



# FERRANTI

## AUDIO FREQUENCY TRANSFORMER

### TYPE AFS

Ratio 1/3.5

Dimensions:  $3\frac{3}{8}'' \times 2\frac{3}{16}'' \times 2\frac{9}{16}''$ .

Weight:  $15\frac{1}{2}$  ozs.

Inductance: 20/45 Henries.

This Transformer has been designed and produced by Ferranti Ltd., in order to meet the needs of the large number of Radio enthusiasts who require good results at a very low price.

**Price 11/6d Nett** (*in Great Britain only.*)

Price in Irish Free State 13/6d.

The performance of this Transformer is better than that of any other Transformer at or below it in price and it is surpassed only by Transformers selling at list prices 50% greater and upwards.

It incorporates the well known FERRANTI patented air spaced sectionalised windings and its mechanical construction is in no way inferior to the standard that is expected of all FERRANTI products the world over. Special high grade iron specially selected for its suitability for the purpose, is employed; no nickel iron or similar material being used in the construction of this Transformer.

Its amplification curve is good, particularly at the higher audio frequencies up to 8,000 cycles which are hardly reproduced by many makes of Transformer, the characteristic rising somewhat to compensate for the loss of the higher frequencies in the tuning. The cutoff at 50 cycles is approximately 50% but the curve may be made horizontal down to this frequency by the use of the resistance condenser feed system employing a 30,000 ohm resistance with a 2 mfd condenser.

The AF8 Transformer may be used following any good make of Valve having an impedance preferably not greater than 12,000 ohms and consuming not more than 4 milliamps.

This Transformer is provided with a well finished bakelite case with substantial terminals, and no condenser is included across the primary. When using this Transformer in circuits where reaction is not obtained by means of a differential reaction condenser, such as in the latest FERRANTI constructional Receivers, a fixed condenser of .0003 mfd capacity must be connected across the Transformer primary to ensure the best detection. This requirement applies of course to all other makes of Transformer.

The AF8 Transformer is suitable for use in both first and second stages of any Radio Receiver of good design. If it is used in conjunction with any other FERRANTI Audio Transformer, the AF8 should be placed in the second stage.

#### VOLUME CONTROL :

Where this is necessary it should be carried out by means of a variable high resistance having a total value of about 100,000 ohms connected across the primary of the first Audio Transformer. It is an ideal Transformer for Set manufacturers, its small size rendering it specially suitable where space is a consideration as in Portable Receivers, and it is used by many leading Set manufacturers who consider performance and freedom from breakdown as first essentials of their Receivers.

Constructional charts for the building of Sets employing FERRANTI components are available and will be sent free of charge, on request.

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