

**K-2 MAGNETIC SUSCEPTIBILITY METER
OPERATIONS MANUAL**

Scintrex Limited
222 Snidercroft Road
Concord, Ontario, Canada
L4K 1B5

Tele: (416) 669-2280
Cable: Geoscint Toronto
Telex: 06-964570
Fax: (416) 669-5132

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K-2 OPERATION MANUAL

1.0 STARTING

Your K-2 instrument comes shipped to you set up to read in 10^{-6} CGS units. This can be checked by turning on the unit (press and release the power switch once). The decimal point in the middle of the display will come on to indicate that power is on. Next, the display should show "PP.P0" for one second and then disappear. The "0" in the right most digit indicates that on power-up, the unit was set to read in 10^{-6} CGS units. If the display showed "PP.P1" then the "1" in the right most digit indicates that on power-up, the unit was set to read in 10^{-5} SI units.

The default units of measurement can be changed by a very simple procedure, see section "CHANGING READING UNITS".

2.0 SINGLE READING MODE

THE K-2 UNIT SHOULD BE ALLOWED TO STABILIZE FOR 15 MINUTES AFTER IT IS TURNED ON. Once the unit is on and showing a decimal point, zero the unit by pressing and releasing the zero switch, the display should show "00.00" for one second. Press and release the zero switch once more, the display should show "00.00" for one second. The unit is now zeroed.

If you press and release the read button, the display should show "1." followed by ".00". If it does not, then repeat the zeroing procedure.

For sample readings, press and release the read button. The display will show "1." for one second followed by a 2-digit display with the reading (e.g. "XX." or "X.X" or ".XX"). Any number of readings can be taken until either the mode is changed or an error condition occurs. See "ERROR CODES" section.

3.0 AVERAGE MODE

Once the unit is on and showing a decimal point, zero the unit by pressing and releasing the zero switch, the display should show "00.00" for one second. The unit is now zeroed.

Press the read button. The display will show "1," for one second, followed by a 2-digit display for one second, followed by another 2-digit display which stays on. The first display is the sample number and will display from "1." to "10.". The second display is the reading you just requested and the third display (the one that stays on) is the average of all the readings you have taken (up to 10 readings).

The unit should be zeroed after taking 10 readings. If you try to take another reading, the display will show "EE.EE", the unit must now be zeroed.

4.0 READING

The front of the sensor housing (opposite end from the display) is the reading surface and should be placed against the core or rock you are measuring.

5.0 SHUTTING DOWN

To shut off the unit, press and release the power switch. The unit is off when the display is clear (no decimal point showing).

6.0 CHANGING THE BATTERY

When the battery becomes depleted, the display will show "11.11" and all functions will be suspended until the unit is turned off and the battery is changed.

To change the battery, open side compartment by prying up on the end furthest from the display.

Replace the battery with a 9V Alkaline battery only, similar to Mallory #IND 1604.

Close the door by pushing on the black button.

The action of replacing the battery will usually turn the instrument on, so check the display and turn it off if it comes on.

If the unit is not going to be used for an extended period of time, the battery should be removed from the K-2 unit.

7.0 CHANGING READING UNITS

Remove the 6 screws from the bottom of the K-2. With the unit upside down, pull the bottom straight up and off. On the left hand side with the display facing you, you will find a slide switch. Move this to point to either $10'' \times 10^{-6}$ CGS" or 10×10^{-5} SI" units. Put the bottom back on and replace the 6 screws.

8.0 ERROR CODES

- "LL.LL" - Low battery must be replaced.
- "EE.EE" - Error, unit must be re-zeroed.
- "HH.HH" - Reading too high for K-2 unit re-zero, and use a "STANDARD SPACER"
- "--.--" - Reading material negative to zeroing reference used when K-2 was zeroed. Re-zero K-2 unit.

9.0 UNIT CODES

"PP.P0" - K-2 unit reads in " 10×10^{-6} CGS units.

"PP.P1" - K-2 unit reads in " 10×10^{-5} SI" units.

"00.00" - K-2 unit is in process of being zeroed.

"12. ")

" 1.2 ") Normal reading displays (one 2-digits are used)

" .12 ")

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