



## Second Class Pyranometers

Radiometer for solar irradiance measurement, according to ISO9060 and WMO No.8 (Part I, Chapter 7) standards. These sensors are classified as ISO 9060 Second Class. Lighter and more compact than higher class pyranometers, this sensor is a good compromise for basic meteorological, agrometeorological and solar energy applications. Data output of the model DPA973 is RS485 using Modbus RTU® or TTY-ASCII protocols.

Order numb.	DPA053 (1)	DPA863 (2)	DPA873 (2)
Output	$\mu\text{V}/\text{W}/\text{m}^2$	0/4÷20 mA	RS485
Protocol	-	-	Modbus RTU®, TTY-ASCII
Programmable data output	-	-	max., min., ave. (1÷3600 s)
RS485 protection	-	-	Galvanic insulation (3 kV, UL1577)
RS485 speed	-	-	1200÷115 kbps
Protection	-	Tranzorb and Emifilters	
Power supply	-	10÷30 Vdc	
Power consumption	0,5 W		
Maximum irradiance	2000 W/m <sup>2</sup>	0÷1500 W/m <sup>2</sup>	
Cable	L = 5 m	L = 10 m with connector	
Installation (on ø 50 mm pole)	Using DYA034 or DYA035 + DYA049	Using DYA034 or DYA035 + DYA049	
Data logger compatibility	M-Log (ELO007-008) R-Log (ELR515) E-Log (all models)	-	-

### Common features

Pyranometer	<i>Principle</i>	Thermopile
	<i>ISO 9060 Classification</i>	Second class
	<i>Spectral range</i>	305÷2800 nm
	<i>Uncertainty (daily totals)</i>	10%
	<i>Response time (T95)</i>	30 s
	<i>Operative temperature</i>	-40÷80°C
General information	<i>Housing</i>	Anodized aluminum
	<i>Recalibration</i>	Every 2 years

### Accessories

#### Order numb.

	<b>DYA035</b>	Tilt arm for Pyranometers
	<b>DYA032</b>	Arm for fixing DPA053 to DYA049 collar
	<b>DYA049</b>	Mast-mounting device for ø 45-65 mm pipe
	<b>DYA048</b>	Plate for levelling DPA053 on DYA035 arm
	<b>DYA120</b>	Radiation shield
	<b>DEA852</b>	Signal amplifier for Pyranometers Output: 0/4÷20 mA, 0/1÷5 V Power consumption: 10 mA+output Power supply 10÷30 Vac/dc. Requires DWAxXX cable
	<b>DEA854</b>	Same features as DEA852 Connection: free wires terminal
	<b>DWA510</b>	Cable L = 10 m
	<b>DWA525</b>	Cable L = 25 m
	<b>DWA526</b>	Cable L = 50 m
	<b>DWA527</b>	Cable L = 100 m
	<b>MG2251</b>	7 pin free female connector

