



# Kipp & Zonen AMPBOX

## Product Images



## Short Description

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The Kipp & Zonen AMPBOX is a current loop amplifier for the complete range of solar radiometers.

Most radiometers have no power supply, the measured radiation is used to create an output signal in the mV range and amplification is often required, especially when signal cables of more than 50 m are used between the radiometer and data collection equipment.

The input and output of the AMPBOX are galvanically isolated to minimize feedback and to protect the data collection equipment. When installation is in EMC-unfriendly environments, amplification can prevent interference problems.

The 4 to 20 mA interface makes it easy to connect to most data collection equipment. An output of 2 to 10

Volt can be created with the use of a 500 Ω resistor and a suitable power supply.

Standard amplification is set to 2 mV input equals 1 mA output. The amplification can be adjusted, on request, to suit the sensitivity of a specific radiometer, for example with a pyranometer this results in 4 to 20 mA equals 0 to 1600 W/m².

The AMPBOX is IP66 approved and suitable, like all Kipp & Zonen radiometers, for outdoor installation under all weather conditions. Two cable glands and large internal screw terminals allow for easy connection of radiometer and output wires. Radiometer temperature sensors can be connected and passed through AMPBOX (without amplification).

**Product Specification:**

- Input ranges -12 to +150 mV
- Output range 4 to 20 mA
- Gain 2 mV/mA (adjustable)
- Operating temperature range -40 to +85 °C
- Ingress protection IP66
- Dimensions 64 x 98 x 34 mm

**Additional Information**

Brand	Kipp & Zonen
Typical applications	Environmental (Outdoor), Weather Monitoring
Measurements	Solar Radiation, Temperature