

CP AL1

FFT Voltmeter (Fast Fourier Transformation)

The CP AL1 is used in conjunction with the CPC 100 and CP CU1 to measure step and contact voltages.

The CPC 100 and CP CU1 can be used to feed signals into power lines or overhead lines to simulate fault currents. Step and contact voltages are now easy to measure at various locations using the mobile CP AL1 handheld device.

The CP AL1 is supplied with special OMICRON software that enables measurement of frequency-selective voltage levels through the use of a real-time zoom FFT.

The standardized 1 k Ω testing resistors for body and shoe resistance, as prescribed by relevant standards, are already fitted in the connection adapter of the CP AL1. This allows uncomplicated measurement of step and contact voltages as per the DIN VDE 0101 regulation.



CP AL1 FFT Voltmeter with adapter

CP AL1 with adapter

Frequency

Range	10 Hz to 20 kHz
Resolution	4-figure
Accuracy	$\pm 1 \%$
Zoom FFT: Resolution	0.73 Hz to 187.5 Hz

Effective value, level

Units	U_{eff} (dB μ , dBV)
Resolution	4-figure (for display in %) or 3-figure (for display in dB)
Accuracy	$\pm 1 \%$
Bandwidth	20 Hz to 20 kHz
Effective input signal level (upper limit for measurement)	3.8 V_{eff} (asymmetric) The 1:10 adapter setting must be used for $> 3.8 V_{\text{eff}}$ (asymmetric)

Mechanical data

Dimensions (W x H x D)	86 x 205 x 42 mm
Weight (incl. batteries)	447 g
Power supply	3 x 1.5 V batteries (type AA/LR6 alkaline)

Order number	VEHZ0626
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OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis and training make the product range complete.

Customers in more than 140 countries rely on the company's ability to supply leading edge technology of excellent quality. Service centers on all continents provide a broad base of knowledge and extraordinary customer support. All of this together with our strong network of sales partners is what has made our company a market leader in the electrical power industry.

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