

Alternate Location Adjustment Factor (2)

For 72 hour continuous recording.

Farm _____

Date _____

Address _____

Personnel _____

It may be necessary to establish an alternate animal contact measurement point at an adjacent location out of the path of normal animal or equipment flow.

This sheet establishes an adjustment factor to compare the desired location voltage and current with that of the alternate measurement location.

Set the actual floor contact device at the desired animal contact location and using a digital hand held voltmeter measure the open circuit voltage (V_{OC}) and the voltage across a nominal 500 ohm shunt resistor. The measurement will be taken between the animal contact point and the floor contact device.

Shunt resistor value with hand held voltmeter

$$R_{SHUNT} = \boxed{} \Omega$$

Record voltage measurements at the desired animal contact location:

Voltages measured: $V_{OC} = \boxed{}$ $V_{SHUNT} = \boxed{}$

Set the floor contact device at the alternate location where it will remain for the complete 72 hour recording. Using the same hand held voltmeter, make the following voltage measurements between the animal contact point and the floor device.

$$V_{OC\ ALT} = \boxed{} \quad V_{SHUNT\ ALT} = \boxed{}$$

Adjustment Factor (AF): Valid When $V_{OC} = V_{OC\ ALT}$

$$\text{Adjustment Factor (AF)} = V_{SHUNT} \div V_{SHUNT\ ALT} = \boxed{}$$