

## 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

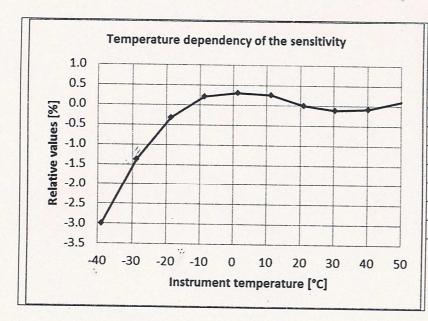
SERIAL NUMBER

: 110310

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<br>[°C] | deviation [%] |
|-----------|---------------|
| 50        | 0.11          |
| 40        | -0.08         |
| 30        | -0.12         |
| 20        | 0.00          |
| 10        | 0.25          |
| 0         | 0.31          |
| -10       | 0.21          |
| -20       | -0.32         |
| -30       | -1.39         |
| -40       | -2.99         |
|           |               |

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