

PlantPen PRI 210

Handheld reflectance meter with integrated GPS module, USB/Bluetooth communication and dedicated software. Measured parameter: PRI index.

The PlantPen PRI 200 measures Photochemical Reflectance Index in two narrow wavelength bands centered close to 531 nm and 570 nm. PRI is sensitive to changes in carotenoid pigments that are indicative of photosynthetic light use efficiency, the rate of carbon dioxide uptake, or as a reliable water-stress index. As such, it is used in studies of vegetation productivity and stress.

- 1 year parts and labour warranty
- 2 x 8 LCD Display
- Sealed 2-key tactile response keypad
- Keypad escape time, turns off after 3 minutes of no use.

Rugged and compact PlantPens can be favourably used in the field, in the plant biology lab, or for education. A handy leaf clip, simple two-button operation, and a bright display make the PlantPen an easy-to-use instrument that does not disturb investigated plants (no leaf detaching or damaging). It takes four AAA alkaline batteries and is supplied in a robust case.



PRI 210 PlantPen is a reflectance-based device providing a convenient, low-cost method of measuring the relative chlorophyll content of a leaf sample. PlantPen measures and calculates particular reflectance indices to assess chlorophyll content, photoprotecting carotenoids, and other important features in live foliage.

There are two models available:

The PRI 210 measures Photochemical Reflectance Index in two narrow wavelength bands centred close to 531 nm and 570 nm.

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PlantPen Version

- Standard PlantPen PRI 210 measures Photochemical Reflectance Index
- USB, Bluetooth and GPS

Additional Options

- Mini computer
- Battery charger
- Transport case

Software

- FluorPen 1.0 Software (Windows 2000, XP, or higher compatible)*
- Bluetooth communication
- Visualisation and data transfer routines to Microsoft Excel
- Real-time and remote control functions
- GPS mapping plug-in



Specifications

Measurement Parameters

PRI (Photochemical Reflectance Index)	$(R_{531} - R_{570}) / (R_{531} + R_{570})$
Light	Internal dual wavelength light source $R_{531} = 531 \text{ nm}$, $R_{570} = 570 \text{ nm}$
Detector Wavelength Range	PIN photodiode with 500 to 600 nm bandpass filters
Data	
Internal Data Logging	More than 100 000 data points
Memory Capacity	Up to 16Mb
Operating Conditions	
Temperature	0 to 55°C
Relative Humidity	0 to 95% (non condensing)
Storage Conditions	
Temperature	-10 to + 60°C. Relative humidity 0 to 95% (non condensing)
Power	
Power supply	4 AAA alkaline or rechargeable batteries
Battery Life	48 hours typical with full operation Low battery protection
Dimensions	
Size	Length 170mm Width 57mm Height 30mm
Weight	180 g

