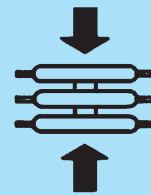
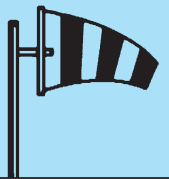
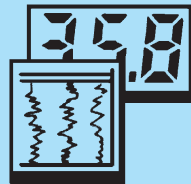
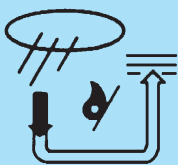
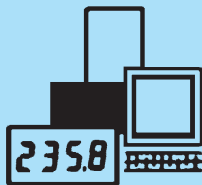
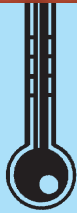
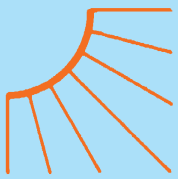


Radiation



THE WORLD OF WEATHER DATA

Measurement and Documentation: Our range of service for meteorology, environmental protection and industry

Today more than ever, the measurement, processing and analysis of meteorological data requires a high degree of measurement instrument precision and an optimal adaption of the data acquired to the task at hand.

For more than 50 years, we have been developing, producing and supplying practical instruments and systems for the analysis of weather data. Today we are one of the world's largest suppliers of such equipment.

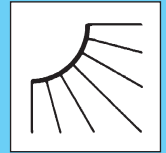
Our close cooperation with scientific institutions and governmental agencies in many countries guarantees a constant and up-to-date flow of information about all aspects of individual national problems and projects and the rapid implementation of state-of-the-art developments and measurement techniques.

Our instruments and systems fulfill in all respects both to the requirements of national weather services as well as those of the World Meteorological Organization in Geneva.

Meteorological observations without computer-aided measurement and documentation systems are unthinkable today.

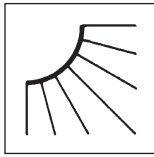
Enercorp is pleased to support and sell these fine meteorological instruments designed and built by Thies Clima in Germany.





Glossary

Albedo	The diffuse or reflected radiation, which, e.g., returns to the space „Albedo of the whole earth“
cos-Correction	Compensation of cos-error.
cos-Error	Deviation of transmitter sensitivity from ideal dependency of direction. The sensitivity of sensor is depending with the cos-function in ideal manner from the direction.
Direct Radiation	The part of radiation falling in from the direction of the sun.
Global Radiation	The sum of direct solar radiation and diffuse radiation. The spectral range extends within the short-wave range, 0.3 μm to 3 μm
Infrared Radiation	Radiation above the visible radiation in the spectral range $> 0.76 \mu\text{m}$.
Long-wave Radiation	Radiation in the spectral range above 3 μm .
Net Radiation or Radiation Balance (long-wave)	Difference between short-wave global radiation and long-wave atmospheric counter radiation on the one hand and short-wave reflection radiation and long-wave temperature radiation of the earth on the other hand.
PAR	The photosynthetic active radiation in the spectral range 0.4–0.7 μm . It is a fundamental factor for the growth of plants (forming of chlorophyll).
Pyranometer	Instrument for the measurement of the global radiation.
Pyrradiometer	Instrument for the measurement of radiation balance in the total spectrum of the solar radiation.
Radiation Balance or Net Radiation (short-wave)	Difference between the infalling global radiation and the reflecting radiation of the ground.
Short-wave Radiation	Radiation in the spectral range below 3 μm
Sky Radiation Diffuse Radiation	Radiation which is diffused by air particles on its way through the atmosphere and which reaches the earth's surface.
Solar Constant	Radiation which can be measured at the upper limit of the atmosphere: 1.37 kW/m ² .
Solar Radiation	Radiation coming directly from the sun. Nearly exclusively with wave lengths up to 3 μm
Sunshine Duration	Period in which the solar radiation exceeds the threshold $>120 \text{ W/m}^2$.
UV-Radiation	The ultraviolet radiation below the visible radiation in the spectral range $< 0.36 \mu\text{m}$.
UVA Radiation	The long-wave UV-radiation in the spectral range $> 0.313 \mu\text{m}$. It is essential for the strengthening of the human immunity system and is responsible for the sun tan of the skin.
UVB Radiation	The short-wave UV-radiation in the spectral range $< 0.313 \mu\text{m}$. It is dangerous for irreversible damages of the human skin (cancer of the skin).
Visible Radiation	The light perceived by the human eye in the spectral range of 0.36 - 0.76 μm .



