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Calibration Certificate Silicon Irradiance Sensor

Calibration with artificial light and vertical irradiance in comparison with a reference cell.

Sensor Type: SI-420TC
Serial No.: 420-00003-05-15240202
Remark 1:
Remark 2:
Calibrated by: Palamut
Date / Time: 12.06.2015 10:23:35

G_target	G_read	T_amb	G_mon	T_mon	T_ir
W/m ²	W/m ²	°C	W/m ²	°C	°C
936,6	936,5	47,4	677,6	71,8	28,8

Reference Cell	Cal_G_Ref	TC_Ref	U_lamp
	µV/W/m ²	1/°C	V
Si-Ref mono-DEL ISE-1	54,741	0,000725	15,73

Datalogger

Manufacturer	Type	Serial no.	Signals
Gantner Instruments	IDL100	191667	G_mon T_mon T_ir T_amb U_lamp PT100 PT1000 G_100mV
Gantner Instruments	ISM111	078743	G_10V T_10V G_20mA T_20mA

G_mon	Irradiance monitoring cell [W/m ²]
T_mon	Temperature monitoring cell [°C]
T_ir	Infrared temperature of irradiance sensor [°C]
T_amb	Ambient temperature of sensors within the simulator [°C]
U_lamp	Voltage for lamps within the simulator [V]
G_target	Desired value of irradiance [W/m ²]
G_read	Reading value of irradiance [W/m ²]
Reference Cell	Name of reference cell
Cal_G_Ref	Calibration factor of reference cell [mV/(W/m ²)]
TC_Ref	Temperature coefficient of reference cell [1/°C]
G_100mV	Voltage irradiance sensor [mV]
G_10V	Voltage irradiance sensor [V]
T_10V	Voltage temperature irradiance sensor [V]
G_20mA	Current irradiance sensor [mA]
T_20mA	Current temperature irradiance sensor [mA]
PT100	Cell temperature Sensor PT100 [°C]
PT1000	Cell temperature Sensor PT1000 [°C]