



CVP 2200A CAPACITIVE VOLTAGE PROBE



- CISPR 22 (EN 55022), CISPR 32 (EN 55032) and CISPR 16-1-2 compliant
- Battery or DC power supply
- Switchable conversion factor
- Shielded to reduce the direct ca-
- pacitive coupling from local cables

 Calibration fixture included



CVP 2200A, opened



The Capacitive Voltage Probe (CVP) is designed for measuring asymmetrical disturbances on cables with capacitive coupling principle. It gives the opportunity to do the measuring without disconnection of the tested cable ("in-situ") and it avoids the influence of the transmission. Main parameter of the CVP is the coupling factor, measured in a calibration system with 50 Ω impedance. The capacitive voltage probe is specified in chapter 5.2.2 and Annex G of CISPR 16-1-2.

Application

The Capacitive Voltage Probe (CVP) is used for measuring on telecommunication ports for lines with more than four balanced pairs or for unbalanced lines.

Technical specifications

Sinus voltage (Average, BF = 9 kHz CISPR 16-1)Upper limit (A1, 1 dB- compression):150 dBµVLower limit (A3, f ≥ 1 MHz, noise error ≤ 1 dB):26 dBµVPulse voltage (Quasi- peak)74 dBµVUpper limit (A1, Puls frequency: 100 Hz):74 dBµVOverload indicator:for sinus- and pulse voltagesCorrection factor k1 (Only valid for a cable diameter of 22 mm)A3:A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k1±1.2 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBPower supplyinternal:internal:[inear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm	Frequency range:	150 kHz to 30 MHz	
Upper limit (A1, 1 dB- compression):150 dBµVLower limit (A3, f ≥ 1 MHz, noise error ≤ 1 dB):26 dBµVPulse voltage (Quasi- peak)26 dBµVUpper limit (A1, Puls frequency: 100 Hz):74 dBµVOverload indicator:for sinus- and pulse voltagesCorrection factor k1 (Only valid for a cable diameter of 22 mm)A3:A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k1 $\pm 1.2 dB$ A2: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A2: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ Power supply $= fearmal:$ Internal: $= fower supply, 230 VAC / 9 VDC$ DC current, typ.: $= 8 h$ Battery life, typ.: $8 h$ Cable diameter $= max:$ max: $32 mm$ min: $5 mm$			
Lower limit (A3, f ≥ 1 MHz, noise error ≤ 1 dB):26 dBµVPulse voltage (Quasi- peak)Upper limit (A1, Puls frequency: 100 Hz):74 dBµVOverload indicator:for sinus- and pulse voltagesCorrection factor k1 (Only valid for a cable diameter of 22 mm)A3:A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k1 $\pm 1.2 dB$ A2: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A2: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A2: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A2: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ A1: $\pm 0.8 dB$ Power supply $\pm 1.2 tP V_1 NiMH - Akku, e.g. 1700 mAh$ external:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.: $8 h$ Cable diameter max :max: $32 mm$ min: $5 mm$	Sinus voltage (Average, Bı⊧ = 9 kHz CISPR 16-1)		
Pulse voltage (Quasi- peak)Upper limit (A1, Puls frequency: 100 Hz):74 dBµVOverload indicator:for sinus- and pulse voltagesCorrection factor k1 (Only valid for a cable diameter of 22 mm)A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k1A3:±1.2 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA2:±0.8 dBA1:±0.8 dBA1:±0.8 dBPower supplyinternal:internal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm	Upper limit (A1, 1 dB- compression):	150 dBµV	
Upper limit (A1, Puls frequency: 100 Hz):74 dBµVOverload indicator:for sinus- and pulse voltagesCorrection factor k1 (Only valid for a cable diameter of 22 mm)A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k1A3:±1.2 dBA2:±0.8 dBA1:±0.8 dBA1:±0.8 dBA1:±0.8 dBA1:balter power supplyinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:32 mmmax:32 mmmin:5 mm		26 dBµV	
Overload indicator:for sinus- and pulse voltagesCorrection factor k1 (Only valid for a cable diameter of 22 mm)A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k1A3:±1.2 dBA2:±0.8 dBA1:±0.8 dBA1:±0.8 dBPower supplyinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm			
Correction factor k1 (Only valid for a cable diameter of 22 mm)A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k1A3:±1.2 dBA2:±0.8 dBA1:±0.8 dBPower supplyinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm			
A3:20 dBA2:30 dBA1:40 dBFrequency response correction factor k140 dBA3:±1.2 dBA2:±0.8 dBA1:±0.8 dBA1:±0.8 dBPower supply±0.8 dBinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm			
A2:30 dBA1:40 dBFrequency response correction factor k1A3:±1.2 dBA2:±0.8 dBA1:±0.8 dBA1:±0.8 dBPower supplyinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm	. ,		
A1:40 dBFrequency response correction factor k140 dBA3:±1.2 dBA2:±0.8 dBA1:±0.8 dBPower supply±0.8 dBinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm		20 dB	
Frequency response correction factor k1A3:±1.2 dBA2:±0.8 dBA1:±0.8 dBPower supply±0.8 dBinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmin:5 mm	A2:	30 dB	
A3:±1.2 dBA2:±0.8 dBA1:±0.8 dBPower supply±0.8 dBinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm	A1:	40 dB	
A2: ±0.8 dB A1: ±0.8 dB Power supply internal: 6 x 1.2 V, NiMH- Akku, e.g. 1700 mAh external: linear power supply, 230 VAC / 9 VDC DC current, typ.: 180 mA Battery life, typ.: 8 h Cable diameter max: 32 mm min: 5 mm	Frequency response correction factor k1		
A1:±0.8 dBPower supply internal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm	A3:	±1.2 dB	
Power supplyinternal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:5 mm			
internal:6 x 1.2 V, NiMH- Akku, e.g. 1700 mAhexternal:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm	A1:	±0.8 dB	
external:linear power supply, 230 VAC / 9 VDCDC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmin:5 mm			
DC current, typ.:180 mABattery life, typ.:8 hCable diameter32 mmmin:5 mm	internal:	6 x 1.2 V, NiMH- Akku, e.g. 1700 mAh	
Battery life, typ.:8 hCable diameter32 mmmax:32 mmmin:5 mm	external:	linear power supply, 230 VAC / 9 VDC	
Cable diameter max: 32 mm min: 5 mm	DC current, typ.:	180 mA	
max: 32 mm min: 5 mm	Battery life, typ.:	8 h	
min: 5 mm	Cable diameter		
•••••	max:	32 mm	
	min:	5 mm	
Connectors	Connectors		
Output to the test receiver: BNC 50 Ω, female	Output to the test receiver:	BNC 50 Ω, female	
Input power supply: jack bush, Ø 3.5 mm	Input power supply:	jack bush, Ø 3.5 mm	