Radiation

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Model Brief
Description

Order No.

Technical Data

Sunshine



Sunshine Recorder acc. to Campbell-Stokes

Registers the sunshine duration for one entire day. A cut glass sphere focuses the sun's rays and leave an image line on the strip chart. The length of the image line corresponds to the duration of sunshine. The shipment includes the following strip charts
140 sheets for summer
140 sheets for winter
100 sheets for spring and autumn

Recording charts for:
7.1400.10.000
7.1405.10.000

7.1400.10.000

North. and southern hemisphere,
latitude, 0 - 40 °

7.1405.10.000

North. and southern hemisphere,
latitude, 25 - 60 °
Measuring value sunshine duration
Degree of latitude adjustable
Recording period 1 day per strip chart
Dimensions 205 x 185 x 145 mm
Weight 5 kg

205210
205213



Sunshine Indicator SDE

Instrument to measure the global radiation and the sunshine duration. The threshold of sunshine duration is stated by the German Weather Service (DWD) with 120 W/m². The sensor delivers a digital Yes-/No-information for the sunshine duration and a voltage as information for the global radiation. The measurement is cos-corrected. Delivery includes calibration certificate.

7.1420.00.000

Measuring range 0 - ca. 1300 W/m²
Spectral range 0.38 μm - 1.1 μm
Max. spectr. sensitivity 0.78 μm
Ambient temp. -30°C - +60 °C
Linearity < 1 %
Cos-correction error f2 < 3%
Absolute error < ± 5 %
Signal output 0 - 5 V (global rad.)
Operating voltage 10 V - 18 V DC
Sunshine duration signal yes 4.5 V - 5.0 V
no 0 V - 0.6 V
Threshold 120 W/m², adjustable
Diffusor PTFE
Cable 5 m long
Dimensions Ø 80 mm, 82 mm high
Weight 0.3 kg

Brightness

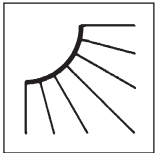


Brightness Transmitter

The instrument serves for the acquisition of the daylight intensity, and is adapted to the sensitivity of the human eye. The linearized electrical output signal can be used for the control of shading devices, heating systems, and irrigation plants.

7.1414.10.xxx
7.1414.12.xxx
7.1414.15.xxx
7.1414.22.xxx
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Measuring range 0 - 100 000 lux
0 - 20 000 lux
0 - 5 000 lux
0 - 2 000 lux
Electrical output 0 - 20 mA (600 Ω)
4 - 20 mA (600 Ω)
0 - 10 V (max. 10 mA)
Accuracy ± 3 % of mr.
Spectral range 0.350 - 0.775 μm
Half angle ± 55 degree
Operating voltage 24 V AC/DC
Protection IP 65
Dimensions 80 x 82 x 65 mm
Weight 0.15 kg

Model Brief
Description

Order No.

Technical Data

Brightness Transmitter

independent of the direction

The measuring transmitter adapted to the sensitivity of the human eye serves for the acquisition of the total ambient brightness. The measuring range and the electrical output can be set through internal code-switches. The standardized output of the measuring value allows the connection to available control systems.

7.1414.51.

Measuring range	0 - 100000 lux 0 - 50000 lux 0 - 10000 lux 0 - 1000 lux
Electrical output programmable	0 - 20 mA (350 Ω) 4 - 20 mA (350 Ω) 0 - 10 V (max. 5 mA)
Electrical output 2	see output 1 only 0 - 1000 lux
Accuracy	± 5 % of mr.
Half angle	180 degree
Operating voltage	15 - 36 V DC 15 - 26 V AC
Ambient temp.	- 30 - + 70 °C
Protection	IP 65
Cable	5 m long
Dimensions	Ø 70 x 73 mm
Weight	0.4 kg

**Global Radition****Pyranometer CM 11**

WMO-recommended measured value transmitter to determine global radiation. It is also used as a reference instrument due to its measurement precision. Easy to adjust horizontally owing to its adjustable feet and a level. The protective label can be easily removed.

The instrument is "secondary standard" according to WMO and ISO 9060.

Delivery includes calibration certificate.

