

Model Brief

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.

Brightness Transmitter

Measuring instrument for the acquisition of the daylight intensity.

The electrical output can be used for the regulation of shading devices, heating- and irrigation plants.

The acquisition is carried out in the upper part (dome) of the instrument. The acquisition angle is ± 90 degrees.

The model with "heating" avoids a possible dewing on the dome

Brightness Transmitter

Measuring sensor for the acquisition of the brightness. It can be used for the regulation of shading devices, heating- and irrigation plants in automatically controlled green houses or as twilight sensor.

There are two analogue outputs available: output 1 offers different, selectable measuring ranges. Output 2 is used as fixed measuring range, particularly for the twilight range. The output signals can be delivered as voltage or current.

Order No.

7.1414.10.xxx
7.1414.12.xxx
7.1414.15.xxx
7.1414.22.xxx
.040
.041
.061

7.1414.40.002
.102

7.1414.51.150

Technical Data

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
 $\pm 3\%$ of m.r.
Spectral range
0.350 - 0.775 μm
Half angle
 $\pm 55^\circ$
Operating voltage
24 V AC/DC
Protection
IP 65
Dimensions
80 x 82 x 65 mm
Weight
0.15 kg

Without heating
With heating
Measuring range
0 - 100 000 lux
Electr. Output
0 ... 10 V DC
Spectral range
0.350 - 0.820 mm
Acquisition angle
elevation
0.....90°
azimuth
0...360°
Accuracy
 $\pm 2\%$ reference unit
Operating voltage:
electronics
15...28 V DC, 5 mA
heating
24 V AC/DC ($\pm 20\%$),
< 300 mA
Protection:
IP 65
Dimensions:
80 x 82 x 112 mm
(w x d x h)
Weight:
0.15 kg

Measuring range
0 - 150 000 Lux
Output1
0 - 100 000 Lux
programmable
0 - 50 000 Lux
0 - 10 000 Lux
Measuring range
Output 2
0 - 1000 Lux
Electr. output
programmable
0 - 20 mA (350 Ω)
4 - 20 mA (350 Ω)
0 - 10 V
Spectral range
0.350 - 0.820 μm
Accuracy
 $\pm 3\%$ of m.r.
Acquisition angle
elevation
0.....90°
azimuth
0...360°
operating voltage
15 - 36 VDC or
15 - 24 V AC
Temp. range
- 30 - + 70 $^\circ\text{C}$
Protection
IP 65
Cable
5 m long
Dimensions
 $\varnothing 70 \times 73$ mm
Weight
0.15 kg (w/o cable)

