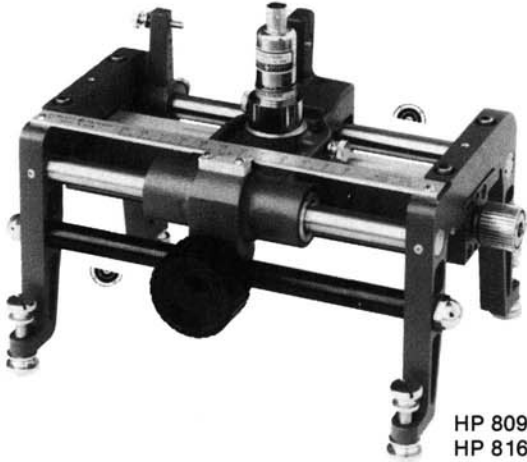


MICROWAVE TEST EQUIPMENT

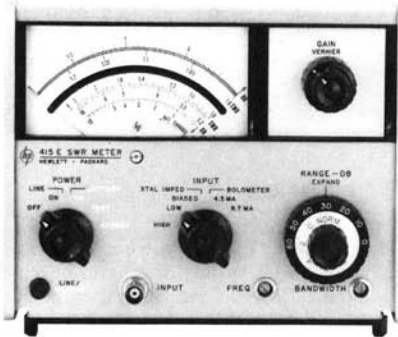
Slotted Lines, Carriage, Probes, SWR Meter

Models 415E, 442B, 447B, 809C, 816A

Test Equipment Depot www.testequipmentdepot.com
 99 Washington Street 800-517-8431
 Melrose, MA 02176-6024 781-665-0780 FAX



HP 809C
HP 816A Opt 011



HP 415E



HP 442B



HP 447B

HP 415E SWR Meter

HP 415E SWR Meter is a low noise, 1000 Hz tuned amplifier and voltmeter, calibrated in dB and SWR. Designed for use with square law detectors, it measures SWR, attenuation, and gain directly from metered scales, or drives an X-Y recorder for RF substitution measurements. Front panel INPUT switch selects unbiased low (50-200 Ω) or high (2500-10,000 Ω) impedance crystal, biased crystal (1 V into 1 k Ω), or low or high current bolometer (4.5 or 8.7 mA \pm 3% into 200 Ω).

An internal precision 60 dB attenuator allows the HP 415E to operate over a 70 dB range in 10 or 2 dB steps, with \pm 0.05 dB accuracy for a 10 dB step; maximum cumulative error between any two 10 dB steps is \pm 0.1 dB. Sensitivity is 0.15 μ V rms for full scale deflection at maximum bandwidth (1 μ V rms on high impedance crystal input).

Continuously adjustable bandwidth can be adjusted from 15 Hz for maximum sensitivity at CW frequencies to 130 Hz for swept frequency uses. An optional rechargeable battery pack provides up to 36 hours of continuous operation for portable use.

Weight: Net 4 kg (9 lb); shipping 5.8 kg (13 lb).

Power: 115-230 V \pm 10%, 50-400 Hz, 1 VA.

Dimensions: 155Hx190Wx279mm D(6³/₃₂x7²⁵/₃₂x11in.)

HP 809C Slotted Line Carriage

The HP 809C carriage operates with the HP 816A coaxial slotted section. It is compatible with the HP 442B, and 447B coaxial probes. The carriage has a centimeter scale with a vernier reading to 0.1 mm, and provision is also made for mounting a dial gauge if more accurate probe position reading is required.

HP 816A Slotted Section

The HP 816A coaxial slotted section is used with the HP 809C carriage. The HP 816A coaxial line accepts the HP 447B probe.

HP 816A Specifications

HP Model	Frequency Range (GHz)	SWR Residual	WG & Flange or Coax Conn.	Remarks	Price
816A	1.8-18.0	1.02-1.04 (APC-7)	Coaxial APC-7 N(f)	11512A N (m) Short 11565A APC-7 Short furnished. Use with	\$1070
Opt 011			Both APC-7	HP 809C Carriage HP 447B Probe	Add \$25
Opt 022		1.04-1.06 N(f)	N(m), N(f)		Less \$15

HP 442B, 447B Probes/Adapters

The HP 442B fits the HP 809C carriage and provides sampled RF at a Type N jack.

HP 447B is similarly used with the HP 809C and the HP 816A coaxial section for 1.8 to 18 GHz.

Ordering Information

	Price
HP 442B RF probe	\$300
HP 447B Detector probe	\$415
HP 809C Slotted line carriage	\$980
HP 415E SWR Meter	\$2105
Opt 001: rechargeable battery installed	add \$105
Opt 002: rear panel input connector	add \$25