CVP 2200A CAPACITIVE VOLTAGE PROBE

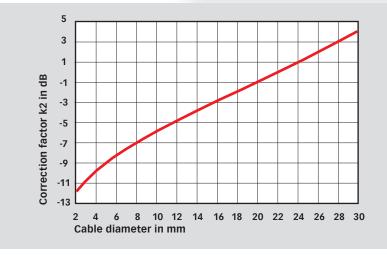


CVP 2200A, power supply, battery charger, calibration jig, RF cable and 50 Ω termination in suitcase

Mechanical specifications

Size (L x H x D in mm):	145 x 190 x 140
Weight (without batteries):	approx. 1.6 kg
Size of the suitcase (L x H x D in mm):	535 x 190 x 430
Weight of the suitcase, completed:	approx. 7.5 kg

Correction factor k2



Interference voltage [dBµV] = measured value [dBµV] + k1- factor [dB] - k2- factor [dB]

Model No. and options

Part number	Description
242201	CVP 2200A
	Capacitive voltage probe CISPR 16-1-2, CISPR 16-2-1, CISPR 22,
	CISPR 32, supplied with power supply, battery charger,
	calibration jig, RF cable and 50 Ω termination in storage case
97-242201	CVP 2200A-TC
	Traceable calibration (ISO17025), order only with device CVP 2200A
98-242201	CVP 2200A-ACC
	Accredited calibration (ISO17025), 9 kHz - 30 MHz

TASEQ Advanced Test Solutions for EMC

© October 2017 Teseq®

Specifications subject to change without notice. Teseq® is an ISO-registered company. Its products are designed and manufactured under the strict quality and environmental requirements of the ISO 9001. This document has been carefully checked. However, Teseq® does not assume any liability for errors or inaccuracies.

82-242201 E02 October 2017

