ATS 2 Enhanced Audio Test Set



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			FS

QUIET TERMINATION Signal generator disconnected from output **Output Noise** <-80 dBm SEND FREQUENCY Range: 50 Hz to 5 kHz 1 Hz Resolution: Accuracy: +0.03% Numeric keypad Direct Entry: ±1. 10 and 100 Hz Stepping: Fixed frequencies: 1004 Hz, 2713 Hz and programmable auxiliary tone

> 404 Hz, 1004 Hz, and 2804 Hz Slope tones: 10 seconds per tone

Programmable start, stop, Auto step: step size and step duration

P/AR signal: 16 phase related frequencies 50 Hz to 200 Hz <-45 dB Distortion: 200 Hz to 5 kHz <-50dB

2450 Hz to 2750 Hz SF skip:

SEND LEVEL

Range: ±10 dBm to -50 dBm

(0 dBm maximum for P/AR)

Resolution: 0.1 dB

ACCURACY

50 Hz TO 200 hz: ±0.5 dB ±0.2 dB 200 Hz TO 5 Khz:

1004 Hz: ± 0.1 dB from 0 to -19 dBm

Direct entry: Numeric keypad ±0.1 and 1 dB Stepping:

FI ATNESS

50 Hz to 200 Hz: ±0.5 dB +0.2 dB 200 Hz to 5 kHz:

MEASURE MODES

LEVEL/FREQUENCY

+10 dBm to -65 dBm Level range:

0.1 dB Resolution:

ACCURACY

50 Hz to 200 Hz: ±0.5 dB ±0.2 dB 200 Hz to 5 kHz: 1004 Hz: ±0.1 dB from 0 to -19 dBm

Detector: Averaging

Display modes: Absolute or relative with respect to

input level

20 Hz to 10 kHz Frequency range:

Resolution: 1 Hz Accuracy: ±1 Hz BACKGROUND NOISE

ACCURACY

10 to 99 dBm Range: Resolution: 1 dB

 $\pm 1 dB$ 20 to 99 dBm: 10 to 20 dBm: $\pm 2 dB$

> C-Message, 3 kHz flat, Filters: C-Notch

True RMS Detector:

Absolute or relative with Display modes: respect to input level

Notch filter: 995 to 1025 Hz > 50 dB rejection

Loss of tone: <-40 dBm

SIGNAL TO NOISE

Signal range: + 10 dBm to -40 dBm 10 dBm to 90 dBm Noise range: 10 to 50 dB Ratio range: Resolution: 1 dB Accuracy: +1 dB **Detector:** Average for level and true

RMS for noise Absolute or relative with Display modes:

> respect to current measurement

995 to 1025 Hz > 50 dB Notch filter:

rejection

<-40 dBm Loss of tone:

IMPULSE NOISE

30to 100 dBm Threshold range: 1 dB Resolution:

±1 dB Accuracy: Count rate: 7 per second

Count timer: 1 to 99 minutes or continuous 0 to 9999 Count range:

C-Message, 3 kHz flat, Filters:

C-Notch 995 to 1025 Hz > 50 dB Notch filter:

rejection Loss of tone: <-40 dBm

Loss of tone counter: 0 to 9999 P/AR RATING

0 to 120 P/AR Range: Resolution: ±1 PAR unit

ACCURACY

 $\pm\,2$ P/AR units 30 to 110: 0 to 120: ±4 P/AR units 0 to -40 dBm Input level range: Detector: Average

DIAL MODES

MANUAL DIAL

DTMF or pulse Dial method: with optional MF

DTMF signals: Full supervisory tone set, including A,B,C, and D

> Redial: Up tp last 16 digits

AUTODIAL

10 locations, each capable Memory:

of holding up to 16 digits DTMF or pulse with

including A,B,C, and D

optional MF DTMF signals: Full supervisory tone set,

GENERAL

Dial method:

INPUT/OUTPUT Line: 2-wire or 4-wire

Connectors: RJ11C modular jack and dual

> miniature phone jack (0.173) diameter on 0.312" centers,

mates with ADC PJ777 or Swtchcraft TT253)

150 volts

DC blocking Reverse send and receive Normal/Reverse switch: Electronic, 24 ma.

Hold circuit: 600 or 900 ohms Bridge ot terminate Impedance: Termination: < 0.2 dB>30 dB Bridging loss:

Return loss: >80 dB at 60 Hz >70 dB at 540 Hz Longitudinal balance:

>60 dB at 4 kHz

POWER

Batteries: Rechargable

nickel-cadmium

Battery life: 6 hours minimum per charge,

one-half hour minimum after

battery low indication Recharge time:

4 hours maximum with unit

turned off

115/230 vac. 50/60 Hz AC operation:

Auto shut-off: 15 minutes after last key

depression

PHYSICAL

Push-to-talk: Built-in condenser microphone

Monitor: Adjustable volume. switchable between send

> and receive 2 line by 16 character LCD

Display:

DISPLAY UPDATE

Normal: 5 times per second Damped: 2 times per second Size: 10" L x 4" W x 25/8" H Weight: 21/4 lbs (1 Kgram) 0° C to 50° C

Operating temperature: -20° C to 90° C Storage temperature: **Humidity:** 10% to 90% relative

humidity noncondensing





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