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4. S P E C I F I C A T I O N

FREQUENCY

RANGE	150kHz-1GHz, 10MHz-1GHz with RF preamplifier.
SPAN	Zero, 100kHz to 1GHz in 1-3 sequence.
ENTRY METHOD	1. By direct entry from keyboard to a maximum resolution of 10kHz 2. By spin-wheel in tune mode with tune rate proportional to span
DISPLAY	Alphanumeric display indicates frequency at frequency cursor position. Tune mode centres frequency cursor if span allows, and tunes display frequency via spin-wheel. Frequency cursor mode holds span centre frequency and spin-wheel moves frequency cursor to display frequency at cursor position
CENTRE FREQUENCY DISPLAY ACCURACY	±1% of span ±10kHz in tune mode
CENTRE FREQUENCY DRIFT	±2ppm per year
FREQUENCY CURSOR MODE ACCURACY	±15% of span ±10kHz
RESOLUTION BANDWIDTH (RBW)	Selectable 1, 9, 120kHz, 2MHz nominal (-6dB) Shape factor 60dB/6dB ≤ 8:1 nominal.
VIDEO FILTER	Selectable on/off, nominal 0.033 of selected RBW. Not selectable on the 2MHz RBW range.
SCAN PERIOD	270msec minimum, dependent on span setting, resolution bandwidth and video filter selection.
NOISE SIDEBANDS	<-65dBc at 100kHz offset from carrier in a 9kHz resolution bandwidth.
CRT LINE SIDEBANDS	<-45dBc at 31.25kHz offset from carrier in a 1kHz resolution bandwidth.

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AMPLITUDE

SCREEN DYNAMIC RANGE	>70dB.
MEASUREMENT RANGE	-120dBm to +20dBm with 50Ω calibration. -65dBmV to +74dBmV with 75Ω calibration (option /H).
DISPLAY	Alphanumeric display. Resolution 1dB. Units: Select dBm, dBμV, dB relative, dBμV/m, dBmV (75Ω option /H).
MEASUREMENT MODE	1. Manual rotary control of level cursor anywhere on screen. 2. Auto position of level cursor to signal level at position of frequency cursor
ACCURACY	± 3dB after self-calibration (except on 1GHz span, 1kHz resolution bandwidth or RF pre-amplifier selected)
SPURIOUS RESPONSES	Residual responses with input attenuator at 0dB and no input signal <-86dBm from 1MHz to 1GHz, <-80dBm from 150kHz to 1MHz. 2nd harmonic and 3rd order intermodulation distortion >50dB below a -30dBm input signal with input attenuator at 0dB. For input frequencies F > 750MHz response at (F-750MHz) is <-40dBc with input attenuator at 0dB.
NOISE LEVEL	<-100dBm with input attenuator at 0dB and 9kHz RBW for input frequencies >2.5MHz. <-120dBm with pre-amp selected, 1kHz RBW, video filter on.

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INPUT

CONNECTOR	N type female. F type female, option /H
IMPEDANCE	50 ohms (±50V DC blocked). 75 ohms (±100V DC blocked), option /H
VSWR	<1.5:1 nominal with 10dB attenuation
EXCESS POWER PROTECTION	From >20dBm to <44dBm (except with pre-amplifier selected)
PRE-AMPLIFIER	20dB nominal, 10 to 1000MHz.
ATTENUATOR AND PRE-AMPLIFIER	50dB to 0dB in 6 steps of 10dB indicated by LED. 7th step sets nominal 10dB gain (pre-amp and 10dB LED illuminated). 8th step sets nominal 20dB gain (pre-amp LED illuminated).

CALIBRATOR

FREQUENCY	50MHz crystal
FUNDAMENTAL OUTPUT LEVEL	-20dBm ±1dB
CONNECTOR	N type female. F type female, option /H
OUTPUT IMPEDANCE	50 ohms nominal. 75 ohms nominal, option /H

AUDIO DEMODULATION

AUDIO OUTPUT	Internal speaker, 100mW maximum. Headphone socket 0.25".
SOURCE	Zero span, AM/FM demodulation.
AUDIO BANDWIDTH	300Hz to 3kHz.
FREQUENCY DEVIATION	7.5kHz/75kHz maximum switchable, selected by # function (#31,#30)

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DISPLAYS

CRT	9.5 x 7cm P31 phosphor. Raster 448 lines refreshed at 61Hz.
CRT DISPLAY ELEMENTS	Frequency and level cursors. Video. Selectable hold, peak hold, peak step on video amplitude.
GRATICULE	Electronically generated graticule selected by # function (#21,#20).
LED DISPLAY	24 character 5 x 7 alphanumeric display. Displays frequency, amplitude, warning, error messages and special functions.

GENERAL

PANEL SETUPS	Up to nine front panel setups may be stored in non-volatile memory. A further four front panel setups may be stored together with CRT display data.
PLOTTER	Built-in plotter activated by single key press. Dumps CRT display and major instrument states. User titles can be input from keyboard and stored. Printing medium: ball point pens. Four colours selectable: black, blue, green and red. One set supplied. Paper: 114.5mm wide roll. One supplied
CALIBRATOR	Self calibration routine for displayed amplitude. Displayed message for failure of routine.
AUXILIARY FEATURES	+12V (100mA max) front panel output, for powering external probes etc. TV video output.
REMOTE PROGRAMMING	GPIB (IEEE 488.2). Functions supported: SH1, AH1, T6, TE0, L4, LE0, SR1, RL1, PP0, DC1, DT0, C0, E2.

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POWER REQUIREMENT

AC INPUT	100, 120, 220, 240VAC ±10%, 45 to 440Hz
DC INPUT	11.5 to 15VDC.
CONSUMPTION	40VA approximately.
RECHARGEABLE BATTERY	This optional accessory fits inside unit. Not useable with option /A (23-30VDC). Front panel charge/on switch. Battery low indication on alphanumeric display. Audible warning after 10 minutes battery operation.

ENVIRONMENTAL

OPERATING TEMPERATURE	0°C to +55°C. (Internal plotter and optional battery pack 0°C to +40°C)
STORAGE TEMPERATURE	-40°C to +70°C.
RELATIVE HUMIDITY	95% to 40°C non-condensing.
VIBRATION	5 to 150Hz at 2G sinusoidal, 15 minutes in each of 3 orthogonal planes.
SHOCK	10 off 25mm drops on each of 6 faces.
SAFETY	Designed to meet the requirements of IEC publication 348 (BS4743).
EMC	Designed to meet European standards EN 50 081-1 (generic emission) and EN 50 082-1 (generic immunity)

MECHANICAL
(Approximate information)

HEIGHT (including feet)	190mm.
WIDTH	326mm.
DEPTH (including handles)	525mm.
WEIGHT	14kg. 15.5kg with battery option

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