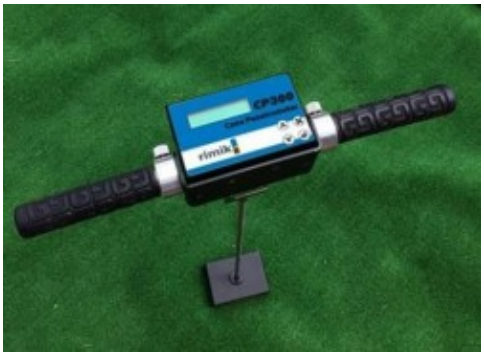
CP300 Cone Penetrometer

The RIMIK CP300 is a mid level instrument capable of accurate and easy collection of cone-index data. The RIMIK CP300 is an essential tool for more intensive soil studies involving compaction, trafficability and moisture distribution.

The RIMIK CP300 incorporates many of the features of its big brother, the CP40II, but has a smaller, non-graphical display, smaller memory, and does not have GPS capability. What it DOES offer is ultra sonic depth sensing, NiMh rechargeable batteries, internal logging, and USB connectivity, all in a small lightweight enclosure with stainless steel shaft and cone. The shaft is the same two-piece unit included in on all current penetrometer models. The RIMIK CP300 is stored in an easy to carry, durable, fitted case.



The RIMIK CP300 Cone Penetrometer is used to measure soil density and hardness where a research level study of the data is required. It has been designed for use by those who require data to conduct transverse analysis and low level spatial variation of known locations. It measures and records cone index values based on the load required to force a cone through the soil. The instrument will record profile data to a maximum depth of 750mm.

The instrument is designed to measure soil pressures up to 9800KPa at a resolution of approximately 20KPa. Like all of our cone penetrometer instruments it conforms to ASAE S313.3 feb99.

Up to 500 full depth insertions may be recorded and stored in memory. Profile results can be viewed on the LCD screen or downloaded to a computer via the serial port and with the use of the RIMIK Penetrometer Reader Software.

This instrument can be user configured to operate in metric or imperial mode. The menu structure also allows the user to preselect any of four (4) depth intervals and to preselect any of six (6) cone sizes. Data can also be "Grouped" by nominating a group size (up to 500) prior to taking any set of insertions. The RIMIK CP300 can be purchased with either or both the ASAE or EURO cone kit.

Full profile data is output following each insertion via the USB port. With a wired connection to a device (e.g. laptop) with a Windows 7 or above operating system, the user can observe each insertion immediately in graphical format via a "Listen" function within the Rimik Penetrometer Reader Software.

Alternatively, download the data later and modify meta data with additional inputs such as GPS readings. The software can present your data in metric or imperial format and provides a number of additional features; data selection within graphical presentations, graphical averaging, axis flip and export functions to name a few.

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Specifications

Assembled Weight:	2.65kg
Packed Weight including case:	4.4kg
Assembled Dimensions:	431 x 1063 x 85mm
Case Dimensions:	448 x 362 x 110mm
Max 130mm^2 ASAE Cone Index:	7500kPa, 100kg
Max 100mm^2 EURO Cone Index:	9800kPa, 100kg
Cone Kit ASAE:	130 & 323mm^2 @ 30° Face Angle
Cone Kit EURO:	100, 200, 330 & 500mm^2 @ 60° Face Angle
Resolution:	0.25kg (~20KPa)
Shaft size (diameter):	9.53mm
Maximum Insertion Depth:	750mm
Interval Spacing:	10, 15, 20 or 25mm
Memory Capacity:	500 insertions
Operating Temperature:	10 to 75°C
Baud Rate/Download Speed:	9600bps
Screen Resolution (characters):	2 x 16
Battery Life:	2800mAh