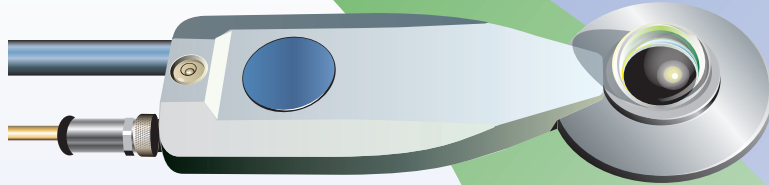
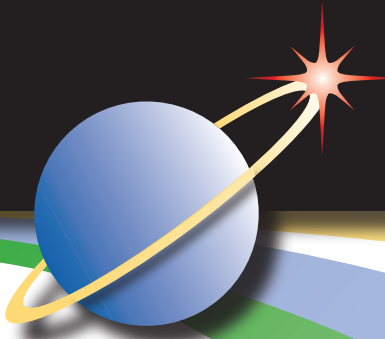


Net Radiometer

CNR 2



The Kipp & Zonen CNR 2 accurately measures net shortwave and net longwave radiation with a single instrument and provides separate outputs for each radiation type. The CNR 2 has similar accuracy to the Kipp & Zonen CNR 1 and is half the cost.

Specifications

| | <u>Pyranometer</u> | <u>Pyrgeometer</u> |
|-----------------------------|---|---------------------------------------|
| Range | 0 to 4000 W m ⁻² | -250 to 250 W m ⁻² |
| Non-linearity | (0 to 1000 W m ⁻²) < 2% | (-250 to 250 W m ⁻²) < 1% |
| Spectral Range (50% points) | 0.31 to 2.8 μm | 4.5 to 42 μm |
| Field of View | Upper: 180° Lower: 150° | Upper: 150° Lower: 150° |
| Zero offset | < 15 W m ⁻² | not applicable |
| Directional error | < 20 W m ⁻² | |
| Operating environment | - 40 to 80 °C. Designed for continuous outdoor use. | |
| Response time 95% | 10 s | |
| Temperature error | (-10 to 40 °C) < 5% | |
| Sensor asymmetry | < 5% | |
| Sensitivity | 10 to 20 μV per W m ⁻² (for both short and longwave) | |
| Annual sensitivity change | < 1% | |
| Tilt error | < 1% | |
| Uncertainty in daily total | < 10% | |
| Cable | 10 meters | |
| Dimensions | 4 x 20 x 7 cm long. 30 cm mounting rod. | |
| Mass | 250 g (add 300 g for 10 m cable) | |
| Warranty | 1 year parts and labor | |