



## Fill Factory s.r.o.

Czech Republic

The **Iris** sensors are based on our mono/multi crystalline silicon solar cell. The standard measuring range is 0 – 1500 W/m<sup>2</sup>. The output signal is either current loop (4–20mA) or analog voltage in standard or customized range (e.g. 0 – 15, 0-100 mV). The on-board temperature sensor can be used for temperature compensation of output signal in micro-controller or other computer post-processing system.

The sensor is protected by cylindrical anodized aluminum case or ABS plastic and solar cell is encapsulated in standard long-live PV industry materials.

<b>Irradiation sensor Iris</b>	<b>Value</b>	<b>Unit</b>
Measuring range	0 – 1500	Wm <sup>-2</sup>
Spectral sensitivity (silicon cell)	380 – 1100	nm
Type of silicon cell	mono/multi	-
Sensor average accuracy *	±4	%
Field of view	179	°
Operating temperature range	-30 – 70	°C
<b>Output signal</b>		-
• <b>Current loop</b>	4 – 20	mA
Power supply	8 – 30	V DC
Programmable digital filter delay	0 – 30	s
Response time	<100	ms
• <b>Analog voltage signal</b>	0 – 15, 0-100	mV
Sensitivity	7 – 9, 50-70	µV/W/m <sup>2</sup>
Response time	<100	ms
<b>Physical dimension (Aluminium case)</b>		-
Dimension (diameter x height)	50 x 60	mm
Mouting (inner hole screw)	M8	-
Electrical connection	soldered ends	-
IP protection rating	IP 56	-
Casing	Aluminium, ABS	-
<b>Thermometers</b>		
• <b>Digital thermometer</b>		-
Type of communication	1 wire	-
Temperature range	-55 – 120	°C
• <b>Analog thermometer</b>		-
Type of temp. sensor	PT-100, PT-1000	-
Type of connection	3 wire, 4 wire	-



\*calibrated on sun simulator and outdoor comparison with Kipp&Zonen CMP11 (ISO secondary standard)

### Contact information and technical consultation

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