

CVP 2200A

CAPACITIVE VOLTAGE PROBE



- CISPR 22 (EN 55022), CISPR 32 (EN 55032) and CISPR 16-1-2 compliant
- Battery or 9 VDC input
- Switchable conversion factor
- Shielded to reduce the direct capacitive 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

Frequency range:	150 kHz to 30 MHz
RF voltage range (in relation to a noise figure of the receiver $F \leq 10$ dB)	
Sinus voltage (Average, $B_{IF} = 9$ kHz CISPR 16-1)	
Upper limit (A1, 1 dB- compression):	150 dB μ V
Lower limit (A3, $f \geq 1$ MHz, noise error ≤ 1 dB):	26 dB μ V
Pulse voltage (Quasi- peak)	
Upper limit (A1, Puls frequency: 100 Hz):	74 dB μ V
Overload indicator:	for sinus- and pulse voltages
Correction factor k1 (Only valid for a cable diameter of 22 mm)	
A3:	20 dB
A2:	30 dB
A1:	40 dB
Frequency response correction factor k1	
A3:	± 1.2 dB
A2:	± 0.8 dB
A1:	± 0.8 dB
Power supply	
internal:	6 x 1.2 V, NiMH- Akku, e.g. 1700 mAh
external:	9 VDC, typ.: 180 mA
Battery life, typ.:	8 h
Cable diameter	
max:	32 mm
min:	5 mm
Connectors	
Output to the test receiver:	BNC 50 Ω , female
Input power supply:	jack bush, \varnothing 3.5 mm

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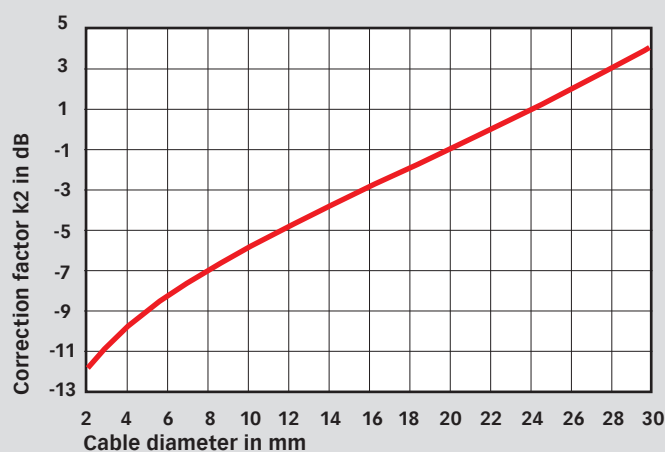


CVP 2200A, battery charger, calibration jig, RF cable and 50 Ω termination in suitcase

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



$$\text{Interference voltage [dB}\mu\text{V]} = \text{measured value [dB}\mu\text{V]} + k1\text{- factor [dB]} - k2\text{- factor [dB]}$$

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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 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