

## FK2-40 Vector Voltmeter



### DESCRIPTION

The automated programmable Phase Meter/Voltmeter is designed to measure a phase difference between two sinewave signals, voltage signal level ratio.

May be operated in a manual mode or in an ATE composition over IEC 625 interface bus.

The Instrument has high measurement accuracy and resolution, small weight and power consumption.

### APPLICATION

The FK2-39 measures parameters of microwave frequency components, transmission lines, antennas, filters, crystal resonators, two-port devices.

The Instrument measures:

- signal parameters in 50 Ohm channels;
- quartz parameters;
- signal parameters in active electric circuits;
- provides equalization of section lengths.

The Instrument may be used as a selective voltmeter or as a sampler of LF instruments.

### SPECIFICATIONS

Frequency range: 1–1000 MHz

Phase difference measurement range:  $0 \div \pm 180^\circ$

Phase difference measurement error:

at equal input signals:  $\pm 0.35^\circ$

at input signal level variation within 50 dB dynamic range:  $\pm 1.5^\circ$

Signal voltage measurement range:

channel A: 0.15–1000 mV

channel B: 0.05–1000 mV

Voltage measurement error at 100 mV:

in 1–500 MHz frequency range: 6%

in 500–1000 MHz frequency range: 15%

Signal level ratio measurement range: 80 dB

Signal level ratio measurement error within 50 dB dynamic range: 0.15 dB

Isolation between channels:

1–300 MHz 100 dB

300–1000 MHz 90 dB

VSWR not more than:

1–500 MHz: 1.10

500–1000 MHz 1.15

### GENERAL

Power:  $220 \pm 22$  V, 50 Hz

Power consumption: 50 VA

Operating temperature range:  $-10 \dots 50^\circ\text{C}$

Dimensions: 120x480x420 mm

Weight: 15 kg