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!

- Tags
- easYgen-3000XT