

User Instructions for the Smart DI

Congratulations to your new Smart DI. 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. The bargraph position is routed pre poti if the dipswitch 3 is on and dipswitch 4 is off. The bargraph is routed post poti if the dipswitch 3 is off and the dip switch 4 is on. The poti is bridged and the pre amplification of The Smart DI is fixed to +7dB amplification if both dipswitches dip 3 and dip 4 are be switched on. Please note that **no mute function** is possible if this mode is switched on. Disable the Mute button if you use this mode

The **input impedance** can be changed between 500 k-Ohm (dipswitch 5 on) and 2 M-Ohm (dipswitch 5 off). The attenuation is 12 dB if the Smart DI setting is to 2 M-Ohm impedance.

The Smart DI contains a **mute function**. The XLR output is muted 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 position of dipswitch 1 and 2 will configure the Mute button. The mutebutton is enabled if dipswitch 1 is on. The mute function is in a toggle mode if dipswitch 2 is on and is in a momentary mode if dipswitch 2 is off. In this case is the xlr connector off if the button is pressed and holded. 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 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	118mm x 125mm x 58mm
Power Supply	48V Phantom Power or 12V DC supply
Case construction	1,5mm Steel, black powder coated
Frequency response	19 Hz – 21 kHz (0 dB / -3 dB)
Max. input level	+ 8 dBu
Max. output level	+ 8 dBu
S/N ratio, input connected	- 65 dBu
Max signal preamplification	+7 dB
Input impedance	Switchable between 500 k-Ohm and 2 M-Ohm
Attenuation when "Mute" active	-42 dB
Function settings	Configuration via 5 dip switches

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.