## AF Power Meter



Z Ten power ranges: $300 \mu W$ to 10 W full scale
$\square$ Frequency range: 20 Hz to 35 kHz
$\square$ Impedance: $2 \cdot 5 \Omega$ to $20 \mathrm{k} \Omega$ in 48 steps

## Balanced or unbalanced inputs <br> $\sqsupset$ Direct calibration in watts and dBm Version available with SINAD filter

AF Power Meter 8938 covers the wide power range of $300 \mu \mathrm{~W}$ to 10 W full scale in ten ranges, and operates over the frequency range of 20 Hz to 35 kHz .

Power delivered by the source into a load provided by the power meter is measured by a temperature-compensated multi-range detector circuit feeding a voltmeter. Ten power range push-buttons are marked in voltage and in dBm , and the meter is calibrated with voltage scales marked from 0 to 3 and from 1 to 10 , providing good resolution, and also with a dBm scale.

The required input impedance is obtained by means of a tapped transformer and switched resistive matching pads, providing 48 impedances between $2.5 \Omega$ and $20 \mathrm{k} \Omega$. Unbalanced inputs are provided by connecting across the two input terminals, and balanced inputs by connecting the centre tap of the source to the CT terminal.

Impedance of one quarter of the marked value (i.e. down to $0.625 \Omega$ ) can be obtained by connecting the source between one input terminal and the CT terminal. Impedance is selected by means of two controls with colour coded panel markings, a six position IMPEDANCE SELECTOR and an eight-position IMPEDANCE RANGE MULTIPLIER.

A SINAD version of the power meter incorporates a switchable 1 kHz filter for making signal-to-noise measurements by comparison of two power level readings. An initial reading is taken with the filter switched out and a second reading with it switched in to remove the 1 kHz fundamental. The difference between readings on the dBm scale gives the SINAD ratio. The standard version of 893B can be converted for SINAD measurement by fitting a filter kit which is available as an optional accessory.

MODEL 50893-920M


