CIRCA S-CATH™
Esophageal Temperature Monitoring System

CIRCA S-CATH™ M*
Visible with 3-D Mapping

*Pending 510(K) review. Not available in the United States.
Rapid, Responsive, Continuous Monitoring Software

Continuous monitoring software is highly accurate in both hot and cold (down to 0°C) temperatures.¹

- Four, user-selectable low and high temperature alarms
- Visual alarms for enhanced recognition
- Graphic and numeric temperature display
- Temperature log retains highest and lowest temperatures
- Conveniently record data for research

Stationary Placement

Sensor placement ensures proximity to the point of treatment; no need to move the probe once placed.

- Radiopaque shaft provides a visual landmark of the esophagus
- Indicates esophageal width and orientation
- Facilitates reduced use of fluoroscopy
Edge-to-Edge Coverage
During therapeutic procedures, esophageal temperatures can change quickly. The new and improved S-CATH provides faster, more accurate temperature detection.

- Soft, flexible self-expanding probe conforms to esophageal shape
- Proprietary sensor construction ensures rapid temperature transfer
- Delivers 240 data points per second; 12 temperature sensors update 20 times per second
The S-CATH, with its unique S-shaped design, deploys an array of 12 temperature sensors throughout the length and width of the esophagus, positioning sensors near the source of temperature changes. Independent research has shown that sensor distance has a great effect on temperatures recorded. ²³⁴

BETTER VISUALIZATION

S-CATH M* is designed for 3-D Mapping Systems

- Four electrodes allow imaging on impedance-based 3-D mapping systems
- Electrodes centrally located to facilitate proper placement using 3-D mapping systems
- Twelve-sensor array provides temperature coverage without need to reposition
**IN VIVO DATA**

Faster Detection

In an independent study of 198 applications in 10 patients, the S-CATH recognized an initial temperature rise of 0.2°C 17 seconds faster than a single sensor probe. (13.4±7.5 vs. 30.5±15.4 s; P, 0.001)

**BENCH DATA**

Earlier Detection of a 2°C Rise

CIRCA S-CATH vs. single sensor 9F esophageal probe simultaneous submersion in warm water bath, representing optimal sensor positioning. Test conducted by CIRCA Scientific.

**TIME (SECONDS) TO DETECT A 2°C RISE**

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<th>CIRCA S-CATH:</th>
<th>Single Sensor Probe:</th>
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Indications for Use: The CIRCA S-CATH and CIRCA S-CATH M Esophageal Temperature Probes are intended for continuous esophageal temperature monitoring during cardiac ablation procedures. The radiopaque probes are designed for placement in the esophagus. The CIRCA S-CATH M Esophageal Temperature Probe may be used to monitor electrophysiological signals. The CIRCA Temperature Monitor is indicated to display continuous temperature measurement (°C) from 12-sensor temperature probe for esophageal monitoring during cardiac ablation procedures.

1 Accuracy of the temperature sensors is ± 0.3°C within the rated output range of 25°C to 45°C and ± 0.4°C within the rated extended output range of 0°C to 24.9°C.


7 Internal data. Test conducted by CIRCA Scientific.