

User Instructions for the Smart DI V2

Congratulations to your new Smart DI. We have changes some details at the Smart DI due to some suggestions of engineers. The following functions are integrated:

An LCD display with bargraph function. The bargraph is enabled if a connector is plugged in the input socket. The bargraph is an optical response of the signal. You have a level of more than + 4 dBu if the last bar is visible. So, there is still a bit headroom until the signal will start to get harsh. However, we suggest to switch the attenuation switch in the –15 dB position if the last bar is often visible.

The **input impedance** will change between 1,6 M-Ohm in the 0 dB position to 27 k-Ohm in the –15dB position. The 1,6 M-Ohm is the best position for a connection to a high impedance instrument pick up. The smart Di will balance this signal without any coloration in this position. If you have an instrument with an active pick up (with build in battery...) then it is ok to switch to the –15 db position cause these instruments have usually a low output impedance of a few hundred ohm what will not affect to a sound coloration.

The Smart DI contains a **mute function**. The XLR output is be switched off until an input connector is be plugged in. The XLR connector will be switched on after about 0,8 sec if a jack connector is plugged in. A Mute button is implemented as well. The mute button can be disabled with switch at the left side. Just switch it in the off position if you want to disable the foot button for any reason. The mute function doesn't affect the jack output socket.

The **polarity switch** will change the polarity of the signal between 0 degree and 180 degree. In the + position is the signal on pin 2 in phase and on pin 3 out of phase.

The **ground lift switch** is a floating ground switch. The XLR connector is not galvanic separated due to the transformerless design but you will solve more than 95% of all ground problems with the Smart DI. And you even get a better signal without less coloration from your instrument compared to other di boxes with transformer.

Specification:

Dimensions	118 mm x 84 mm x 58 mm
Power Supply	48V Phantom Power
Case construction	1 mm Steel, black powder coated
Frequency response	25 Hz – 21 kHz (0 dB / -3 dB)
Max. input level	+ 11 dBu in 0 dB position, +26 dBu in –15 dB position
Max. output level	+ 11 dBu
S/N ratio, input connected	- 66 dBu
Input impedance	1,6 M-Ohm in 0 dB pos., 27 k-Ohm in –15 dB position
Attenuation when “Mute” active	-42 dB
Additional functions	Foot button disable, polarity switch

Service and Warranty:

The warranty on this product is 2 years from invoice date. Legal references: Please note that these devices may be used only by trained technicians in combination with professional public-address systems. A responsibility of the manufacturer for possible damage or disadvantages of the user by the use of the devices is hereby expressly excluded. The respective laws over the enterprise of this kind of devices are to be kept by the user. The company Axel Joost Elektronik explained further that these devices are made under the applicable CE-standards and ROHS regulations, as well as the registration as b2b equipment under the number DE54933725 WEEE. Please feel free to contact us at info@optogate.com if you have further questions.