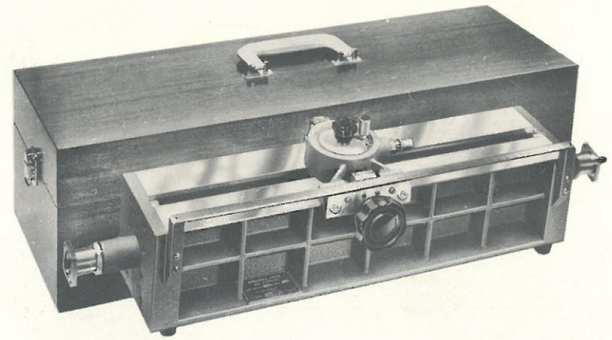
COAXIAL SLOTTED LINES

425 to 4,000 mc. parallel plane type

narda



Model 230N—Type N • Model 230C—Type C • Model 230⅞—⅞ Coax • Model 230⅝—⅝ Coax
Model 230SC—Type SC • Model 230TNC—Type TNC • Model 230LT—Type LT

Parallel plane line

These slotted lines make use of the parallel plane transmission line which provides increased accuracy and ruggedness and minimizes the effects of leakage and variations in probe depth. End connectors are male and female.

Bilateral Use: The connectors on both ends of the instrument are matched and compensated for use with load connected to either end of the instrument. The connectors are matched by a taper section, broad band undercut bead support, and inductive notch to cancel the capacitive discontinuity at the junction of the coaxial connector and the parallel plane line. The effect of this matching section is a low pass filter with high cutoff frequency and essentially constant impedance.

Cables and Connectors: With the Type N Model, all standard Type N cables and 3/8" rigid lines may be used including RG-8/U, RG-9/U, RG-10/U, RG-14/U, RG-17/U, RG-18/U, RG-21/U, UG-21B/U, UG-23B/U, and all Standard Type "N" male and female connectors.

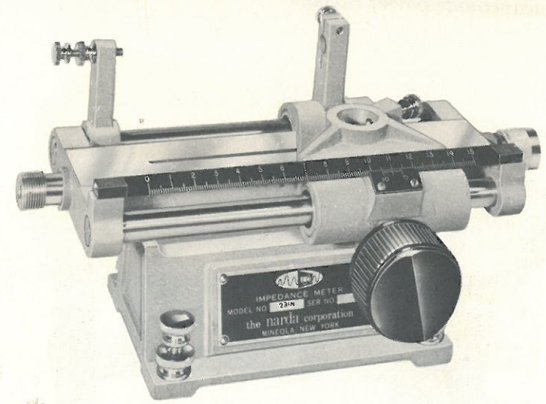
Specifications

Frequency Range	425 to 4000 mc.
Residual VSWR	Under 1.04
Detectors	1N21B, 1N23 Crystals N610-B Bolometer
Controls	Carriage drive, probe depth and tuner
Accessories	Carrying case and 1N21B crystal included
Calibration	Metric-calibrated in centimeters and millimeters. Vernier may be read to 0.1 mm.
Slope	Negligible
Size	24 x 7 x 8¼ inches (case) 30½ x 10 x 10
Weight	18 lb. (case) 12 lb.
Connectors	Input—female—see table Output—male—see table

CONNECTOR TYPE	NARDA MODEL	IMPEDANCE	PRICE
N	230N	50 OHMS	$575.
C	230C	50 OHMS	575.
5/8	230⅝	48.5 OHMS	575.
7/8	230⅞	46 OHMS	575.
SC	230SC	50 OHMS	650.
TNC	230TNC	50 OHMS	675.
LT	230LT	50 OHMS	750.

COAXIAL IMPEDANCE METERS

1,500 to 12,400 mc



The NARDA coaxial Impedance Meters are designed and manufactured to provide accuracy and dependability superior or equal to the most expensive custom-built impedance meters. The carriage mounting and drive mechanism are integral with the precisely machined coaxial transmission line casting. This construction insures permanent accuracy and freedom from slope errors without tedious adjustment or possibility of misalignment.

The carriage is provided with permanently lubricated, dust-sealed ball bushings riding on precisely ground stainless shafts providing firm symmetrical support and smooth action over the entire travel. The scale and vernier are angle mounted for optimum visibility. The adjustable height supporting pedestal is readily removable without detracting from the utility of the instrument.

Specifications

Dial Indicator	Provision for mounting dial indicator gauge for precise phase measurements—see Dial Indicator Model 218-313, page 46.
Slope	Imperceptible (less than .01)
Probe	Use with any standard commercial or military probe (3/4 dia. mounting) NARDA Model 229 recommended
Leveling	4 knurled screws and lock nuts
Calibration	Direct Reading Vernier to 0.1 mm

Coaxial impedance meters

FREQUENCY (kmc)	CONNECTORS (One Male, One Female)	NARDA Model	CHARACTERISTIC IMPEDANCE	RESIDUAL VSWR	LENGTH (in.)	PROBE TRAVEL (cm)	PRICE
1.5 to 12.4	Series N	231N	50 ohms	1.04 1.5- 8.0 kmc 1.06 8.0-10 kmc 1.1 10-12.4 kmc	9 13/16	10	$360.
1.5 to 12.4	Series C	231C	50 ohms		9 13/16	10	425.
1.5 to 12.4	Series TNC	231TNC	50 ohms	1.06 1.5- 5.0 kmc 1.12 5.0-12.4 kmc	9 13/16	10	490.