

## TECHNICAL DATA SUMMARY

Input impedance	:	$50\Omega \pm 10\%$ at the tuned frequency with 10dB or more attenuation being used.
Measurement range	:	(equivalent sinewave p. d. input) 0dB $\mu$ V to 100dB $\mu$ V with use of 'IF +20dB' facility. An extra + 5dB range at any point is obtainable using the meter, but with a slight reduction in accuracy (0.5dB).
Detector output	:	$\geq +150\text{mV D.C.}$ at 'SET CAL' reading on meter (output across 10M $\Omega$ load). Output is proportional to quasi-peak rectifier output voltage.
IF Output	:	$\geq 50\text{mV p. to p. emf}$ with a sinewave input giving 'SET CAL' on meter.
IF Frequency	:	1.75MHz.
External power supply input	:	+8.0 to +10.5V DC for optimum operation (n.b. this input is diode protected against accidental reversal of polarity).
Weight	:	= 10kg total package (approx).
Dimensions	:	WIDTH : 385mm including handle. HEIGHT : 161mm including feet. DEPTH : 358mm including feet.
Bandwidth	:	9kHz $\pm$ 1kHz.
Bandwidth at 60dB	:	36kHz maximum.
Electrical charge time constant of rectifier circuit	:	approx 1mS.
Electrical discharge time constant of rectifier circuit	:	approx 160mS.
Mechanical time constant of critically damped meter (to 35% of steady deflection)	:	approx 160mS.
IF and image rejection (150kHz - 30MHz)	:	better than 40dB.
Spurious response rejection	:	better than 40dB.
Accuracy of sinewave voltage measurement	:	Within $\pm 2\text{dB}$ (at 'SET CAL' mark on meter).

Screening	:	With the receiver in a RF field 80dB $\mu$ V/M in frequency range 130kHz - 32MHz, the indication on the meter shall not exceed 'SET CAL' after calibration.
Internal noise	:	Does not exceed -5dB point on meter after calibration.
Pulse response ('CISPR' selected).	:	Between 150kHz and 30MHz after calibration.

n.b. When 'LONG' is selected the variation in response at low prfs is widened by a few dB.

PRF (Hz)	Relative equivalent level of pulse for 'SET CAL' on meter (dB).
1000	-4.5 $\pm$ 1.0
100 (ref)	0 (ZERO)
20	+6.5 $\pm$ 1.0
10	+ 10 $\pm$ 1.5
2	+20.5 $\pm$ 2.0
1	+22.5 $\pm$ 2.0
Isolated pulse	+23.5 + 2.0/ -3.0

Frequency calibration	:	Within $\pm$ 2%.
Audio Output	:	At least 100mW into an 8 $\Omega$ load at the front panel phone jack.
Environmental	:	Equipment meets DEF 135 for category III equipment. Operating temperature - range -5°C to +55°C RH not exceeding 30% and 0°C to 40°C, RH not less than 95% at +40°C.