7.1415.01.000

Measuring range	0 - 1400 W/m ²
Sensitivity	4 - 6 μV/Wm ⁻²
Spectral range	0.305 - 2.8 μm
Non-linearity	± 0.6 % < 1000 W/m ²
Impedance	700 - 1500 Ω
Response time	1/e 4s ; 99 % 24s
Sensor type	100 Thermocouples
Ambient. temp.	- 40 - + 80 °C
Cable	10 m long
Dimensions	Ø 150 x 92 mm
Weight	0.85 kg

**Pyranometer CM 6B**

The instrument can be used also as Albedometer. Easy to adjust horizontally owing to its adjustable feet and a level. The protective label can be easily removed.

The instrument is "first class" according to WMO and ISO 9060.

Delivery includes calibration certificate.

7.1415.02.000

Measuring range	0 - 1400 W/m ²
Sensitivity	9 - 15 μV/Wm ⁻²
Spectral range	0.305 - 2.8 μm
Non-linearity	± 1.5 % (< 1000 W/m ²)
Impedance	70 - 100 Ω
Response time	1/e 5 s ; 99 % 55s
Sensor type	64 Thermocouples
Ambient. temp.	- 40 - + 80 °C
Cable	10 m long
Dimensions	Ø 150 x 92 mm
Weight	0.85 kg

**Pyranometer CM 3**

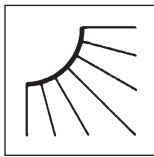
Measuring value transmitter for the determination of the global radiation. The instrument can be used also as Albedometer. The instrument is "second class" according to WMO and ISO 9060.

Delivery includes calibration certificate.

7.1415.03.000

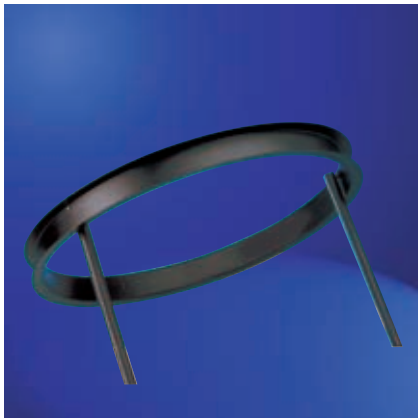
Measuring range	0 - 1400 W/m ²
Sensitivity	10 - 35 μV/Wm ⁻²
Spectral range	0.305 - 2.8 μm
Non-linearity	± 2.5 % (< 1000 W/m ²)
Impedance	79 - 200 Ω
Response time	18 s at 95 %
Sensor type	64 Thermocouples
Ambient. temp.	- 40 - + 80 °C
Cable	5 m long
Dimensions	Ø 55 x 60 mm
Weight	0.35 kg





Radiation

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Model Brief
Description

Shadow Ring CM 121

Serves for shading the Pyranometer from direct solar radiation. By that, an exact measurement of the diffuse sky radiation is possible.

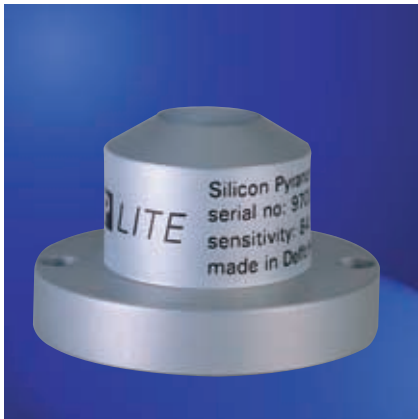
Suitable sensors :
Pyranometer CM 11 or
Pyranometer CM 6B

Order No.

7.1415.01.121

Technical Data

Material	anodized aluminium
Height (max.)	800 mm
Ring outer Ø	620 mm
Ring width	55 mm
Ring width / Ring radius ratio	0.185
Weight, incl. CM 11	5.8 kg



Pyranometer SP-Lite

Electrical measuring instrument to measure the global radiation. The sensor element consists of a silicon-photodiode; it delivers a voltage signal in direct proportion to the radiation. Delivery includes calibration certificate.

7.1415.08.000

Measuring range	0 - 2000 W/m ²
Measuring element	Silicium diode
Spectral range	0.4 - 1.1 µm
Sensitivity	100 µV/Wm ⁻²
Cos-error	< 10 %
Temperature error	± 0.15 % / °C
Ambient temp.	- 30 - + 70 °C
Response time	< 1 s
Impedance	50 Ω
Cable	3 m long
Dimensions	Ø 54 x 34 mm
Weight	0.15 kg



Pyranometer GSM 3.3

Electrical measuring instrument to measure the global radiation.

The measurement is cos-corrected.

Delivery includes calibration certificate.

