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How to connect a 0-10 V analog input to the easYgen-3000XT?

Simon - 2024-10-10 - measurement

An easYgen-3000XT supports the connection of the following analog inputs:

- 0 - 1 V
- 0 - 20 mA
- 0 - 2000 Ohm

We suggest to use a converter to get a 0-1 V output from a 0-10 V input.

It's also possible to use a voltage divider with a ratio of 9 to 1 for this purpose.

The internal resistance of the easYgen3000XT Series input is quite high and has 91 kOhm according to technical data of the current easYgen3200XT
(*please double check with your latest device revision - on the data sheet!*)

So if you'd use the standardized E24 series voltage divider, you'd need to use 10 kOhm resistance.

Thus theoretically at 0-10 volts a voltage of 0 to approx.0.99 volts should be present at the analog input.

Please test & verify your setup with a real hardware device for correct behavior before installing it!

タグ

easYgen-3000XT