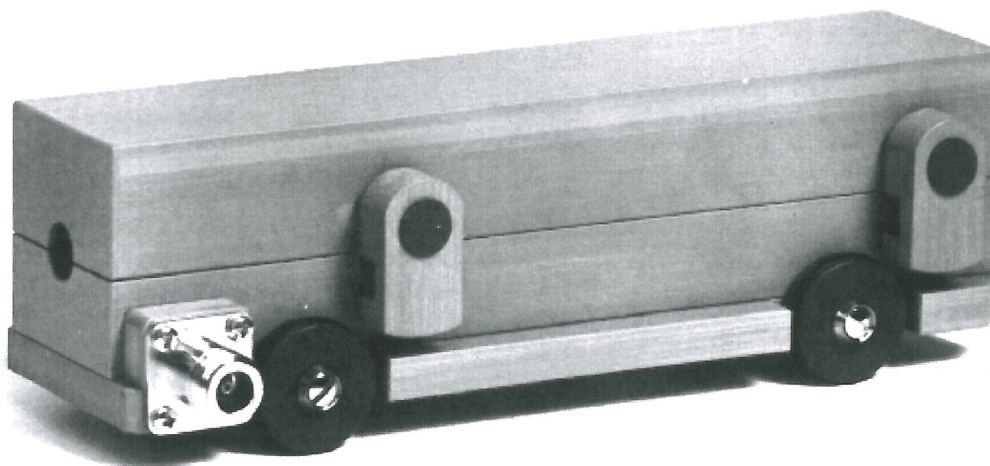


**Lüthi****Elektronik –  
Feinmechanik**

## ABSORBING CLAMP MDS 22



In connection with a measuring receiver the Absorbing Clamp MDS 22 serves to detect and measure the HF current in a conductor. The current is the cause of the emitted interference capability. The measuring technique is set out in IEC/CISPR publication 16 (according to Mr. Meyer de Stadelhofen, Swiss PTT Bern).

### Application:

The clamp is put on a plain support, and the conductor (cable) is laid into the open clamp. Locking the clamp closes the magnetic circuits. By shifting it along the cable the clamp is tuned to the maximum reading after the source of pollution. At such high frequencies the maximal are close together and the shifting distance ranges within millimeters. Therefore, the clamp is equipped with ball-bearing mounted rollers with resilient tyres.

The clamp's electrical set-up enables to read the power of the interference capability direct in dB(pW), provided that the receiver's input impedance is 50 Ohms. This is in accordance with the theoretical correlation **dB(pW) = dB(μV) + k**. k being a constant 17 dB.

As the insertion loss of the device itself is 17 dB over the whole frequency range, the power in dB (pW) is equal to the voltage measured in dB(μV). This requirement is met with an accuracy of +8 /-4 dB

The deflexions can be seen on the calibration graph supplied together with the clamp and are to be added to the receiver reading.

**HF power dB(pW) = reading dB(μV) + correction**

The highest accuracy is reached when the conductor is centered in the entry transmitter. For this purpose three insatiable sleeves for cables with diameters up to 3, 6, and 9mm are supplied with the clamp. Cables up to 12mm can be inserted.

### Specifications:

Calibrated for receiver impedance	50 Ω
Calibrated frequency range	0,3...2,5 GHz
Applicable up to	3 GHz
Insertion loss	17 dB
Passage for cables	12 mm
Insertable sleeves	3, 6, 9 mm
Dustproof ball-bearing mounted rollers	
Dimensions	230 X 70 X 70 mm
Weight	1,250 kg

**Lüthi Elektronik- Feinmechanik AG CH 4402 Frenkendorf**