

**Response Chart for
Pressure Microphone
Model Type 4135**



Nærum, Denmark

Serial No. 890691.....

Circuit Sensitivity at 1013 mbar, 23°C and 1013 Hz: 9.2 dB re. 1 V per Pa or 3.47 mV per Pa

Circuit Correction Factor:
K(*) = +23.2 dB

Grid Capacitance:
C = 6.7 pF

Grid Resistance tested at 52% relative humidity: 514 Ω

Frequency Response Characteristics:
upper curve is the open circuit free-field characteristic, valid for the Microphone Cartridge without reflecting grid. Sound waves perpendicular to diaphragm (see Fig.).
lower curve is the open circuit pressure response recorded with electrostatic actuator.
red curve is the open circuit random incidence response. Protection grid included.



To extract the gain of the preamplifier (see back of this card) from K to get the actual correction factor K. (See instruction manual for the use of K).

$1 \text{ N/m}^2 = 10 \text{ dynes/cm}^2 = 10 \mu\text{bar}$

Conditions of Tests:

Frequency: 250 Hz
Polarization voltage: 200 V 1015
Barometric Pressure: 55 mbar
Relative Humidity: 55 %
Temperature: 22 °C

Date: 27-10-80 Signature: *S.H.R.*

Summarized Specifications
Outside Diameter: 0.25 inch (6.35 mm) without protecting grid

Grid Thread (coupler mounting):
0.25 inch (6.35 mm), 60 UNS2

Resonance Frequency: approx. 100 kHz

Equivalent Air Volume at 1 atm.:
Less than 0.0006 cm³

Temperature Coefficient between -50 and +60°C:
Less than ±0.01 dB/°C at 250 Hz

Ambient Pressure Coefficient: Influence on sensitivity less than -0.1 dB for +10% pressure change at 250 Hz

Relative Humidity: Influence less than 0.1 dB, in the absence of condensation

Limiting Sound Pressure: 185 dB (not tested at higher levels)

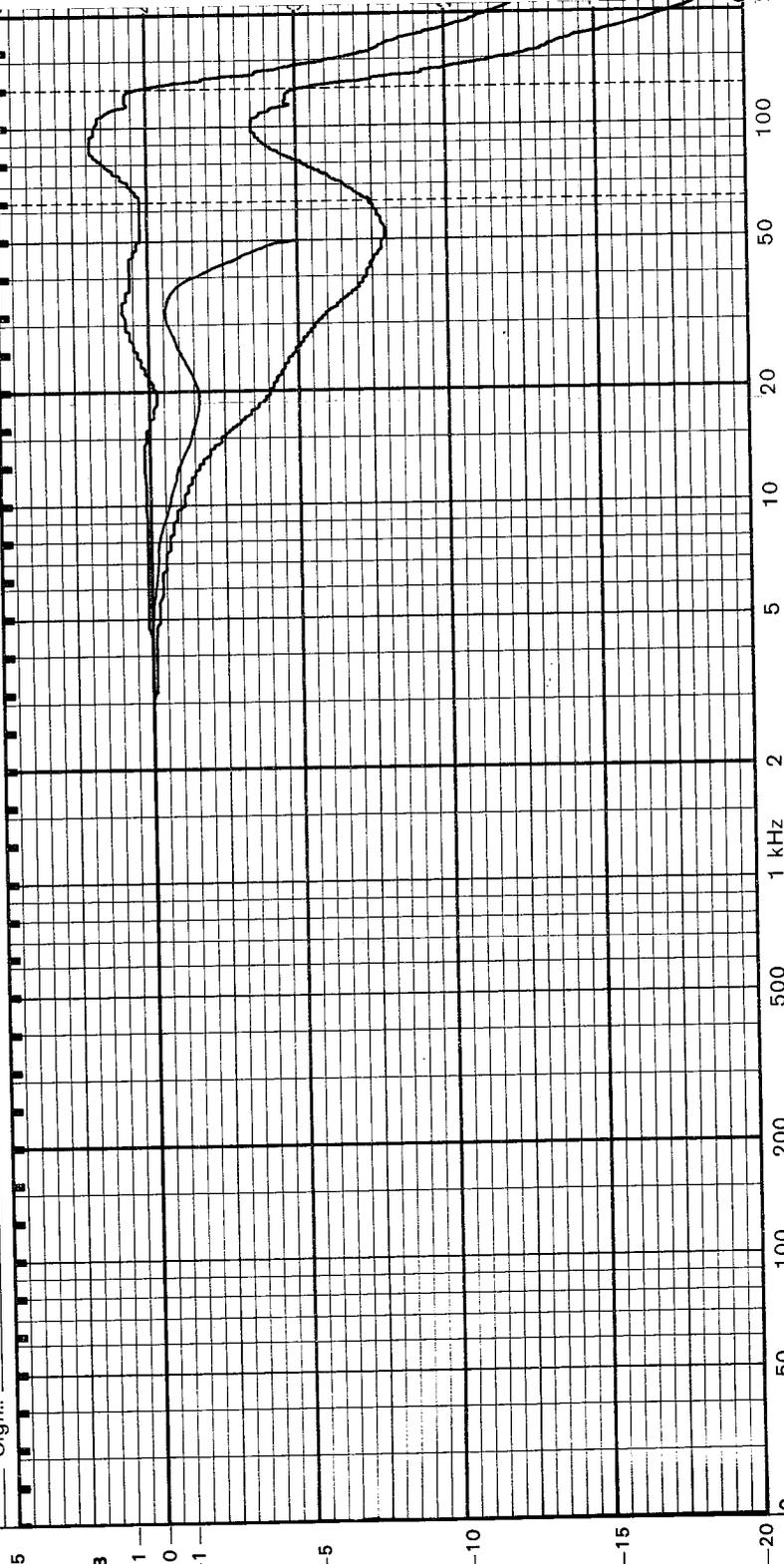
Measuring Object: _____

Sign.: _____ Date: _____

Potentiometer: _____

Zero Level: _____

D A B C Lin.



Rectifier: _____ Lower Lim. Freq.: _____ Hz. Writing Speed: _____ mm/sec. Paper Speed: _____ mm/sec.