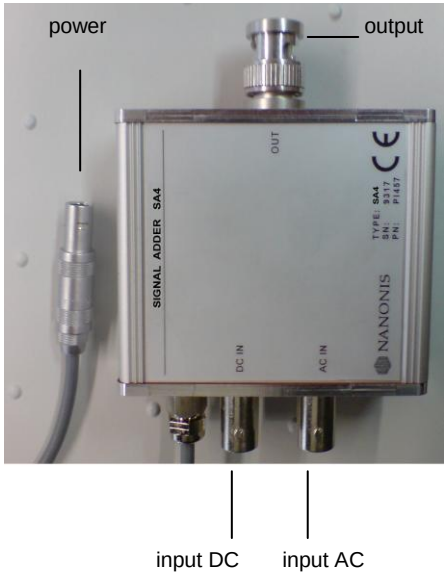
Signal Adder

NANONIS SA4

The Signal Adder allows you to add an AC-component to a DC-signal. It is usually used to measure dI/dV with an external lock-in detector, i.e. to sum an AC component to the bias.

The signal adder has foud different gain settings for the AC input (1, 1/10, 1/100 and off). The cut-off frequency is 1MHz as it can be seen in the transfer function graph.

The device is directly powered from the Nanonis SC4 or OC4.



GENERAL

• dimensions	50 x 50 x 15 mm
• cable length	3m
• operating temperature	+5º to +45º C
• compliance	CE

INPUTS

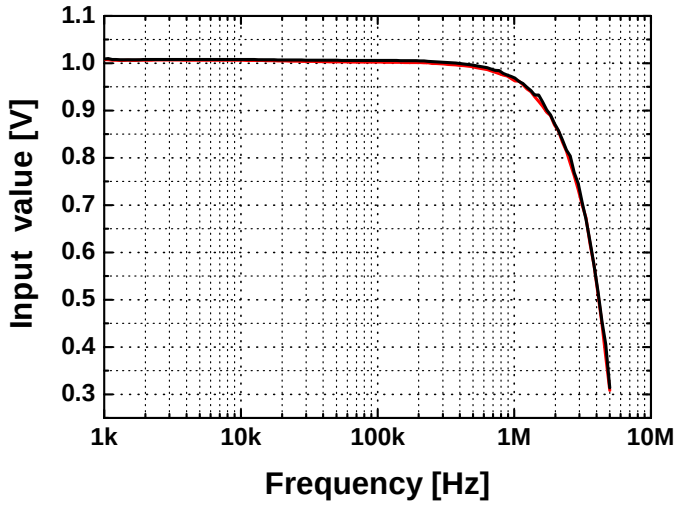
• connector	BNC
• input resistance	ca 40 Ω
• max voltage	± 10V
• analog bandwidth	1 MHz

OUTPUT

• connector	BNC
• range	± 10V
• output resistance	<40Ω, short circuit safe

POWER

• connector	4 pin Lemo (FFA.0S.304.CLAC17)
• power supply voltage	± 15 Vdc



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