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## I want to use easYgen-3000XT's scaleable analog output to show powerfactor on an external instrument

Clemens - 2024-09-27 - [easYgen-3000XT](#)

We would like to show easYgens generator power factor  $\cos\phi$  via analog output on an external instrument .



For this we use easYgen's analog output 6 (0-20mA).

The analog display has an input of 0-10V.

0-10V voltage we are getting by adding a 500Ω resistor. ( $I=U/R$ )

PF 0,5 kap.    0mA    0V

PF 1        10mA    5V

PF 0,5 ind.    20mA    10V

Please add 01.20 Gen PF % in the AnalogManager of ToolKit and set the min and max values accordingly.

In your example it would look like this...  
(50% =5V= corresponds to PF=1)



See as well this article:

<https://support.easygen.org/en/kb/articles/i-want-to-provide-a-0-4-20ma-powerfactor-setpoint-signal-to-easygen-3000xt>