PRODUCT DATA

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, highperformance, 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).

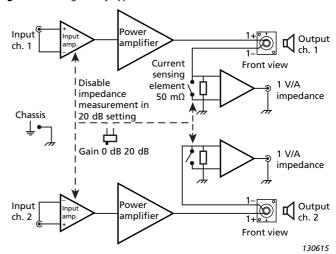
Table 1 Connectors, switches and indicators on Type 2735

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. 1 Front and back of Type 2735



Fig. 2 Block diagram of Type 2735



Compliance with Standards

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C € & ② <u>¤</u>	The CE marking is the manufacturer's declaration that the product meets the requirements of the applicable EU directives RCM mark indicates compliance with applicable ACMA technical standards – that is, for telecommunications, radio communications, EMC and EME 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 WEEE mark indicates compliance with the EU WEEE Directive	
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/IEC61000-6-1: 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

0 dB gain, 20 V _{pp}
20 dB gain, 3.8 V _{pp}
at 4 Ω: 2 × 45 W, 5 Hz-25 kHz
at 20 °C 4 Ω: 2 × 35 W, 5 Hz-25 kHz
at 50 °C 4 Ω: 2 × 10 W, 5 Hz-25 kHz
≥3 Ω, ≤ 470 nF
0 dB gain, 75 mΩ
20 dB gain, 25 mΩ
±0.5 dB, 1 W at 4 Ω
0 dB ±0.2 dB, 20 dB ±0.2 dB
0.01%
40 μV
110 dB
80 dB up to 10 kHz
>20 kΩ
1 V/A, ±2%
28 dB(A) at 1 m
24 × 13 × 6 cm (9.5 × 5.1 × 2.4")
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

 $Neutrik\ and\ Speakon\ are\ registered\ trademarks\ of\ Neutrik\ AG\cdot ICE power\ is\ a\ registered\ trademark\ of\ ICE power\ a/s$

