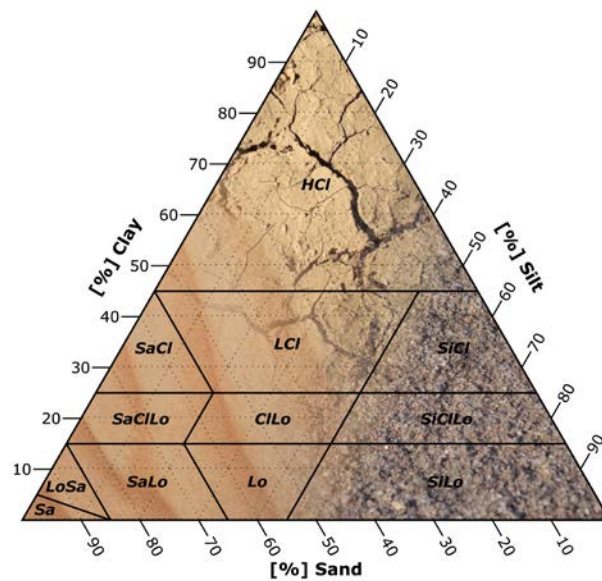


# RemScan<sup>®</sup>

by Ziltek

## Rapid Measurement of Soil Texture Class and Granulometry



## Features and Benefits

RemScan is a hand-held instrument for the rapid measurement of Soil Texture Class and Granulometry.

RemScan measures Granulometry in terms of [%] Sand, [%] Silt, [%] Clay and the Texture Class according to the International Union of Soil Science (IUSS).

The user simply holds the RemScan against the sample, then presses and releases the trigger for an accurate measurement in less than 20 seconds. The data is recorded automatically on a Tablet for easy download.



## Benefits

- Enables high resolution mapping for better agriculture
- Make real-time decisions with confidence
- Maximise productivity of staff and equipment
- Reduce laboratory analysis costs
- No specialist training required
- Use over large area
- Objective and repeatable measurements
- Immune from operator error



## Features

- 15-30 second measurement time
- Direct infield measurement or in an onsite laboratory
- Sample ID, GPS, depth, photo and notes logged with each measurement
- Minimal sampling preparation and handling required
- No sample extraction required
- No incremental costs
- Non-destructive
- No chemicals
- No licensing requirements




## Specifications

RemScan is supplied with the soil texture calibration according to International Union of Soil Science (IUSS) and/or Australian standards.



### Key Specifications

- RemScan is a unique instrument that measures Soil Texture Class and Granulometry. No other instrument provides the same level of accuracy, repeatability and ease of use for this application.
- RemScan measures Granulometry in terms of [%] Sand, [%] Silt, [%] Clay and the Texture Class according to the International Union of Soil Science (IUSS).
- Easy to standardise in the field – 1 minute background cap, 1 minute reference cap (both are inert materials so no need to carry calibration gases or hazardous chemicals).
- Soil readings in less than 30 seconds.
- Throughput - high rate of up to 120 measurements/hour can be achieved but typically about 60 measurements/hour.
- It makes a direct soil measurement.
- Minimal soil preparation required – requires a flat compacted soil face of around 10mm diameter (trowel and tamp normally sufficient) with an air dried surface.
- Measures the soil surface only – anywhere you can collect a soil sample, you can take a scan (including along soil cores).
- Truly portable and rugged – it is not a laboratory instrument.
- Intrinsic Safety - Not Intrinsically Safe (non-explosion proof).
- Operated through a purpose-designed user interface on a Tablet.
- Battery life – 8 hours for Tablet and 4 hours per battery for instrument (comes with 3 batteries) for full day field usage.
- Data accessible as a .csv file
- Operating temperature: 0 to 50°C (32 to 120°F)
- Storage temperature: -25 to 75°C (-13 to 167°F)
- Humidity: 95% non-condensing
- Power Supply: 100-240V AC 47-63Hz

## Software Add-Ons

TPH APPLICATION	
	<ul style="list-style-type: none"> <li>A TPH calibration model is available as an add-on to soil texture model and can be used in unison with the Soil Texture app whilst scanning.</li> </ul>

## Accessories

LAB STAND	
	<p>The lab stand is useful for:</p> <ul style="list-style-type: none"> <li>Many samples are to be measured in a site hut (as opposed to in the field). This may be because the soil samples are very wet and need air drying in the hut or because conditions are too inhospitable in the field (too hot or too cold) for personnel to work for long periods.</li> </ul>
TRIPOD WITH TABLET CRADLE	
	<p>This Tripod with Tablet cradle has been specifically designed to free-hold the RemScan Tablet.</p> <p>It is lightweight and fully adjustable.</p> <p>Specifically designed for field use, but can be utilised in any work environment.</p>
BACKPACK	
	<p>This is used to transport RemScan around the field and enables operator to carry RemScan around a large site. It has cut-outs for all equipment that may be required in the field.</p>
PORTABLE DRYING UNIT	
	<p>Used for rapid in-field drying of samples and can dry 35 samples at a time within a maximum time period of 30 minutes. Comes complete with all accessories. Extra accessories for higher throughput available upon request.</p>