

# **VET SPECS® UNIVERSAL ECG ESOPHAGEAL PROBES**

## **INSTRUCTIONS FOR USE**

### **I. Use an appropriate sized probe**

The probe with Green Plate is for use in large sized dogs. The probe with Blue Plate is for use in medium sized dogs. The probe with Yellow Plate is for use in cats and small dogs. The probe with Red Plate is for use in rodents and lizards.

In order for the probe to register high-quality ECG, all three electrode rings must have a good contact with the esophagus. If the metal rings are too small for the patient, they will not be able to establish a good contact with the esophagus. Applying an inappropriate sized probe may produce erratic ECG and inaccurate heart rate.

### **II. Apply the probe to the patient**

After the patient has been anesthetized and intubated, estimate the depth of insertion by laying the probe on the patient. The distal and middle electrode rings should be positioned across the heart after inserted. Mark the probe at the mouth level with your hand, and then slide the probe into the esophagus to the estimated depth. Watch the screen of your monitor. If ECG is erratic and/or too small, adjust the depth of the probe until a stable and large ECG is registered. Motions induced to the patient or the probe may produce motion artifacts. If necessary, tie the probe to the endotracheal tube to minimize motions.

Do not use a probe which is damaged. When using the probes in electrosurgery, the patient must be properly grounded as instructed in the User's Manual for the electrosurgical unit (electro-surgery machine) being used.

### III. Connect the ECG leads to the esophageal probe

Compatible with all vital signs monitors of any brand, simply attach (clip on) the alligator clips on the ECG leads of your monitor to the three metal prongs on the probe.

If your monitor has three leads (RED, WHITE, and BLACK)

Attach the RED lead to the RED prong labeled "D".

Attach the WHITE lead to the WHITE prong labeled "M".

Attach the BLACK lead to the BLACK prong labeled "P".

If your monitor has four leads (RED, WHITE, BLACK, and GREEN)

Attach the RED lead to the RED prong labeled "D".

Attach the WHITE lead to the WHITE prong labeled "M".

Attach both the BLACK and the GREEN leads to the BLACK prong labeled "P".

If your monitor has five or more leads (RED, WHITE, BLACK, GREEN, and Brown)

Attach the RED lead to the RED prong labeled "D".

Attach the WHITE lead to the WHITE prong labeled "M".

Attach both the BLACK and the GREEN leads to the BLACK prong labeled "P".

Attach the BROWN lead to the BLACK prong, or do not attach it to the probe at all.

### IV. Maintenance

Clean the probes with a paper towel wet with alcohol after each use. Do not autoclave the probes or submerge them in liquid.

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