



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 ²	0÷1500 W/m ²	
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.	
	DYA035	Tilt arm for Pyranometers
	DYA032	Arm for fixing DPA053 to DYA049 collar
	DYA049	Mast-mounting device for ø 45-65 mm pipe
	DYA048	Plate for levelling DPA053 on DYA035 arm
	DYA120	Radiation shield
	DEA852	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
	DEA854	Same features as DEA852 Connection: free wires terminal
	DWA510	Cable L = 10 m
	DWA525	Cable L = 25 m
	DWA526	Cable L = 50 m
	DWA527	Cable L = 100 m
	MG2251	7 pin free female connector

