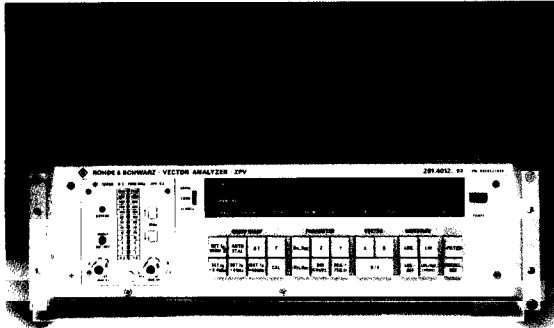


VECTOR ANALYZER

Model ZPV 10 Hz to 2 GHz

- Dual-channel vector voltmeter
- Display linear or log, cartesian or polar, absolute or relative
- Ranging automatic or manual
- Software packages available for ATE applications



Model ZPV

Model ZPV is designed for critical applications in control engineering and for crystal, antenna, amplifier, and filter measurements. Three plug-in tuners and appropriate accessories optimize performance by frequency range and test methods. Measurements include amplitude and phase, y- and z- parameters, s- parameters, group delay, reflection coefficient, and impedance.

ABRIDGED SPECIFICATIONS

ZPV with Tuner ZPV-E1

ZPV-E1 features a wide dynamic range and is useful both at low frequencies, for measuring control loops and acoustic signals, and at high frequencies for video, group-delay, and impedance measurements. Two high impedance inputs accept probes, attenuators, or insertion adapters for 50 coaxial systems

FREQUENCIES	10 Hz - 50 MHz
Dual-inputs	
Impedance	1 M Ω and 17 pF
Sensitivity	5 μ V, 30 Hz - 50 kHz 1 μ V, 50 kHz - 25 MHz 3 μ V, >25 MHz
VOLTAGE ACCURACY	0.15 dB typ
VOLTAGE RATIO	
Range	-110 to +110 dB
Accuracy	\pm 1.5% typ
PHASE	
Range	-180° to +180°
Accuracy (see Note)	0.1°

ZPV with Tuner ZPV-E2

ZPV-E2 covers higher frequencies than the ZPV-E1. With two high impedance probes, it can be used to measure voltages in both matched and unmatched systems. Directional couplers are also available.

FREQUENCY	0.1-1000 MHz
DUAL-INPUTS	
Impedance	50 k Ω and 2 pF, 6 M Ω and 2 pF with 100:1 attenuator
Sensitivity	
Channel A	1200 μ V (typ 400 μ V), <1 MHz 400 μ V (typ 150 μ V), >1 MHz
Channel B	3 μ V (typ 1 μ V)
VOLTAGE ACCURACY (100 mV)	
	0.4 dB, <0.3 MHz 0.2 dB, 0.3-100 MHz 0.6 dB, 100-500 MHz 1.5 dB, >500 MHz
VOLTAGE RATIO	
Range	-90 to +70 dB
Accuracy	1.5%, >250 MHz
PHASE	
Range	-180° to +180°
Accuracy (see Note)	0.5°

ZPV with Tuner ZPV-E3

ZPV-E3 allows vector measurements, two-port and group-delay measurements in 50 ohm coaxial systems over a wide frequency and amplitude range.

FREQUENCY	0.3 - 2000 MHz, usable to 2.5 GHz
DUAL-INPUTS	
Impedance	50 Ω
Sensitivity	
Channel A	1200 μ V (typ 400 μ V), <1 MHz 1000 μ V (typ 300 μ V), >1 MHz
Channel B	5 μ V (typ 3 μ V)
VOLTAGE ACCURACY (100 mV)	
	\pm 0.2 dB, <100 MHz \pm 0.5 dB, 100-500 MHz \pm 1.2 dB, 500-1500 MHz +1.2/-2.3 dB, > 1500 MHz
VOLTAGE RATIO	
Range	-90 to +70 dB
Accuracy	1.5%, >1020 MHz
PHASE	
Range	-180° to +180°
Accuracy (see Note)	0.5°

NOTE: Phase accuracy is frequency and amplitude dependant.