7.1415.09.xxx

Measuring range	0 - 1300 W/m ²
Electrical output	0 - 20 mA
	4 - 20 mA
	0 - 5 V
	0 - 10 V

7.1415.09.xxx

Spectral range	0.4 - 1.1 µm
Max. spectr. sensitivity	0.78 µm
Cos-correction	error f2 < 3 %
Linearity	< 1 %
Abs. error	< 10 %
Diffuser	PTFE
Dome	PMMA
Ambient temp.	- 30 - + 60 °C
Operating voltage	10 - 18 VDC
Cable	5 m long
Dimensions	Ø 80 x 95 mm
Weight	0.3 kg



Net Radiation Transmitter

Suitable for measuring radiation balance consists of two identical thermocouple elements.

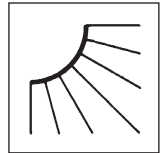
The upper plate measures global radiation, the lower one measures the reflected radiation from the surface. The interior is dried by means of silica gel.

The instrument is "first class" according to WMO

Delivery includes calibration certificate.

7.1415.10.000

Measuring range	0 - 1500 W/m ²
Sensitivity	approx. 15 µV/Wm ⁻²
Spectral range	0.3 - >30 µm
Impedance	approx. 5 Ω
Response time	25 s at 95 %
Linearity	± 2 % (0.5 - 1330 W/m ²)
Dome	Lupolene
Sensor type	Thermocouples
Ambient temp.	- 40 - + 60 °C
Cable	10 m long
Dimensions	127 x 50 x 35 mm
Weight	0.35 kg



Model Brief
Description

Order No.

Technical Data

Pyrradiometer

For measurement of the total radiation balance, global radiation and reflected radiation. The measuring values of the global and the reflected radiation are put out separately. The instrument is "first class" according to WMO.

Delivery includes calibration certificate.

7.1415.20.000

Measuring range 0 - 1500 W/m²
Sensitivity approx. 15 μV/Wm⁻²
Spectral range 0.3 - > 60 μm
Impedance approx. 190 Ω/Sensor
Linearity < 2 % (0.5 - 1330 W/m²)
Response time 25 s at 95 %
45 s at 99 %
Sensor type Thermocouples
Ambient temp. - 40 - + 60 °C
Cable 5 m long
Dimensions Ø 90 x 88 mm
Weight 1.25 kg



Albedometer CM 7B

To measure the short-wave radiation balance, global radiation and reflection radiation. Albedo could be calculated from this measured values. The instrument consists of two identical Pyrradiometers. The upper measures the global radiation, the lower the reflection radiation of the ground. The Pyrradiometers have separate outputs. The interior is dried by means of silica gel. Delivery includes calibration certificate.

7.1415.15.000

Measuring range 0 - 2000 W/m²
Sensitivity 9 - 15 μV/Wm⁻²
Spectral range 0.3 - 2.8 μm
Impedance 70 - 100 Ω
Linearity ±1.5% (< 1000 W/m²)
Response time 1/e 4 s; 55 s at 99%
Sensor type Thermocouples
Cable 10 m long
Dimensions Ø 150 x 115 mm
Weight 1.9 kg

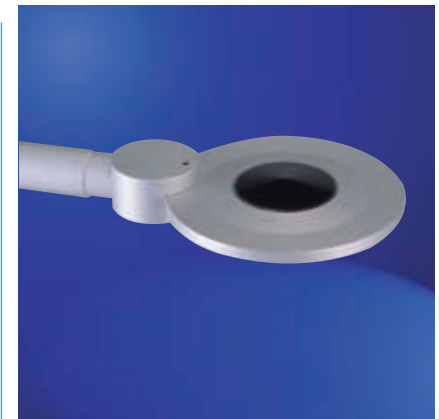


Net Radiometer NR Lite

The instrument serves to measure the net radiation and the proportion between the solar radiation and the infrared radiation far away. The output signal is in proportion to the net radiation and can be interpreted as radiation energy, which is absorbed from the earth's surface.

7.1415.40.000

Measuring range - 200 - + 1500 W/m²
Sensitivity 10 μV/Wm⁻²
Spectral range 0.2 - 100 μm
Response time 20 s
Sensor type Thermocouples
Ambient temp. - 30 - + 70 °C
Cable 3 m long
Dimensions Ø 80 mm
Support Arm Ø 16 x 400 mm
Weight 0.26 kg



UV Radiation

UVAB Sensor S

The sensor acquires the radiations UV-A and UV-B independently from each other. The separately stated measuring results give direct information about the medically and biologically relevant correlation of these radiation fields.

