

INSTRUCTION MANUAL

Type GDO1
GRID-DIP OSCILLATOR



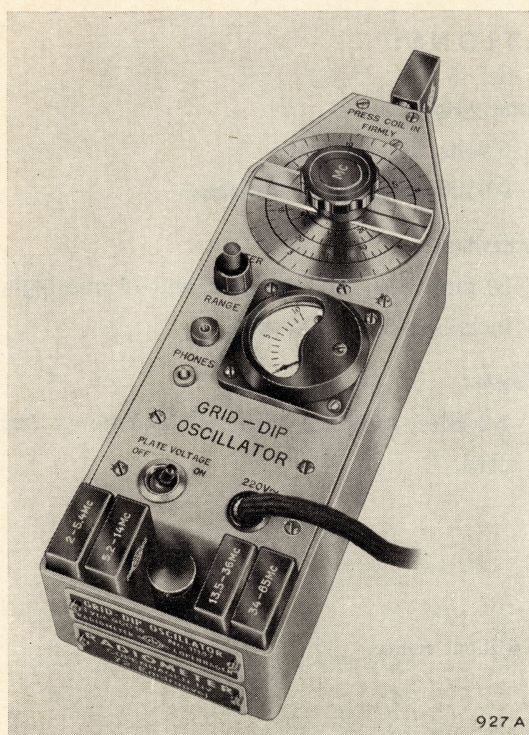
RADIOMETER

ELECTRONIC MEASURING INSTRUMENTS
FOR SCIENTIFIC AND INDUSTRIAL USE

INSTRUCTION AND OPERATING MANUAL
FOR

Type GDO1
GRID-DIP OSCILLATOR

These instructions apply to
type GDO1 instruments only



Grid-Dip Oscillator type GDO 1

Description

This instrument is essentially an RF oscillator with a meter indicating the oscillator grid current. The coil of the oscillator circuit is of the plug-in type, and the coil terminals are so arranged that inductive coupling from the oscillator to the circuit under test is readily obtained.

When the grid-dip oscillator is coupled to a self-resonant circuit and tuned to resonance, there will be a dip in the grid current indication due to power absorption in the self-resonant circuit.

Headphones can be plugged into the oscillator circuit, and the instrument can be used as a heterodyne frequency meter.

The plate voltage of the oscillator can be switched off separately, leaving the filament voltage on and the oscillator tube functioning as a diode. The instrument can then be used as an ordinary absorption frequency meter.

When used as a signal generator, the oscillator can be modulated from an external source.

When no line voltage is available, batteries can be connected to the instrument through a special connector.

Space is provided for storing plug-in coils not in use.

The wide frequency range and very small dimensions of this instrument make it a most usable and handy instrument for rapid checks in the laboratory or in the field.

Typical applications:

For determining the resonant frequency of tuned circuits, filters, transmission networks, antennas, chokes and by-pass condensers.

For preliminary alignment of tuned circuits in receivers and transmitters.

For locating parasitic circuits and spurious resonances.

As a signal generator or frequency meter.

SPECIFICATIONS:

Frequency ranges:

2 — 5.4 megacycles	
5.2— 14	—
13.5— 36	—
34 — 85	—
80 —220	—

Frequency accuracy:

Better than $\pm 2\%$.

Power supply:

110 or 220 volts, 50-60 cycles or as specified in order.

Consumption: 6 watts.

Battery supply:

6 volts, d-c, 0.2 amp.

90-120 volts, d-c, 6 milliamps.

Dimensions:

80 mm wide, 265 mm long, and 75 mm high, including knobs and coils.

Weight:

1.2 kilos, complete with coils and power line cord.

