

Field Digital Color Reader (DCR)

About the Field DCR (Green Case)

The Solvita Field Digital Color Reader is a portable unit. It reads Solvita soil probes (Low-CO₂) intended for the application of measuring microbial respiration in fresh field soil. The LCD screen reports results which include the precise color number which matches the visual Soil color chart and respiration output determined from the optical response. It is powered by a 9-volt battery or alternatively is USB powered when plugged into a computer by a mini-USB cable.

Operating the Field DCR

The Solvita Field DCR is simple to operate. Prepare your soil sample and follow the procedures for sampling included in your Solvita Field Test manual. At the end of the required time (24 hours in most cases) turn your DCR on using either the **Power Switch** on the side, or by plugging it into a computer using the **Mini USB Port**. Remove the probe from the jar. With the gel side up, insert the probe into the **Probe Slot** making certain to keep the probe level and push it all the way in. With the probe inserted into the DCR, press the **Read Button**. Read the output on the **LCD Display**. It will display a Solvita Color number as well as the CO₂-C in either lbs/a (pounds per acre) or kg/ha.

English/Metric: You can switch between lbs/a or kg/ha by pressing and holding down the Read button *for 15 seconds*. Turn the DCR off and back on and it will read in the units you switched to. When you are done with your readings, make sure to turn the DCR off if you are operating with the battery.