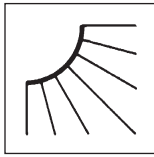
Mounting / Adjustment Device
(not shown)
To align the **UVAB Sensor S** horizontally.

7.1416.00.000

UV-B
Measuring range 0 - 1.25 W /m²
Spectral range 0.28 - 0.315 μm
UV-A
Measuring range 0 - 42.7 W /m²
Spectral range 0.315 - 0.4 μm
Electrical output 2 x 0 - 3 V
Linearity < 0.2 %
Ambient temp. -25 °C - + 50 °C
Operating voltage 6 - 32 V DC, 12 mA
Heating 7 - 18 V DC, 8 W
Cable / Connector 1 Connector
Dimensions Ø 122 x 127 mm
Weight 1.2 kg

7.1416.01.000





Radiation

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Model Brief
Description

Order No.

Technical Data



UVAB Sensor E 1.1

The sensor acquires the radiations UV-A and UV-B independently from each other. The measuring results correspond to the erythem-curve acc. to DIN 5050. They give direct information about the medically and biologically relevant correlation of these radiation fields.

The measurement is cos-corrected

Delivery includes calibration certificate.

7.1416.10.040
.041
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Electrical output 0 - 20 mA
4 - 20 mA
0 - 5 V
0 - 10 V

UV-B

Measuring range 0 - 0.5 W /m²
Spectral range 0.265 - 0.315 μm
max. sensitivity 0.297 μm

UV-A

Measuring range 0 - 30 W /m²
Spectral range 0.310 - 0.400 μm
max. sensitivity 0.335 μm

Operating voltage 10 - 18 V DC / 250 μA
Ambient temp. - 30 °C - + 60 °C
Switch on time < 1 s
Switch off time < 12 s
Cos-correction error f2 < 1,5 %
Linearity < 1 %
Absolute error < ± 10 %
Temp. coeff. < 0,2 % /K
Cable 5 m long, connector
Dimensions Ø 80 x 82 mm
Weight 0.3 kg



UVB Sensor E 1.c

Measuring transmitter for short-wave radiation, which can cause irreversible damages of the human skin.

The relative spectral sensitivity of the sensor is especially suited to the erythem-curve acc. to DIN 5050. This sensor determines exactly the skin-damaging components of the spectral range.

Delivery includes calibration certificate.

7.1416.20.040
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Electrical output 0 - 20 mA
4 - 20 mA
0 - 5 V
0 - 10 V

Measuring range 0 - ca. 0.5 W /m²
Spectral range 0.265 - 0.315 μm
Max. spectr. sensitivity 0.297 μm

Ambient temp. -30 °C - + 60 °C
Switch on time < 1 s
Switch off time < 12 s
Cos-correction error f2 < 3 %
Linearity < 1 %
Absolute error < 10 %
Operating voltage 10 - 18 V DC
Cable 5 m long
Dimensions Ø 36 x 90 mm
Weight 0.3 kg

Photo Synthesis



Sensor PAR 5.3

With the PAR-sensor the photochemical growth processes of outdoor- and greenhouse-plants can be optimized.

The sensitivity corresponds to the optimal degree of effect of chlorophyll. The measuring results make it possible to assess reliably the developmental conditions of the plants.

Delivery includes calibration certificate.

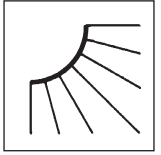
7.1418.00.040
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.051
.061

Electrical output 0 - 20 mA
4 - 20 mA
0 - 5 V
0 - 10 V

Measuring range 0 - 250 W/m²
Spectral range 0.38 - 0.7 μm
Max. spektr. sensitivity 0.42 and 0.6 μm

Switch on time < 1 s
Switch off time < 12 s
Cos-Correction error f2 < 3 %
Linearity < 1 %
Abs. error < 10 %
Ambient temp. - 30 °C - + 60 °C
Operating voltage + 9 V - +24 V DC
+14 V - +24 V DC
max. 750 μA

Cable 5 m long
Dimensions Ø 80 x 95 mm
Weight 0.3 kg



Model Brief
Description

Order No.

Technical Data

Heat Flux

Heat Flux Plate

Measures the temperature balance through a surface. Consists of 250 Cu-CuNi thermocouples between two stainless steel plates.

