 110:	±2 P/AR units	Damped:	2 times per second
Resolution:	1 Hz	0 to 120:	±4 P/AR units	Size:	10" L x 4" W x 2⁵/ଃ" H
Accuracy:	±1 Hz	Input level range:	0 to -40 dBm	Weight:	2¼ lbs (1 Kgram)
	~	Detector:	Average	<b>Operating temperature:</b>	$0^{\circ}$ C to $50^{\circ}$ C
		DIAL MODES		Storage temperature:	-20° C to 90° C
6	6 .	MANUAL DIAL		Humidity:	10% to 90% relative
		Dial method:	DTMF or pulse		humidity noncondensing
			with optional MF		
		DTMF signals:	Full supervisory tone set,		
0	and the second		including A,B,C, and D		
Aller		Redial:	Up tp last 16 digits		
1 Allen					
A A A	See 1				
000					
1000 A			_		
6.6.6.0			0		

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