



Temperature sensors used in Vetronic Services equipment



Scope: This document is important when choosing the temperature probe type for the following equipment:

- Lightning Monitor
- Impact-III Monitor
- MiniTemp Monitor
- VitalStore Monitor
- Small Animal Oesophageal probe
- Equine Oesophageal probe
- Exotic Oesophageal probe

The most common type of temperature probe used in monitors today is the **400 YSI** type probe. This is an industry standard that has a 6.35mm (1/4") jack-plug connection and is to be found on many veterinary and medical monitoring machines.

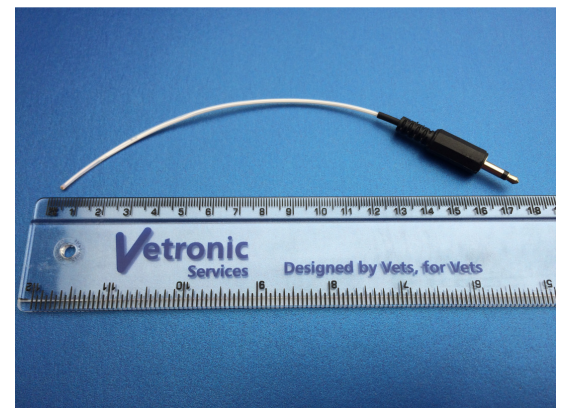


400-series probe

The thermistor (a resistor whose value varies with temperature) used in **400 YSI** probes has specified characteristics which are adhered to in all machines claiming **400 YSI** compatibility.

Because a lot of the temperature probes were designed and manufactured for the medical market the probe dimension of 5mm diameter does not pose a problem in use and is a convenient size for human use. The 5mm probe is also suitable for use in small and large animal veterinary work. However for small mammals, birds and reptiles the 5mm diameter is too large. For that reason Vetronic Services have developed their own temperature probes using a substantially smaller thermistor, measuring just 1.2mm diameter.

This probe is referred to as an **8415-series** probe.



8415-series probe

Because of the different characteristics, the 8415 and 400 series probes are **not** inter-changeable.

When purchasing Vetronic Services equipment please specify whether you would like the 400-series or the 8415-series probes. The 400-series probes are the most common. The temperature module in your equipment will then be configured for the appropriate type. A module can only support one type of probe.



Different probe types



400-series

We offer the following:



W0001B: An oesophageal or rectal probe which has a long connecting lead and a small 5mm tip



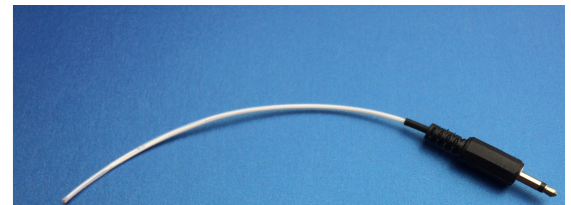
W0001A: A surface probe with a long connecting lead suitable for measuring under a heat pad or heat mat

Our Small animal and Equine oesophageal ECG and Temperature probes also use the 400-series thermistors, so these are compatible with our 400-series temperature modules and many other veterinary and medical monitors. Please note that for customers wishing to use Vetronic Services 400-series Oesophageal probes with non-Vetronic equipment, an adaptor will be required.

8415 Series

We offer the following:

VS0045: A short flexible probe with a 1.5 mm tip



VS0046: A short rigid probe with a 2.0mm tip



VS0060: An Oesophageal ECG and temperature probe for exotics



Note: All of the 8415 probes use an extension cable to connect to the host equipment.