

# INSTRUCTION MANUAL

Type GDO1  
GRID-DIP OSCILLATOR



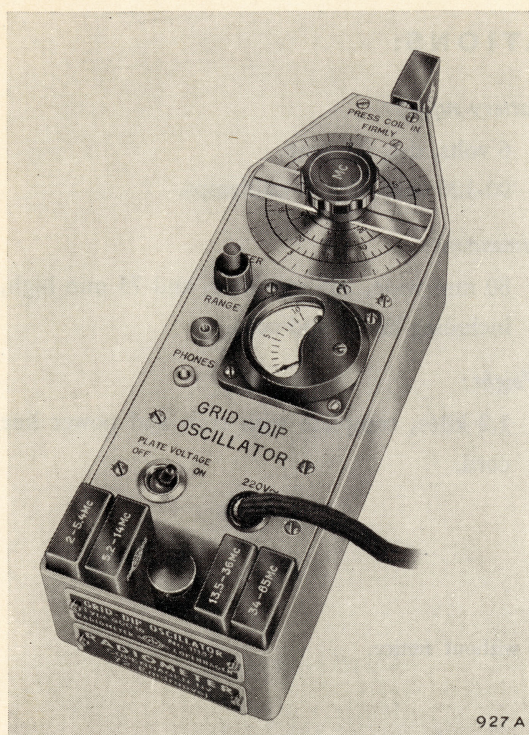
# RADIOMETER

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.

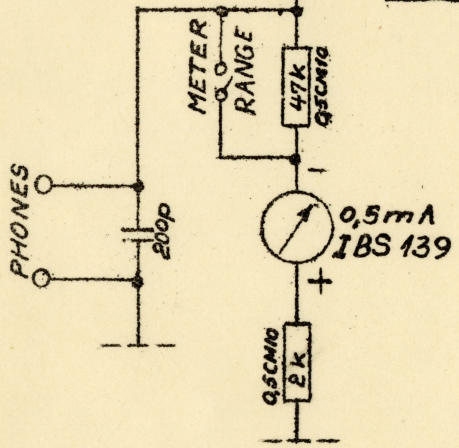
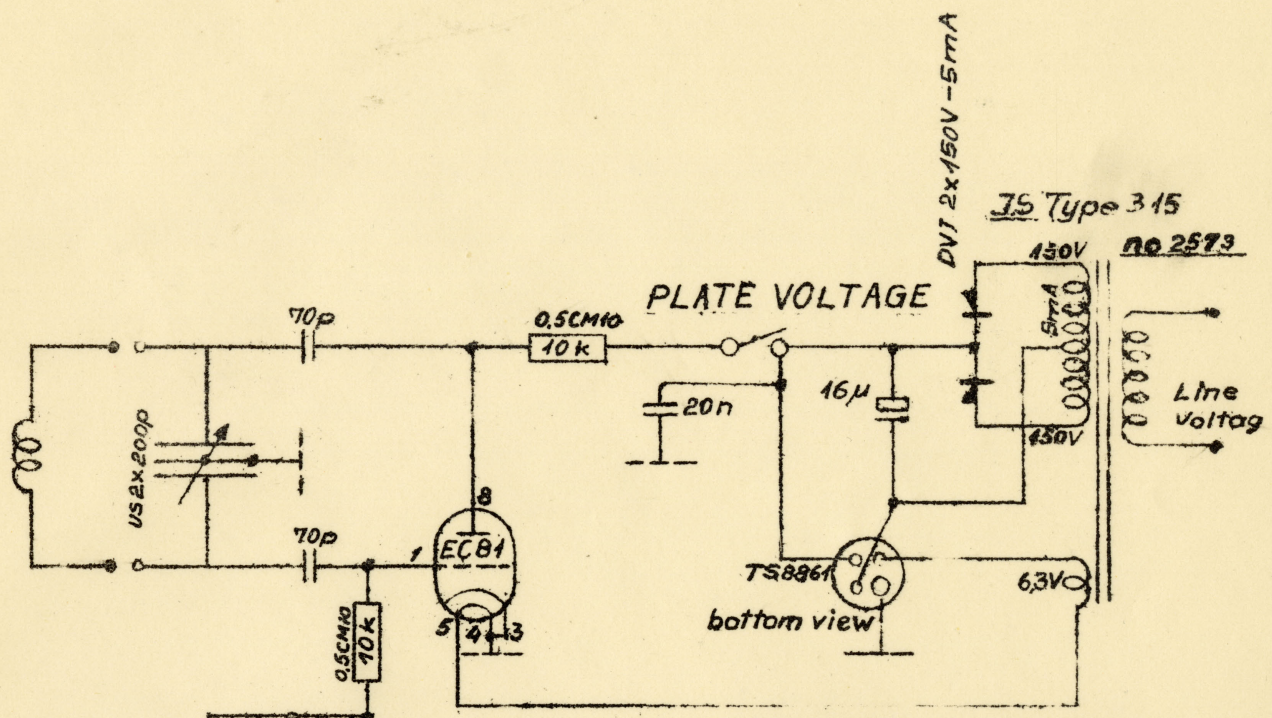
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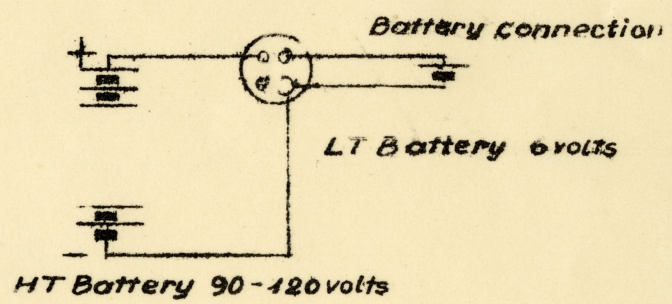
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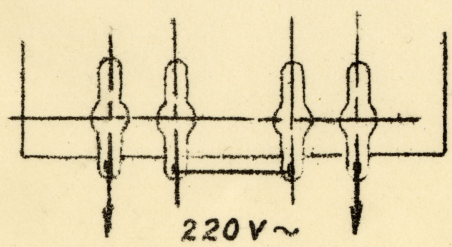
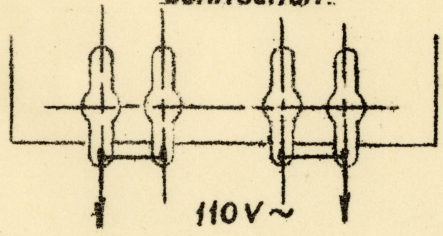
Coil No	1	Range	2-5.2 Mc.
"	2	"	5.0-14 "
"	3	"	13.5-36 "
"	4	"	35-85 "
"	5	"	80-220 "



Voltage plugs, bottom view  
Power line connection



Transformer - connection.



<b>RADIOMETER</b> KØBENHAVN	RAH 2017 5
<b>Grid-Dip-Oscillator</b> Type GD01b	786-A4
Diagram from no 11134	Per tall. af