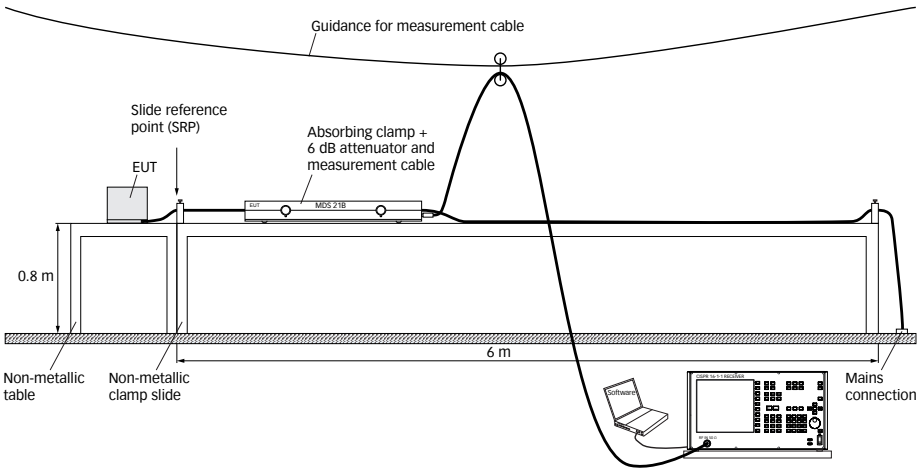
MDS 21B
ABSORBING CLAMP

- **As specified in CISPR 16-1-3/ EN 55016-1-3**
- **Disturbance power measuring, according to CISPR 16-2-2/ EN 55016-2-2, CISPR 13/EN 55013, CISPR 14-1/EN 55014-1 and EN 50083-2**
- **Excellent for using as diagnostic tool and for measurements of screening attenuation of coaxial cables**
- **Supplied with 6 dB attenuator and RF cable**

In connection with a measuring receiver according to CISPR 16-1-1, the absorbing clamp system Meyer de Stadelhofen/Lüthi (MDS) enables to measure the interference capability of radio interferers, such as domestic appliances, electric tools etc. directly; viz. by measuring the power generated by the interferer and fed to its supply cable.
The absorbing clamp measurement method (ACMM) is described in Clause 7 of CISPR 16-2-2: Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-2: Methods of measurement of disturbances and immunity – Measurement of disturbance power. The absorbing clamp itself is described in CISPR 16-1-3: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Disturbance power.

Example measurement set-up with table top EUT according CISPR 16-2-2



View to the EUT side of the opened MDS 21B

Technical specification

Frequency range:	30 MHz to 1000 MHz
Typical clamp factor:	see graph
Calibrated for receiver impedance:	50 Ω
Connector:	N, female
Max. current (f < 500 Hz):	30 A
Max. input power for immunity tests:	5 W
Diameter of appliance power cable:	up to 20 mm
Dimension (WxHxD):	610 mm x 115 mm x 80 mm
Weight:	approx. 6.3 kg
Classification:	for indoor use only
Operation:	+5 °C up to +40 °C
Relative humidity:	up to 80%

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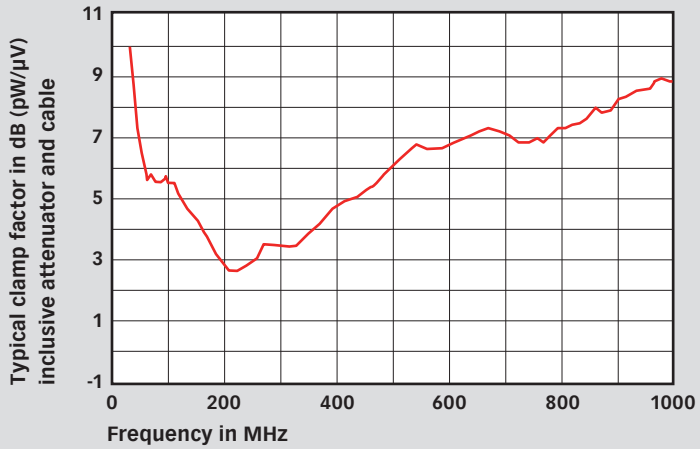
View to the AE side and RF connector

Typical clamp factor in dB (pW/µV) inclusive 6 dB attenuator and 5 m cable RG223U



The interference output is determined by the following formula:
P = V + CF
P is the disturbance power in dB(pW)
V is the measured voltage in dB(µV)
CF is the clamp factor in dB(pW/µV)

Model no. and options

Part number	Description
257260	MDS 21B Absorbing clamp acc. CISPR 16-1-3, system Meyer de Stadelhofen / Lüthi, frequency range 30 - 1000 MHz, 50 Ohm, incl. 6 dB attenuator, RF cable N(m)-N(m) 5 m RG223U and traceable calibration (certificate according ISO17025)
238252	MBT 2 Hand-operated lane for MDS 21B

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