

Measuring Microphones, Studio Microphones, Hydrophones and Accessory Equipment

type 2804

FEATURES:

- Two identical channels
- Cross switching between inputs and outputs
- 200V, 28V or 0V polarization voltage supply for condenser microphones
- Fits B & K modular cassette system for rack mounting
- Standard 1,5 V dry cells
- Meter indication of battery condition
- Two 28 V 10—32 NF microsocket outlets for preamplifiers

USES:

- Field measurements of sound and vibration
- Field recording of data
- Measurements of sound insulation
- Traffic noise measurements

The Microphone Power Supply Type 2804 powers the B & K transistorized preamplifiers, especially the 2619 Half-inch Preamplifier for Condenser Microphones. It supplies 200V, 28V or 0V polarization voltage for the condenser microphone, and 28V for the preamplifier.

Two channels are provided. The inputs and outputs can be inter-

Battery Driven Power Supply



changed by a single switch to facilitate measurement at two positions without reconnecting the equipment.

Two additional power output microsockets are available at the back, each supplying 28V DC. Maximum current is 2×2 mA or 1×4 mA.

For use with the wide range of con-

denser microphones available from B & K, 0V, 28V or 200V microphone polarization may be selected by a simple internal modification to the printed circuit board located under the bottom panel of the 2804. The polarization voltage setting can be checked from a socket on the rear panel of the instrument. Half-inch Condenser Microphone Types 4130 and 4148 are designed for use with a nominal po-

larization voltage of 28 V, while 0 V is used for Prepolarized Condenser Microphone Types 4129, 4155 and 4176.

To prevent battery drain the heating element in the 2619 is not powered from Type 2804. However, provision is made on the rear of the 2804 for feeding the heating element from an external 6 V DC supply.

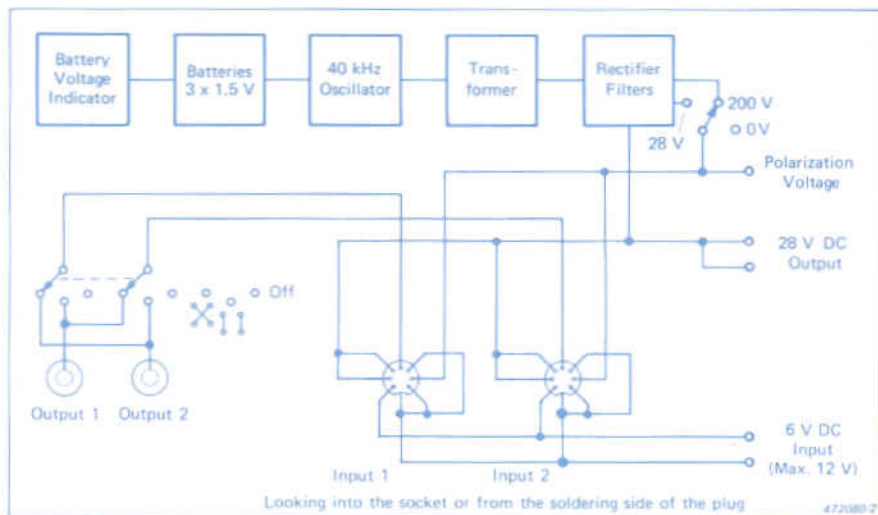


Fig.1. Block Diagram of the Type 2804

Specifications 2804

Inputs:

Two 7-pin sockets for 1/2" Microphone Preamplifiers Type 2619

Signal Outputs:

Two standard 14 mm B & K sockets
Input to output connections interchangeable by front panel switch

28 V DC Outlets:

Two 10 — 32NF microsockets. Max. current 2 × 2 mA or 1 × 4 mA with no 2619 at the input. Short circuit protected

Temperature Range:

With normal batteries: 0 to 40°C
With special batteries: 0 to 60°C
Storing conditions: —25 to 70°C

Humidity Range:

Up to 95% relative humidity at 40°C

Polarization Voltage:

200V, 28V or 0V, selectable by movable contact in the printed circuit. Stability ± 2% for all conditions mentioned above and 3 to 5V battery voltage

Noise and Ripple:

Gives no additional noise on output of Type 2619

Attenuation:

0 dB, both channels

Cross-Talk Attenuation:

Better than 100 dB for frequencies below 20 kHz
Better than 80 dB up to 200 kHz

Batteries:

3 × 1.5V IEC Type LR 20 (IEC Publication 86-2). 40 hours battery life for continuous operation with two 2619 s)
Battery condition continuously displayed on meter during operation

Preamplifier Supply Voltage:

+28V (2 × 2 mA or 1 × 4 mA) on input sockets or on output microsockets at the back

Sockets for Heating Element:

Sockets are provided for a DC external source (Max. 12 V) for heating element in Type 2619

Dimensions:

Height: 132,6 mm (5,2 in)
Width: 69,5 mm (2,7 in)
Depth: 200,0 mm (7,9 in)
(B & K module cabinet KK 0022, 2/12 of 19" rack module)

Weight:

1 kg (2,2 lb)
1,27 kg (2,8 lb) including batteries

Accessories Included:

3 × 1,5 V Alkaline batteries QB 0004, IEC Type LR 20