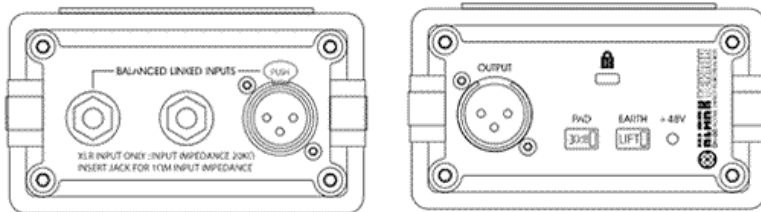


DN100 di box

architects, engineering and technical specifications

▶ Line Drawing



▶ DN100 Overview

- The new Klark Teknik DN100 Direct Injection Box is the natural successor to the long-established LBB100.
- A ground-up redesign provides an extended dynamic range, lower noise floor and all the world-class audio performance you'd expect from Klark Teknik. DN100 is also designed to handle the rigours of life on the road: a thick aluminium shell protects the electronics, and this in turn is protected by a tough silicone rubber casing, which is replaceable and available as a spare part.
- We've also fitted a Kensington security slot in one of the end panels to allow the unit to be made secure using a Kensington MicroSaver security cable.
- Attention to detail – it's what makes a good unit into a great one.

▶ DN100 Architect's & Engineer's Specification

The Direct injection module shall provide the functions of transformer isolation, impedance matching and attenuation into a low impedance active balanced input. The module shall be able to accept a maximum input level of at least 30dBu provide switchable attenuation from 0 to 30dB and output the signal into a balanced 600 ohm load.

Input connectors shall include two quarter inch jack sockets and one 3-pin XLR socket, all linked. Input impedance shall be 1M ohm (jacks sockets), 20K ohm (XLR only).

The output shall be transformer balanced and isolated, with a source impedance of 150 ohms, capable of driving a 10dBu signal into a 2k_Ω load. The output connector shall be a 3-pin XLR socket.

An earth lift switch shall be provided to disconnect input and output grounds when required.

The unit shall obtain power from a 48V phantom supply.

The unit shall achieve or exceed the following specifications:

ˆ Output noise -100dBu, 20Hz to 20kHz unweighted, with input terminated by 10k ohm resistor.

ˆ Distortion (THD+N) < 0.01% @ 1 kHz, +4dBu.

ˆ Frequency response +0.5/-1dB 20Hz to 20kHz.

ˆ Power consumption <10mA

The Direct Injection Module shall be the Klark Teknik model DN100 and no alternative option is available.

▶ DN100 Technical Data

Input

Type active electronic, balanced or unbalanced
Impedance 1M ohms nominal, balanced or unbalanced (jack connectors)
20K ohms (XLR input only)
Connectors 2 quarter inch jacks and 3-pin XLR linked in parallel
Max. Level 30dBu
Attenuator 30dB, switchable

Output

Type Transformer Isolated, balanced
Impedance 300 ohms
Connector 3 pin XLR
Max. Level 10dBu with load >2k ohms
Min. load 600 ohms

Performance

Noise -100dBu, 20Hz to 20kHz unweighted, with input terminated by 10k resistor
Frequency response +0.5/-1dB 20Hz to 20kHz
Distortion (THD+N) <0.01% @ 1kHz, +4dBu output

Power Requirement

Voltage +48V Phantom *
Current consumption <10mA

Weight <1kg

Dimensions

Length 142mm (5.6 inch)

Width 106mm (4.2 inch)

Height 60mm (2.35 inch)

* The DN100 has been designed to allow use at phantom voltages less than +48V. The unit will function down to +20V (when used with 6k8 dropping resistors) but with reduced headroom and dynamic range. All the specifications above are quoted using standard +48V Phantom power.

Trade Descriptions Act:

Due to the company policy of continuing improvement, we reserve the right to alter these specifications without prior notice. E&OE.