Delivery includes calibration certificate.

7.1417.00.000

Sensitivity 200 $\mu\text{V}/\text{mW}/\text{cm}^2$
 Impedance 20 Ω
 Accuracy $\pm 5 \%$
 Time response 30 s in air (95 %)
 Temp. Coeff. 0.2 % / $^{\circ}\text{C}$
 Cable 4 m long
 Dimensions 48 x 33 x 6 mm
 Weight 0.22 kg



Transducer

Measuring Transducer SH Radiation – Brightness

This measuring transducer is usually connected to radiation or brightness transmitters. This allows the control of connected recording or display instrument. The electrical input is individually adjusted to correspond to that of the transmitter. The wall mounting case is designed for mounting to a plane wall, the PC-board is designed for insertion into a 19" board rack.

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 7.1184.xx.xxx
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 .10.xxx
 .040
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Measuring range 0 - 1300 W/m^2
 -300 - 1000 W/m^2
 Model Wall mounting case
 PC-board
 Electrical output 0 - 20 mA
 4 - 20 mA
 0 - 10 V
 Electrical Input mV, acc. to the sensor
 Ambient temp. 0 - 40 $^{\circ}\text{C}$
 Operating voltage 230 V / 50 Hz
 Protection IP 65 (wmc)
 Dimensions 200 x 120 x 75 mm (wmc)
 170 x 100 x 30 mm (pcb)
 Weight 0.65 kg resp. 0.25 kg



Preamplifier

The instrument serves to convert the small measuring value signals of the radiation sensor into a standardized signal, which can be transmitted also over a long distance afterwards.

7.1415.00.100

Electrical input mV, individually adjusted to the corresponded sensor
 Electrical output 0 - 5 V (0 - 1250 W/m^2)
 Ambient temp. - 30 - + 50 $^{\circ}\text{C}$
 Operating voltage 6 - 18 V DC
 Protection IP 65
 Cable 3 m long
 Dimensions 58 x 35 x 64 mm
 Weight 0.18 kg



Digital Displays

Digital Indicator S for Installation

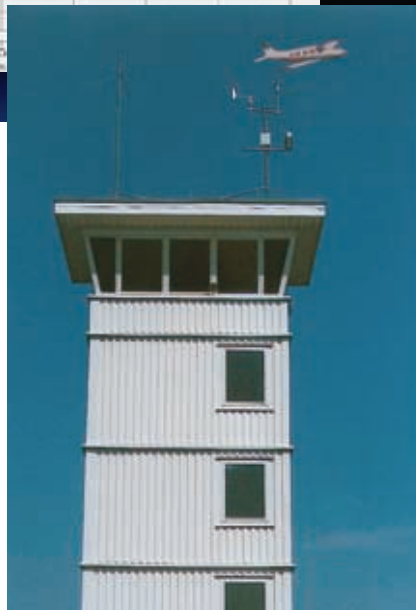
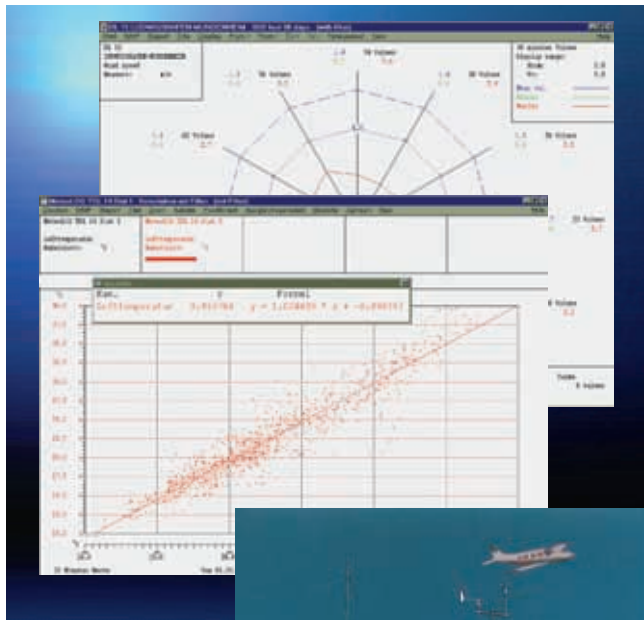
Flat-section indicator for connection to available radiation data transmitters or measuring transducer. The measured value is indicated digitally with red LED digits. Designed for installation in switch panels or front panels. The background of the indicator is black to facilitate reading.

