



## MC-12 Signal converter

### Technical Specifications

PT-100 temperature sensor interface (2W / 3W / 4W)

4-20mA | -40 - 120°C

Optional USB controller

Configuration software

The new 4-20mA PT-100 converter called "MC-12" is a digital signal conditioner to convert the output of a PT-100 temperature sensor into a 4-20mA current output. The converter can be used with all PT-100 temperature sensors (2W/ 3W/ 4W) to be connected to dataloggers or inverters with a 4-20mA input channel.

By using the signal conditioner, the sensor cable can be easily extended over long distances without any signal loss or potential electromagnetic interference in noisy industrial environments. For easy conversion, the converter output for the solar sensor can be set to: 4-20mA = -40 - 120°C.

With the optional USB controller and EKO Sense software (Multiple languages) the converter settings can be freely changed. This tool will be needed in case the sensor sensitivity might need to be changed after a periodical solar sensor re-calibration. It has robust input/output screw terminals, which can be easily connected to the signal cable that leads to the

measurements system at the installation site.

	<b>MC-12</b>
<b>Output</b>	Digital (4-20mA)
<b>Input range 1</b>	-
<b>Input range 2</b>	2W, 3W, 4W PT-100
<b>Output range</b>	4-20mA = -40°C to 120°C
<b>Resolution</b>	< 0.1 °C
<b>Impedance</b>	-
<b>Temperature response -20°C to 50°C</b>	< 0.2 %
<b>Response time 95%</b>	< 1 Sec.
<b>Non-linearity full span</b>	< 0.1 %
<b>Operating temperature range</b>	-40 - 80 °C
<b>Power supply</b>	12 to 24 +/-10% VDC
<b>Power consumption</b>	0.08 - 0.5 W
<b>Dimensions mm</b>	45 (D) x 23 (H)
<b>Weight</b>	0.03 kg
<b>Ingress protection IP</b>	20

<b>Options</b>	<b>MC-12</b>
<b>USB programming kit (MC-11)</b>	USB-A

Specifications are subject to change without further notice.