

MEASUREMENT REPORT PYRANOMETER

Routine measurement of temperature dependency during final inspection.

DATE OF MEASUREMENT

: 21/11/2011

PERFORMED BY

: F. de Wit

PYRANOMETER TYPE

: CMP 22

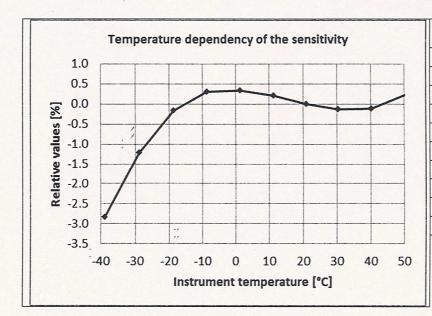
SERIAL NUMBER

: 110311

PROCEDURE:

The pyranometer is mounted on a vertical table in the climate chamber. Outside the chamber a 250 W Tungsten-Halogen lamp, at a distance of 60cm, illuminates the pyranometer at normal incidence. During the test, the pyranometer is ventilated at a windspeed of 5 m/s.

The pyranometer is tested in a temperature range over 50 °C down to -40 °C in steps of 10 °C. The relative temperature dependency is plotted below



| T [°C] | deviation [%] |
|-----------|---------------|
| 50 | 0.22 |
| 40 | -0.11 |
| 30 | -0.13 |
| 20 | 0.00 |
| 10 | 0.21 |
| 0 | 0.34 |
| -10 | 0.30 |
| -20 | -0.17 |
| -30 | -1.21 |
| -40 | -2.83 |

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