



# 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:**  $10 \pm 2$  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

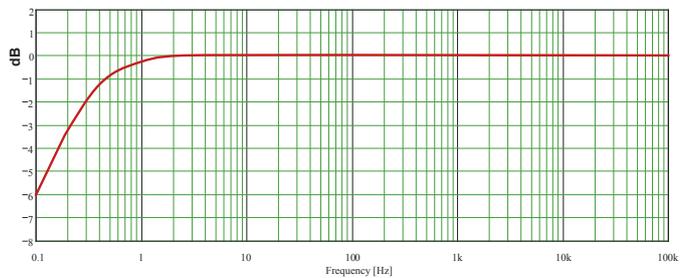
**Microphone heating:** No extra heating available

**Self noise:**

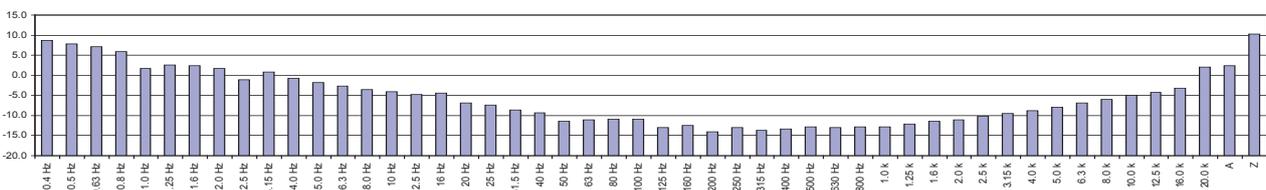
Typical equivalent noise (level with a microphone with sensitivity 50mV/Pa and 18pF capacitance re. 20  $\mu$ Pa, e.g.

Nor1228): 2  $\mu$ V A-weighted (12 dB, Max 15 dB); 2,2  $\mu$ V C-weighted (13 dB).

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



Frequency response Nor1207



**Nor1228):** Below 137 dB (re. 20  $\mu$ Pa): 30 m, Below 130 dB: 100 m, Below 120 dB (re. 20  $\mu$ Pa): 300 m

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

Specifications subject to changes without notice.

Distributor: