13013

Brüel & Kjær GmbH, Birkenweg 3-5, D-2085 Quickborn, Tel.: 04106-4055, Fax: 04106-69955 Telex: 215084 bruki.

7. SPECIFICATIONS

AMPLIFIER RESPONSE:

Measuring Range:	10 μV – 300 V RMS for FSD on meter display
Frequency Range:	2 Hz to 200 kHz ± 0.5 dB 10 Hz to 50 kHz ± 0.2 dB
Phase Deviation:	± 5° between two instruments in the 5 Hz to 20 kHz range
Total Amplification:	120 dB.

INPUT:

Input Impedance

Direct Input:	1 MΩ//50 pF
Preamp. Input:	In accordance with B & K microphone Preamplifiers.

Maximum Input Voltage

Input Section
Attenuator setting

0.3 V to 300 V:	700 V peak
3 mV to 0.1 V:	310 V peak for signal frequencies <60 Hz 165 V peak for signal frequencies <400 Hz 20 V peak for signal frequencies >400 Hz.

FREQUENCY NETWORKS:

High Pass Filter:	22.4 Hz slope > 18 dB/Octave (see also Fig.4.4).
A Weighting:	In accordance with proposed amendment to IEC 179-1965 for precision sound level measurements.

ATTENUATOR RANGE:

Input Section:	3 mV to 300 V in 10 dB steps Accurate to within ± 0.1 dB at 1 kHz relative to 100 mV position
Output Section:	x 0.003 to x 1 in 10 dB steps Accurate to within ± 0.1 dB at 1 kHz relative to x1 position
Total range:	0 – 150 dB in 10 dB steps.

METER INDICATION:

Accuracy:	± 0.3 dB for crest factors up to 4 ± 0.5 dB for crest factors up to 5
Damping:	"Fast" and "Slow" in accordance with IEC Recommendation 179-1965.

OVERLOAD INDICATOR:

Input Section:

Overload Level:	5.6 V peak ± 1 dB at 1 kHz.

The overload indicator will remain alight for the duration of the overload.

OUTPUTS:

Output Voltage:	10 V RMS corresponding to FSD
Maximum Output:	50 V peak into 16 kΩ//200 pF
Output Impedance:	<50 Ω.

REFERENCE VOLTAGE:

Signal:	50 mV RMS, 50 Hz square wave
Stability:	± 0.05 dB for ± 10% variation in mains supply voltage.

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EXT. FILTER CONNECTIONS:

Ext. Filter Input:

Output Impedance:	<10 Ω
Load Impedance:	>500 Ω
Maximum Output:	5.0 V peak

Ext. Filter Output:

Input Impedance:	146 kΩ//100 pF.

HUM AND DISTORTION:

Input Section:

Hum:	<2 μV with input short circuited
Distortion:	<0.01% with 1 V across 500Ω at external filter socket

Output Section:

Hum:	<10 μV with external filter socket short circuited
	<20 μV with external filter socket short circuited
Distortion:	<0.1% for 3 V RMS Output
	<0.3% for 10 V RMS output
	<1% for 30 V RMS Output

Values for output section distortion valid for output loaded with 10 kΩ.

NOISE:

Input Section and Filters:

Linear (2 Hz – 200 kHz):	<8 μV RMS
High Pass (22.4 Hz – 200 kHz):	<8 μV RMS
A Weighting:	<2 μV RMS

Output Section:

Linear (2 Hz – 200 kHz):	<30 μV RMS

The above values are typical figures and are valid for the Measuring Amplifier with maximum amplification and the input shorted to ground.

WARM-UP TIME:	20 sec.
OPERATING TEMPERATURE:	5° to 40°C (41° to 104°F)
STORAGE TEMPERATURE:	–25° to 70°C (–13° to 158°F)
HUMIDITY RANGE:	0 to 90% relative humidity.

POWER REQUIREMENTS:

AC Power Socket:

Voltage:	100, 115, 127, 150, 220, 240 Volts ±10% 50 – 40 Hz.
Comsumption:	25 Watts approx.

DIMENSIONS:

Cabinet Type A:	Height 132 mm (5.2 in) Width 380 mm (15.0 in) Depth 200 mm (7.9 in)

WEIGHT:

Cabinet Type A:	6.0 kg (13.2 lbs)

ACCESSORIES INCLUDED:

AN 0005/6:	Power cable and plug
AO 0013:	B & K 1.2 m coaxial cable.