



1/2" ICP Microphone Preamplifier

Nor1207 and Nor1207/BNC

Applications

- Microphone arrays
- Automotive
- General purpose



The Nor1207 is a low cost, general-purpose ICP®-preamplifier for 1/2" working standard prepolarized condenser microphones, designed for the most demanding use. It features a new design technology that increase the dynamic range to a value normally featured by traditional powered preamplifiers only. It is the first pattern evaluated ICP® preamplifier on the market, ensuring a high quality of the measurement in every environmental condition as specified in the class 1 requirements given in IEC-61672.

Nor1207 apply a male TNC-connector for connection to cable or instrument, while Nor1207/BNC comes with a BNC female connector.

Technical specification

(Data given with 3mA supply current)

The preamplifier has to be supplied by a constant current in the range 3 – 20 mA. The output voltage will be a fixed DC (about 10 volt) plus the AC-coupled input voltage. Output AC-voltage swing is minimum +/-5 volt if not limited by the voltage for the current source.

Dynamic range: > 120dB

Input impedance:

20 Gohm, 2,5 pF (typical) for Nor1207/BNC

20 Gohm, 18 pF (typical) for Nor1207

Frequency response $\pm 0,1$ dB: (10 Hz – 20 kHz)

Typical attenuation with microphone Nor1228 (18pF)

due to capacitive loading: 1 dB for Nor1207/BNC

6 dB for Nor1207

No signal DC out: 10 ± 2 volt

Output impedance: 35 ohm typical

Length incl. microphone Nor1228: 96 mm

Diameter:

Nor1207/BNC: 14,5 mm; Nor1207: 16 mm

Weight incl. microphone Nor1228: 50 g

Power consumption:

30 mW (dependent on supplied current)

EC classification:

As for Sound level meter Nor131.

Temperature for specified operation:

-10°C to +50°C

Temperature for storing: -30°C to +70°C

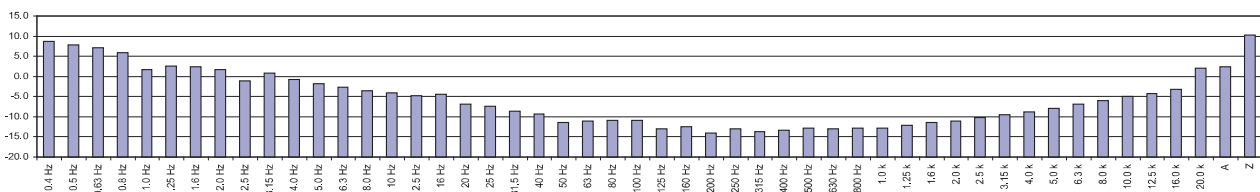
Humidity for storing and operation: 0 – 90% RH

Microphone heating: No extra heating available

Self noise:

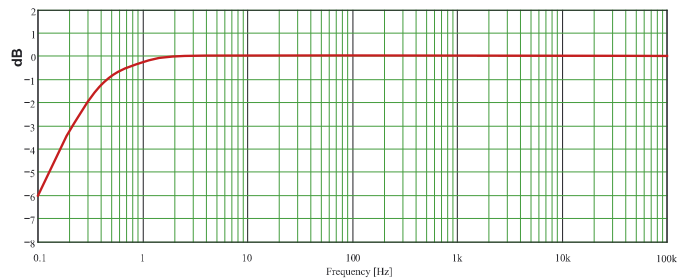
Typical equivalent noise (level with a microphone with sensitivity 50mV/Pa and 18pF capacitance re. 20 μ Pa, e.g. Nor1228): 2 μ V A-weighted (12 dB, Max 15 dB); 2,2 μ V C-weighted (13 dB).

Max length of cable (100pF/m) with a microphone with sensitivity 50mV/Pa and 18pF capacitance (E.g.



Nor1228): Below 137 dB (re. 20 μ Pa): 30 m, Below 130 dB: 100 m, Below 120 dB (re. 20 μ Pa): 300 m

Connector type: Two versions available. Nor1207 with TNC connector and Nor1207/BNC with BNC jack.



Frequency response Nor1207

Specifications subject to changes without notice.