

# TYPE 120-D FIELD INTENSITY METER

- COMPACT
- LIGHTWEIGHT
- DIRECT READING

## DESCRIPTION

The Type 120-D Field Intensity Meter (formerly known as the WX-2D) is a compact, light-weight portable instrument for the measurement of a wide range of radio signal intensities in the broadcast band of 540 to 1600 kilocycles. Its range of sensitivity from 10 microvolts per meter to 10 volts per meter, makes it equally effective for interference studies at low signal strengths and for close-in measurements on high-power directional arrays.

Because of the high selectivity considered necessary in a modern field intensity meter, the overall bandwidth of the 120-D is approximately 7 kc at 1000 kc with one-half voltage response. Image response is approximately 80 db down at all frequencies, and i-f rejection is approximately 80 db down at all frequencies above 600 kc and 75 db at 540 kc.

Accuracy of measurement is assured by a calibration method that compensates for variations in tube characteristics and for voltage variations in the self-contained battery power supply. Operation is simple and measurements can be made rapidly, for the meter is direct reading on all ranges and requires the use of no charts or multi-



plication factors. Since tubes are of the filament type, no warm up period is necessary before taking readings.

The added feature of providing both linear and logarithmic indications permits its use with recording equipment for continuous observations. An external amplifier, not supplied, is required to drive a recorder. Provisions are made for the use of an external power supply when conditions require continual operation.

NEMS  CLARKE, INC.

ENGINEERING • DEVELOPMENT • MANUFACTURING

518 JESUP-BLAIR DRIVE • SILVER SPRING, MARYLAND

JUNIPER 5-8300

**SPECIFICATIONS FOR  
TYPE 120-D FIELD INTENSITY METER**

Frequency Range.....	540 to 1600 kc
Field Intensity Range.....	50 microvolts per meter to 10 volts per meter
Accuracy of Attenuators.....	2%
Output Indicator.....	Panel meter, direct reading, with logarithmic scale graduated 1 to 10 and <b>HAVING NO ZERO MARK</b> (needle is <b>OFF SCALE</b> when meter is not energized). Provision for using recorder. Headphones, high-impedance (not supplied).
Antenna.....	Shielded, unbalanced loop
Power Requirements.....	Batteries, 5—1 1/2 -volt, 2—67 1/2 -volt Provisions for external power supply
Battery Life.....	500 indications (approx.)
Electron Tube Complement.....	4 — RCA-1T4 2 — RCA-1R5
Overall Dimensions, closed.....	Height 9", width 12", depth 5 3/4"
Weight, including batteries.....	12 1/2 pounds

**PRICE\* . . . \$750.00**

*State and Local Taxes, If Applicable, Extra*

Batteries not included — may be obtained locally

F.O.B. Silver Spring, Md.

\* Subject to change without notice