

INSTRUCTIONS

EFP-2 Electric Field Probe



Items manufactured by companies other than Smith-Root carry the original manufacturer's warranty. Please contact product manufacturer for return instructions.

All Smith-Root, Inc. manufactured products are covered by a one year warranty.

Credit & Refund Policy: Customers returning equipment, in new condition, will be given credit within five days from the date of the return. A return authorization must accompany returns. Valid equipment returns include, but are not limited to, ordering incorrect equipment, funding deficits, and defective equipment returned for reimbursement. All returns are subject to a restocking fee and applicable shipping charges. The restocking fee is figured at 10% of the purchase price but not less than \$20.00. Customers receiving equipment in damaged condition will be referred to the shipping company for insurance reimbursement.

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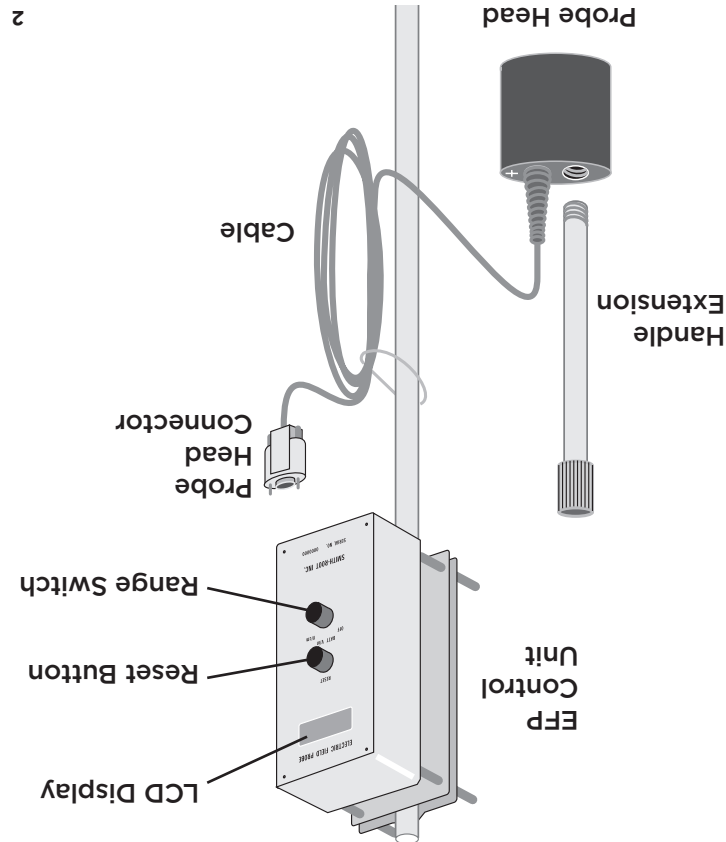


Rev. 07978.007



www.smith-root.com

07978.007 EFP-2 Instructions



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of the probe head with a +, plus mark.
The positive end of the probe is marked on the top
be measured simply turn the probe 180 degrees.
measure positive fields. If a negative field needs to
reading. The probe is polarity sensitive. It will only
old reading and prepares the unit to make a new
per second. Pressing the reset switch clears the
drop with time at a rate of approximately 1 millivolt
per inch or volts per centimeter. The readings
selecting the units of measurement, either volts
turned on and off as well as testing the battery and
front panel function switch allows the probe to be
produced by electrofishers, and fish barriers. A
easy, accurate measurements of the electric fields
The Model EFP-2 Electric Field Probe allows fast,

EFP-2 OPERATING INSTRUCTIONS



INSTRUCTIONS

EFP-2 Electric Field Probe

To use the EFP-2 electric field probe follow the instructions below carefully.

1. Screw the 12 inch handle into the probe head, and if necessary screw a longer wooden or plastic telescoping handle onto the 12 inch handle. CAUTION: NEVER USE A METAL OR OTHERWISE ELECTRICALLY CONDUCTIVE HANDLE WITH THIS PROBE.
2. If desired mount the display / control unit on the handle of the probe.
3. Make sure the display / control unit is turned off, then attach the probe head to it via the cable provided.
4. Fasten the cable to the handle using electricians tape or similar method. Gather all excess cable near the display / control unit and tape it to the handle.
5. Check the battery voltage. It should be 7 volts or higher. If the battery is weak replace it with a new 9 volt battery by removing the 4 screws in the top of the display unit. When replacing the screws do not over tighten.

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6. Select the units you wish to make your measurements in. Either volts per inch or volts per centimeter.
7. Note that the probe head has a + plus mark on its top. When measuring electric fields rotate the probe to find the highest reading. This determines the polarity and direction of the electric field. This direction may vary with distance from the electrodes. Placing the probe in an electric field of opposite polarity will not damage the probe. It simply will not measure the field.
8. To take a reading place the probe head in the water and hold it as still as possible. Then press and release the RESET button on the display / control unit and take the reading. The reset button must be pressed prior to taking each reading. The EFP-2 will hold the last reading for several minutes or until the reset button is pressed or the unit is turned off.
9. When you have finished remember to turn the EFP-2 off to preserve your battery.

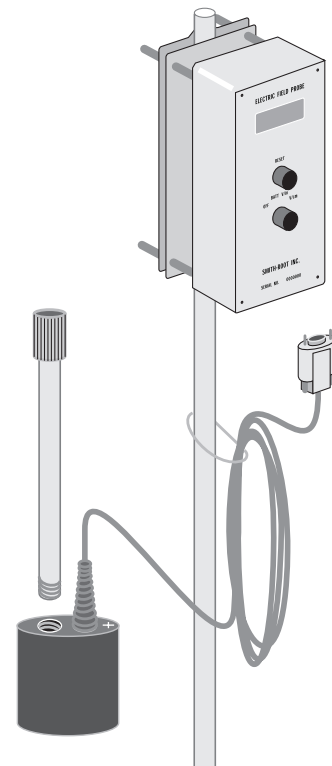
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SPECIFICATIONS

Max. field intensity 10 volts per inch	(3.94 volts per centimeter.)
Maximum frequency	13kHz
Minimum pulse width	75 microseconds
Reading decay rate	< 1 millivolt per second
Accuracy	+/- 5% of full scale.
Display	3-digit 0.5 inch high LCD
Battery	9 volt alkaline
Battery life	10 Hours continuous
Cable length	15 feet (4.57 meters)
Size Display / Control unit	2.25"H, 3.2"W, 6.6"L
	(5.72cm H, 8.13cm W, 16.76cm L)
Probe head	3.2"H, 1.38"W, 3.38"L
	(8.13cm H, 3.51cm W, 8.59cm L)
Weight Display / Control unit	9 oz. (0.255kg)
Probe head	1 lb (0.454 kg)

Specifications subject to change without notice.

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