

2 × 35 Watt Measurement Power Amplifier Type 2735

Type 2735 is a high-performance, 2 × 35 W power amplifier designed for electroacoustic and general purpose applications.

Uses

- Production testing
- Telecom testing
- Power amplifier for loudspeakers, artificial mouths, etc.
- General purpose audio power amplifier

Features

- 2 × 35 W ICEpower® technology inside
- 115/230 V power supply, via selector
- User-selectable 0 dB/20 dB gain setting
- Output for direct load impedance measurements (1 V/A)
- Compact design
- High-quality Speakon® and BNC connectors



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Measurement Power Amplifier Type 2735 is a compact, high-performance, two-channel power amplifier designed for electroacoustic and general purpose applications.

The amplifier has two independent 35 W output channels with high-quality Speakon output terminals. It also has two user-selectable gain settings of 0 dB and 20 dB, which makes it ideal for most audio test applications.

The unity gain setting (0 dB) eliminates the need to take an external gain factor into account in the test software, and the integrated load impedance circuitry allows direct measurement of speaker/load impedance via the 1 V/A impedance output terminals (BNC).

Fig. 1 Front and back of Type 2735

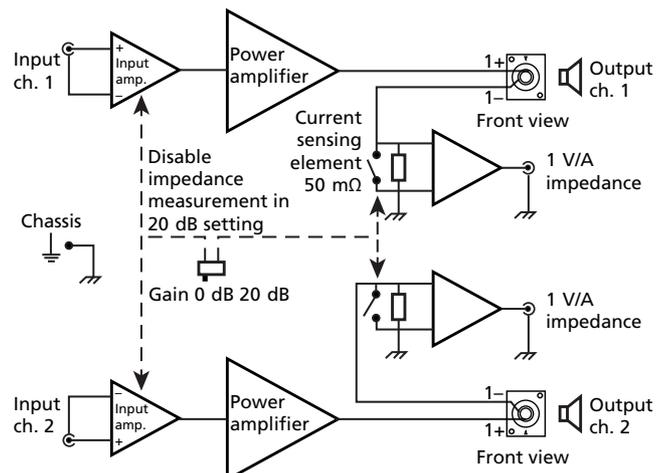


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Table 1 Connectors, switches and indicators on Type 2735

Front Panel	
Input Connectors	2 × BNC, isolated from chassis
Current Output	2 × BNC, isolated from chassis
Output Connectors	2 × Neutrik®, 4-pin Speakon sockets
Status Indicator	Green Power on
	Red Over current, over temperature
Gain Switch	0 dB, 20 dB
Rear Panel	
Mains Input	IEC type C13
Voltage Selector	90–132 V/170–264 V AC
Chassis/Ground Connector	Banana plug

Fig. 2 Block diagram of Type 2735



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Compliance with Standards

	<p>The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EU directives</p> <p>RCM mark indicates compliance with applicable ACMA technical standards – that is, for telecommunications, radio communications, EMC and EME</p> <p>China RoHS mark indicates compliance with administrative measures on the control of pollution caused by electronic information products according to the Ministry of Information Industries of the People's Republic of China</p> <p>WEEE mark indicates compliance with the EU WEEE Directive</p>
Safety	EN/IEC 61010–1 and ANSI/UL 61010–1: Safety requirements for electrical equipment for measurement, control and laboratory use
EMC Emission	EN/IEC 61000–6–3: Generic emission standard for residential, commercial, and light-industrial environments EN/IEC 61000–6–4: Generic emission standard for industrial environments EN/IEC 61326: Electrical equipment for measurement, control and laboratory use. Class B Limits CISPR 22: Radio disturbance characteristics of information technology equipment. Class B Limits.
EMC Immunity	EN/IEC 61000–6–1: Generic standards – Immunity for residential, commercial and light industrial environments EN/IEC 61000–6–2: Generic standards – Immunity for industrial environments EN/IEC 61326: Electrical equipment for measurement, control and laboratory use – EMC requirements Note 1: The above is guaranteed using accessories listed in this Product Data only
Temperature	IEC 60068–2–1 & IEC 60068–2–2: Environmental Testing. Cold and Dry Heat Operating Temperature: 0 to +50 °C (32 to 122 °F) Storage Temperature: –25 to +70 °C (–13 to +158 °F)
Humidity	IEC 60068–2–3: Damp Heat: 90% RH (non-condensing at 40 °C (104 °F)); Recovery Time: 2–4 hours
Mechanical (Non-operating)	IEC 60068–2–6: Vibration: 0.3 mm, 2 g, 10–500 Hz IEC 60068–2–27: Shock: 100 g IEC 60068–2–29: Bump: 1000 bumps at 25 g
Enclosure	IEC 60529: Protection provided by enclosures: IP 20

Specifications – 2 × 35 Watt Measurement Power Amplifier Type 2735

Max. Input Voltage	0 dB gain, 20 V _{pp}
	20 dB gain, 3.8 V _{pp}
Maximum Output Power	at 4 Ω: 2 × 45 W, 5 Hz–25 kHz
Continuous Output Power	at 20 °C 4 Ω: 2 × 35 W, 5 Hz–25 kHz
	at 50 °C 4 Ω: 2 × 10 W, 5 Hz–25 kHz
Load	≥ 3 Ω, ≤ 470 nF
Output Impedance (typ.)	0 dB gain, 75 mΩ
	20 dB gain, 25 mΩ
Freq. Response 20 Hz–20 kHz (typ.)	±0.5 dB, 1 W at 4 Ω
Voltage Gain at 1 kHz	0 dB ±0.2 dB, 20 dB ±0.2 dB
THD + Noise 1 kHz at 1 W 4 Ω (typ.)	0.01%
A-Weighted Noise (typ.)	40 μV
Dynamic Range Max. Output (rms)/ Noise (typ.)	110 dB
Common Mode Rejection (typ.)	80 dB up to 10 kHz
Input Impedance	> 20 kΩ
Current Measurement (0 dB gain only)	1 V/A, ±2%
Typical Acoustical Noise (fan)	28 dB(A) at 1 m
Dimensions	24 × 13 × 6 cm (9.5 × 5.1 × 2.4")
Weight	650 g (1.43 lb)

Ordering Information

Type 2735 **2 × 35 Watt Measurement Power Amplifier**

includes the following accessories:

- Mains Cable

OPTIONAL ACCESSORIES

WL-1325--- 2-way Banana to Speakon Cable, 5 m (16.4 ft)

TRADEMARKS

Neutrik and Speakon are registered trademarks of Neutrik AG · ICEpower is a registered trademark of ICEpower a/s

Brüel & Kjær Sound & Vibration Measurement A/S
DK-2850 Nærum · Denmark · Telephone: +45 77 41 20 00 · Fax: +45 45 80 14 05
www.bksv.com · info@bksv.com

Local representatives and service organisations worldwide

Brüel & Kjær 

