

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 mr.

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 μm

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
- 30 - + 70 $^\circ\text{C}$

Temp. range
Protection
IP 65

Cable
5 m long

Dimensions
 $\varnothing 70 \times 73$ mm

Weight
0.15 kg (w/o cable)

