The use of the Sensor SM100 in measuring the effectiveness of climate change adaptation practices for coffee (soil moisture)

Measurement tool: Sensor SM100

Make and model: Spectrum – SM100

Description: The SM100 is a tool developed to measure the volumetric percentage of water in the soil (VWC) by means of reflectrometry, thereby generating instantaneous readings. It has a storage facility to allow multiple readings and software to perform data management. Another accessory is reader that displays the data as well as storing it. It has a flat tip that allows its insertion to the desired depth. It can be used at a fixed location (useful for humidity curves) or can be portable.

Use in agriculture: The SM100 can provide relevant information on the volumetric percentage of water in the soil, which is essential for making decisions on how to preserve/increase soil moisture, whether by using shade, soil covers or others (e.g. polymers).

Data generated: % Volume of water in the soil (VWC). It is important to use the table provided to take into account the type of soil.

Use of the SM100 in coffee growing:

SM100	Use of the SM100 in coffee (with and without Brachiaria cover)