TEST PROCEDURE (4 PIN METHOD):

Place four pins into the ground in a straight line. Connect all four cables from pins to RED and BLACK terminals on the SR-2 (spade or banana connection).
Move the Range Selector Switch counter-clockwise to the ***Start Here*** line.
Press and HOLD the ***PUSH TEST*** button.
Move the Range Selector Switch clockwise, pausing briefly (3 seconds) at each position of the switch.
When the LCD meter changes from 1_ _ _ ., you have found the correct range. Do not continue moving the Range Selector switch.

COLUMN A		COLUMN B		RESULT
PIN SEPARATION (m)	MULTIPLIER	PIN SEPARATION (m)	MULTIPLIER	
5 ft. (1.52m)	957.5	5.2 ft. (1.58m)	1000	(Range Selector) x (Display)
10 ft. (3.05m)	1915	10.4 ft. (3.17m)	2000	(Range Selector) x (Display)
15 ft. (4.57m)	2872.5	15.7 ft. (4.79m)	3000	(Range Selector) x (Display)
20 ft. (6.10m)	3830	20.9 ft. (6.37m)	4000	(Range Selector) x (Display)
25 ft. (7.62m)	4787.5	26.1 ft. (7.96m)	5000	(Range Selector) x (Display)
SOILBOX	1	SOILBOX	1	(Range Selector) x (Display)

(Multiplier)x(Range Selector)x(Display)=Ohm-cm

Formula =

ρ, Ω x cm =
2 π a R (a in cm) =
191.5 a R (a in ft)

Example Formula COLUMN A:
Using 5 ft. Pin Separation
Meter shows 37.9
Range Selector Switch
is in Ohm range

(957.5)x(1)x(37.9)= 36,289.25 Ohm-cm
or 36.289 K ohm-cm

Example Formula COLUMN B:
Using 10.4 ft. Pin Separation
Meter shows 0.39
Range Selector Switch
is in Kilohm range

(2000)x(1000)x(0.39)= 780,000 Ohm-cm
or 780K Ohm-cm

This formula is in accordance with:

- ASTM G57-95a (www.astm.org)
- Peabody's *Control of Pipeline Corrosion 2nd ed.* pg. 84, 105

Quick Troubleshooting:

Display shows all zeros and/or a negative number:

P1 and/or P2 have a bad connection with soil under test. Re-seat P1 and P2 pins a few inches away and repeat the test. It