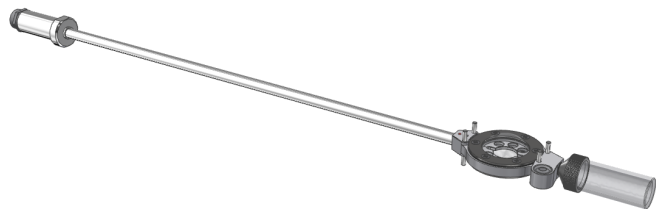


Net radiometer



- ▶ Net radiation measurement. Net between the radiation coming from the sky and radiation from the ground (reflected and emitted) within 0.3...50 μm wave band
- ▶ Based on thermopile technology, assuring fast response time and low sensibility to the wind speed which is the main issue for other technologies as "black-body" radiometers
- ▶ Versions with μV output and 4...20 mA
- ▶ Accessories for RS485-Modbus RTU output from DPA240 and PRRDA0100A model

Net radiometers are sensors for measuring net radiation, i.e. the difference between the incoming sun and sky radiation and the ground-reflected short-wave and ground-emitted long-wave radiation. The primary sensitive element is a high sensitivity thermopile.

Technical Specifications

PN	DPA240 PRRDA0100A	DPA840 PRRDA0130
		
Output	$\mu\text{V}/\text{W}/\text{m}^2$	0/4...20 mA
Power supply	-	10...30 Vac/dc
Power consumption	-	<0.4 W
Max. load	-	300 Ohm
EMC	-	EN 61326-1: 2013
Range	-1500...1500 W/m^2	-150...1500 W/m^2
Cable	L=10 m	7 pin IP65 watertight connector
Installation (on $\varnothing$ 50 mm pole)	DYA031 bar + DYA049 collar	DYA049 collar
Calibration certificate	Included	Not included (SVICA4101)

Common Technical Specifications

Pyranometer	Principle	Thermopile
	Spectral range	0.3...50 μm
	Accuracy	5% daily

General Information	Housing	Plated brass and Aluminum
	Recalibration	Every 2 years
	Protection grade	IP66
	Operative Temperature	-40...80°C
	Compatibility with data loggers	M-Log (ELO008), R-Log (ELR515.1), E-Log, A-Log using ALIEM module

Accessories

	DYA049	Mast-mounting device for Ø 45...65 mm pole
	DYA031	Arm for fixing DPA240 and PRRDA0100A to pole Ø 45...65 mm. DYA049 required
	DWA505A	Cable L= 5 m for DPA840 and PRRDA0130
	DWA510A	Cable L=10 m for DPA840 and PRRDA0130
	DWA525A	Cable L=25 m for DPA840 and PRRDA0130
	DWA526A	Cable L=50 m for DPA840 and PRRDA0130
	DWA527A	Cable L=100 m for DPA840 and PRRDA0130
	MG2251.R	7 pin free female connector for DWA5xx cable
	DPA291	Spare part: domes for net radiometer (N.5 couples)
	DPA295	Spare part: salt cartridge
	DEA420.1 DEA420.2	Signal amplifier for Pyranometers. Output: 4...20 mA Programmable pyranometer sensitivity ($\mu\text{V}/\text{Wm}^2$) Power supply 10...30 Vac/dc For more technical information, see MW9008 catalogue
	SVICA4101	Calibration certificate ISO9001 type (Net radiation)