

Description

HP model 428B Clip-On Milliammeter measures direct current without interrupting your measured circuit or producing loading errors. DC current is measured by utilizing a clip-on transducer that converts the magnetic field around the conductor to an ac voltage proportional to dc current. This voltage is detected and displayed as direct current. Since no contact is made to the circuit, complete dc isolation is ensured.

Low frequency currents up to 400 Hz can also be measured by connecting an oscilloscope or voltmeter to the front panel output.

Specifications

DC current range: 1 mA to 10 A full scale, nine ranges.

Accuracy: ±3% of full scale ±0.15 mA, from 0°C to 55°C (when instrument is calibrated to probe).

Output: variable linear output level with switch position for calibrated 1 V into open circuit (corresponds to full scale deflection).

Frequency Range: dc to 400 Hz (3 dB point). **Power:** 115 or 230 V $\pm 10\%$, 48 to 440 Hz, 71 W.

Probe insulation: 300 V maximum.

Probe tip size: ≈0.5 in. (12.7 mm) by 0.66 in. (16.67 mm) aperture diameter 0.16 in. (3.97 mm).

Size: cabinet, 292 H x 191 W x 368 mm D (11.5" x 7.5" x 14.5"). Weight: net, 8.6 kg (17 lb); shipping, 10.9 kg (24 lb).

Accessories Available

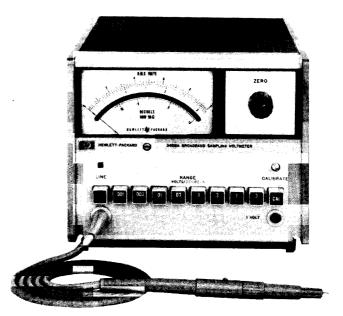
HP 3529A Magnetometer Probe: this probe measures magnetic field strength and direction. The component of magnetic field sensed is parallel to the cylindrical axis of the probe.

Range: 1 mG to 10 G full scale, nine ranges. 1 mG = 1 mA conversion factor.

Accuracy: ±3% of full scale (0°C to +55°C) after calibration.

Frequency Range: dc to 80 Hz (3 dB point). Weight: net, 0.45 kg (1 lb); shipping, 0.91 kg (2 lb).

Ordering Information Price HP 428B Analog Milliammeter \$2175 HP 3529A Magnetometer Probe \$270



HP 3406A

Description

The HP model 3406A RF Voltmeter employs sampling techniques to achieve an extremely high bandwidth (10 kHz to 1.2 GHz) with high input impedance. Signals as small as 50 µV can be resolved. Accessory probe tips enable the use of the HP 3406A in applications such as receivers, amplifiers and coaxial transmission lines.

Specifications

Voltage range: 1 mV to 3 V full scale in 8 ranges; decibels from -50 to +20 dBm (0 dBm = 1 mW into 50 Ω); average-responding instrument calibrated to rms value of sine wave.

Frequency range: 10 kHz to 1.2 GHz; useful sensitivity from 1 kHz to beyond 2 GHz.

Full-Scale Accuracy (%) with appropriate accessory (after probe is properly calibrated)

10 kHz		10 Hz			100 kHz		100 7 MHz N) Gi	l 1.2 Hz GH:	
	±13	±8	±5		±3		±5		±8	±13	

Sample Hold Output

Provides ac signal whose unclamped portion has statistics that are narrowly distributed about the statistics of the input, inverted in sign (operating into >200 k Ω load with <1000 pF). Output is 0.316 V at f.s. on any range.

Meter scales: linear voltage, 0 to 1 and 0 to 3; decibel, -12 to +3. Individually calibrated taut-band meter.

DC recorder output: adjustable from 0 to 1.2 mA into 1000 ohms at full scale, proportional to meter deflection.

Power: $115V \pm 10\%$, 48-440 Hz; $230V \pm 10\%$, 48-66 Hz; 25 VA max.

Size: 159 mm H (without removable feet), x 197 mm W x 279 mm D (6.25" x 7.75" x 11"); ½ module.

Weight: net, 5.4 kg (12 lb); shipping, 6.8 kg (15 lb).

Accessories: refer to data sheet.

Ordering Information	Price
HP 3406A RF Voltmeter	\$2970