7.1044.10.xxx
 7.1044.11.xxx
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 .041
 .061

Display range 0 - 1300 W/m^2
 -300 - 1000 W/m^2
 Electrical Input 0 - 20 mA
 4 - 20 mA
 0 - 10 V
 Resolution ± 1 digit
 Display LED, red, 13 mm high
 Operating voltage 230 V / 50 Hz
 Model Switch panel installation
 Protection IP 20
 Dimensions 96 x 48 x 104 mm
 Weight 0.3 kg



As versatile as required for international jobs



Worldwide weather partners

Climatic measurement and intelligent analysis are international tasks. They do not only demand a worldwide cooperation of the responsible authorities, but also a comprehensive network of sensors and analytical systems.

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THIES assumes complete supervision of the task at hand, from project planning to the installation of the system, from staff training to the processing of the measurement results.

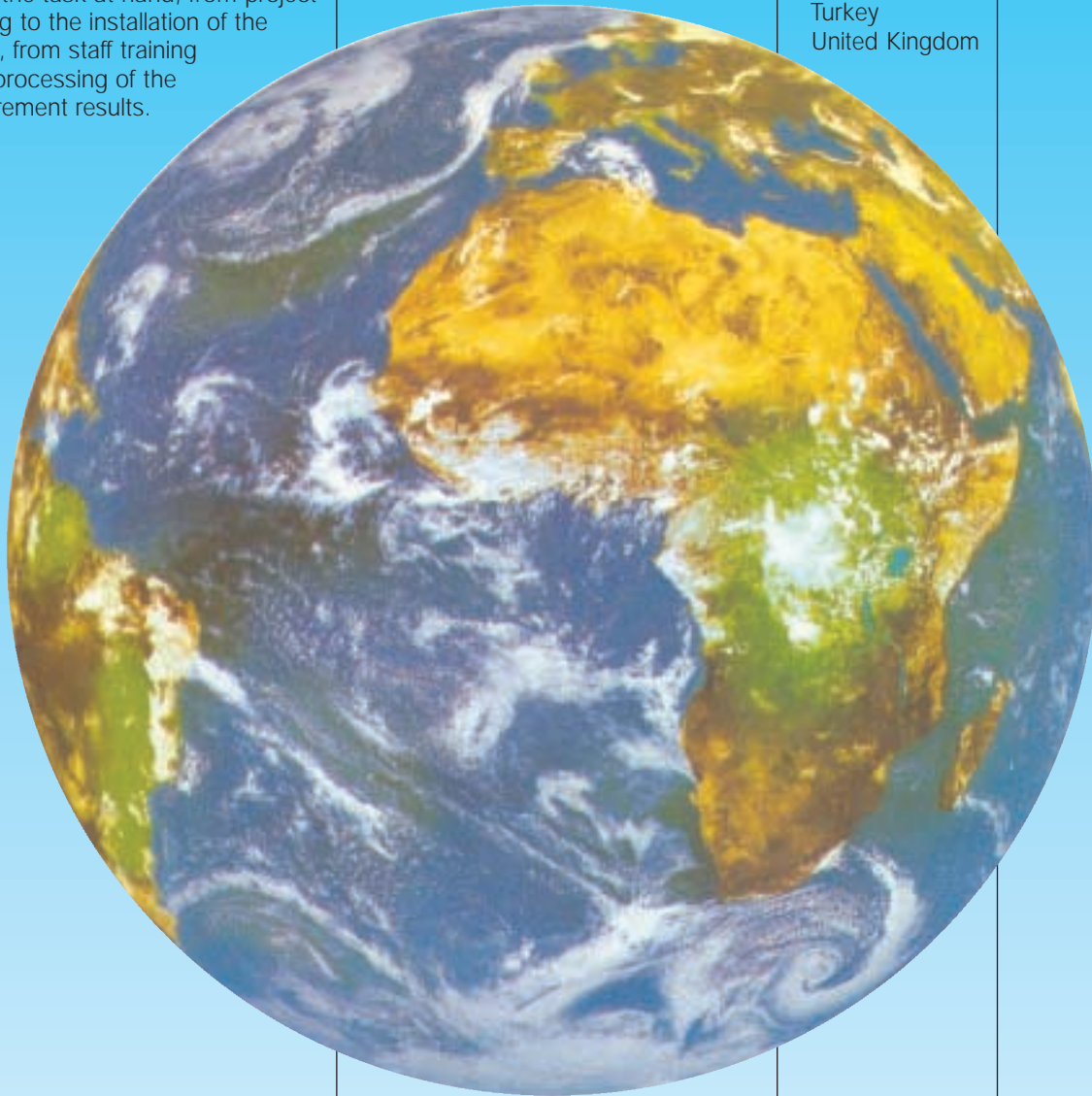
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Part #	Description	\$Cdn	\$US
7.1044.10.0XX	DIGITAL INDICATOR FOR PANEL INSTALLATION	\$966	\$724
7.1044.11.0XX	DIGITAL INDICATOR FOR PANEL INSTALLATION	\$966	\$724
7.1084.00.0XX	TRANSDUCER SH 40/41/61	\$690	\$517
7.1084.10.0XX	TRANSDUCER SH 40/41/61	\$621	\$466
7.1184.00.0XX	TRANSDUCER SH 40/41/61	\$690	\$517
7.1184.10.0XX	TRANSDUCER SH 40/41/61	\$621	\$466
7.1400.10.000	SUNSHINE RECORDER	\$2,322	\$1,742
7.1405.10.000	SUNSHINE RECORDER	\$2,322	\$1,742
7.1414.10.0XX	BRIGHTNESS TRANSMITTER 40/41/61	\$447	\$335
7.1414.12.0XX	BRIGHTNESS TRANSMITTER 40/41/61	\$447	\$335
7.1414.15.0XX	BRIGHTNESS TRANSMITTER 40/41/61	\$447	\$335
