

HHRFG

Handheld radio frequency gauge

For moisture determination of solid materials.



The HHRFG unit is a lightweight handheld unit that uses the dielectric property of water to determine the moisture content within a solid material. The moisture display will change as antennae on the device's underside make contact with "board" of varying moisture content. As RF energy penetrates the bulk material, non equilibrated product is not a problem for the HHRFG.

Description

The HHRFG is the most recent handheld RF gauge to reach the market. PSC has addressed the drawbacks of conventional RF handheld devices and in launching the HHRFG combines practical design with simple operation through the intuitive User Interface.

The HHRFG weighs less than a quarter of previous handheld devices, is easy to maneuver and is both shatterproof and spray proof. The device is extremely simple to operate and has 5 hours constant usage between battery recharges

Up to 10 user calibrations can be stored for rapid switching between different products, and measurement can be carried out either in the Standard or Averaging operational mode. In the latter mode, average moisture % over a user-defined sampling interval is displayed. The last 20 averages are stored in the device's volatile memory.

Specifications

HHRFG is supplied together with a battery re-charger and a Phenolic Standard block.



Rear view of HHRFG

HHRFG	
Measured constituent	: Moisture
Depth of RF penetration	: Up to 25mm
Accuracy/Repeatability	: +/- 1% of measurement range
Repeatability	: +/- 1 L.S.D
Calibration Codes	: 10 Standard
Damping (std. mode) or averaging interval (av. Mode)	: User selectable, ≥1 sec.
Power	: Rechargeable NiMH battery
Outputs	: USB connectivity to be implemented soon
Weight	: 418g
Unit Dimensions	: 186 x 106 x 70mm
Operating Temperature	: 10-50°C
Enclosure	: Polyamide IP65
Display	: 61 x 14mm PLED (5 x 3mm character display)

