Hukseflux Thermal Sensors B.V.
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Product certificate

Pages: 1
Release date: 10-04-2015

Product code	**NR01-00**
Product identification	**serial number 2420**
Product type	4-component net-radiation sensor
Measurand	net radiation

Product specifications

1:	functional test	**passed**
2:	cable length	**0 m**

Person authorising acceptance and release of product:
W.J.B. Fokke

Date:
10-04-2015

Calibration results

Component	SR01 ↓	SR01 ↑	IR01 ↓	IR01 ↑
Position	1	2	3	4
Serial number	**4045**	**4046**	**3986**	**3987**
Sensitivity	**19.56 x 10^{-6}**	**16.38 x 10^{-6}**	**11.50 x 10^{-6}**	**13.15 x 10^{-6}**
Uncertainty*	± 0.24 x 10^{-6}	± 0.20 x 10^{-6}	± 0.61 x 10^{-6}	± 0.70 x 10^{-6}
Calibration date	30-01-2015	30-01-2015	04-02-2015	03-02-2015
Resistance	66.7	63.5	169.2	204.1

With Sensitivity in V/(W/m^2), Uncertainty in V/(W/m^2), Resistance in Ω

* the number following the ± symbol is the expanded uncertainty with a coverage factor k = 2, and defines an interval estimated to have a level of confidence of 95 percent

Table 0.1 *connections* ***Cable 1***

PCB04	WIRE	
1	Blue	SR01 ↓ [−]
2	Red	SR01 ↓ [+]
3	Yellow	IR01 ↓ [−]
4	Brown	IR01 ↓ [+]
5	Grey	IR01 ↑ [−]
6	Pink	IR01 ↑ [+]
7	Green	SR01 ↑ [−]
8	White	SR01 ↑ [+]
11	Black	shield

Table 0.2 *connections* ***Cable 2***

PCB05	WIRE	
1	Brown	heater
2	Red	Pt100 [+]
3	White	Pt100 [+]
4	Blue	Pt100 [−]
5	Green	Pt100 [−]
6	Yellow	heater
	Pink	not connected
	Grey	not connected
10	Black	shield

The Pt100 is a single four-wire resistance temperature detector measuring instrument body temperature.

SR01 calibration procedure according to ISO 9847. Traceability of calibration is to the WRR (World Radiometric Reference) maintained at the World Radiation Center in Davos, Switzerland.

IR01 calibration procedure according to Hukseflux IRC02. Traceability of calibration is to the WISG (World Infrared Standard Group) operated at the Infrared Radiometry Section of the World Radiation Center in Davos, Switzerland.

Please consult the user manual for detailed measurement functions and product set up, operation and maintenance instructions.