7.1414.22.0XX	BRIGHTNESS TRANSMITTER 40/41/61	\$500	\$375
7.1414.51.000	BRIGHTNESS TRANSMITTER	\$596	\$447
7.1415.00.000	RADIATION TRANSMITTER	\$3,504	\$2,628
7.1415.00.100	AMPLIFIER	\$579	\$435
7.1415.01.000	PYRANOMETER CM 11	\$4,201	\$3,151
7.1415.01.121	SHADOW RING CM 121	\$5,031	\$3,773
7.1415.01.400	SOLAR SENSOR AMPLIFIER CT24	\$878	\$658
7.1415.02.000	PYRANOMETER CM 6 B	\$2,847	\$2,135
7.1415.03.000	PYRANOMETER CM 3	\$1,342	\$1,006
7.1415.08.000	PYRANOMETER SP-Lite	\$765	\$574
7.1415.09.0XX	PYRANOMETER GSM 3.3 40/41/51/61	\$1,367	\$1,025
7.1415.10.000	RADIATION BALANCE TRANSMITTER	\$3,363	\$2,522
7.1415.20.000	PYRRADIOMETER	\$6,446	\$4,834
7.1415.25.000	ALBEDOMETER CM 7 B	\$5,663	\$4,247
7.1415.40.000	NET RADIOMETER NR LITE	\$2,483	\$1,862
7.1416.00.000	UVAB SENSOR S AB IRRADIANCE	\$13,669	\$10,251
7.1416.01.000	MOUNTING/ADJUSTMENT DEVICE	\$564	\$423
7.1416.10.0XX	UVAB SENSOR E 1.1 40/41/51/61	\$4,687	\$3,516
7.1416.20.040	UVB - SENSOR E 1.c 40/41/51/61	\$840	\$630
7.1417.00.000	HEAT FLUX PLATE	\$1,139	\$854
7.1418.00.0XX	SENSOR PAR 5.3 40/41/51/61	\$1,650	\$1,238
7.1420.00.000	SUNSHINE INDICATOR SDE	\$3,536	\$2,652
7.1421.00.000	SUNSHINE INDICATOR CSD	\$3,657	\$2,742
7.1421.00.001	SUNSHINE INDICATOR CSD HEATED	\$4,000	\$3,000
ACCESSORIES			
4.3185.00.00X	HANGER - 1 m	\$757	\$568
4.3185.01.00X	HANGER - 1 m	\$740	\$555
4.3185.02.00X	HANGER - 1 m	\$587	\$440
4.3171.30.000	TRAVERSE - COMPACT, 0,8 m	\$159	\$119
4.3171.40.000	TRAVERSE - COMPACT, 0,4 m	\$125	\$94
506347	HOLDER - COMPACT	\$88	\$66
506345	ADAPTER	\$123	\$92
205210	RECORDING CHARTS 1400/380	\$183	\$137
205213	RECORDING CHARTS 1405/380	\$183	\$137