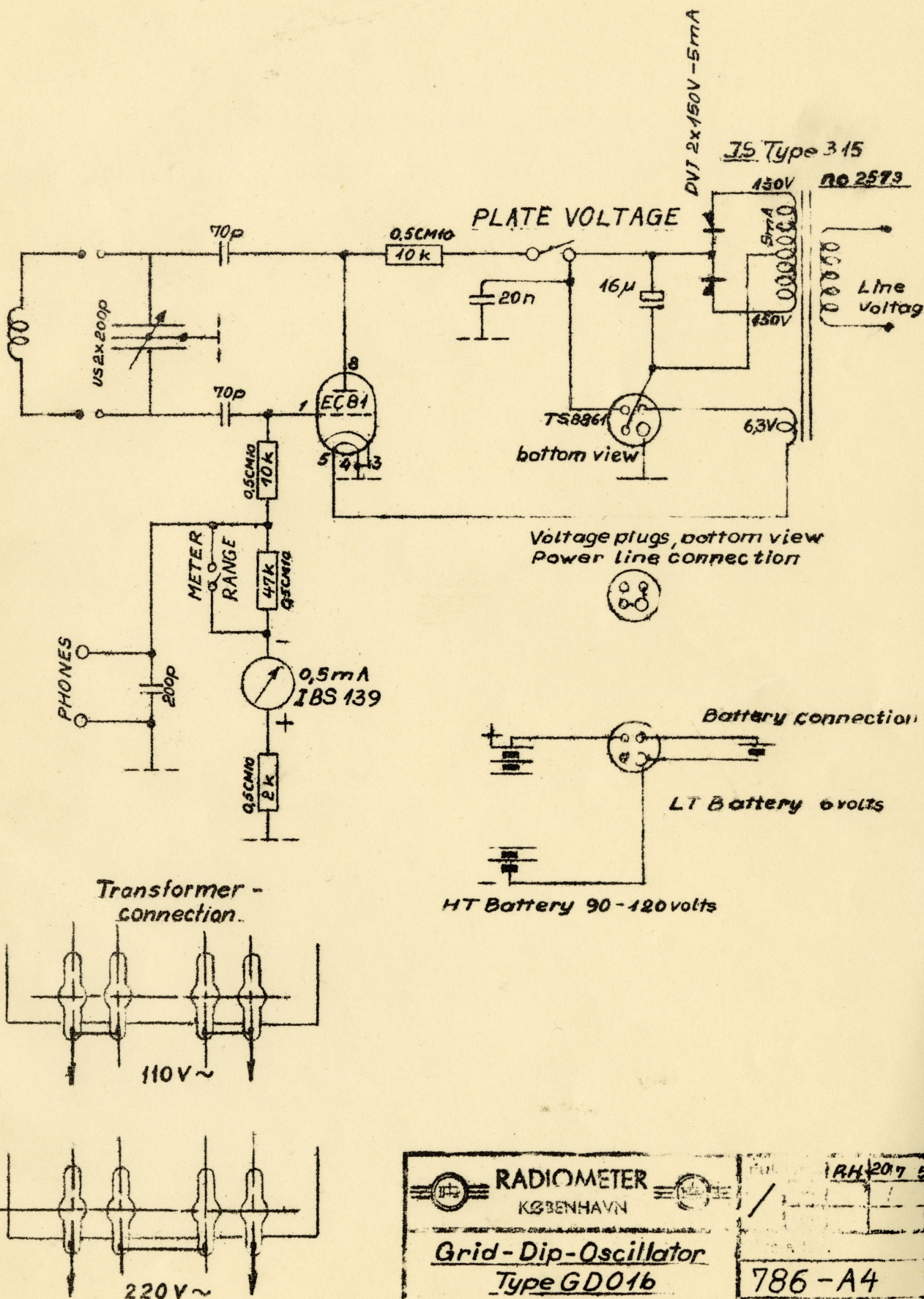
Data subject to change without notice.



Coil No	1	Range	2-5.2 Mc.
"	"	2	" 5.0-14 "
"	"	3	" 13.5-36 "
"	"	4	" 35-85 "
"	"	5	" 80-220 "

RADIOMETER
COPENHAGEN

This drawing must not be passed on to any person not authorized by us to receive it, nor be copied or otherwise made use of by such person without our authority



RADIOMETER
KØBENHAVN

Grid-Dip-Oscillator
Type GD01b

Diagram from no 11134

1AH 207

786-A4