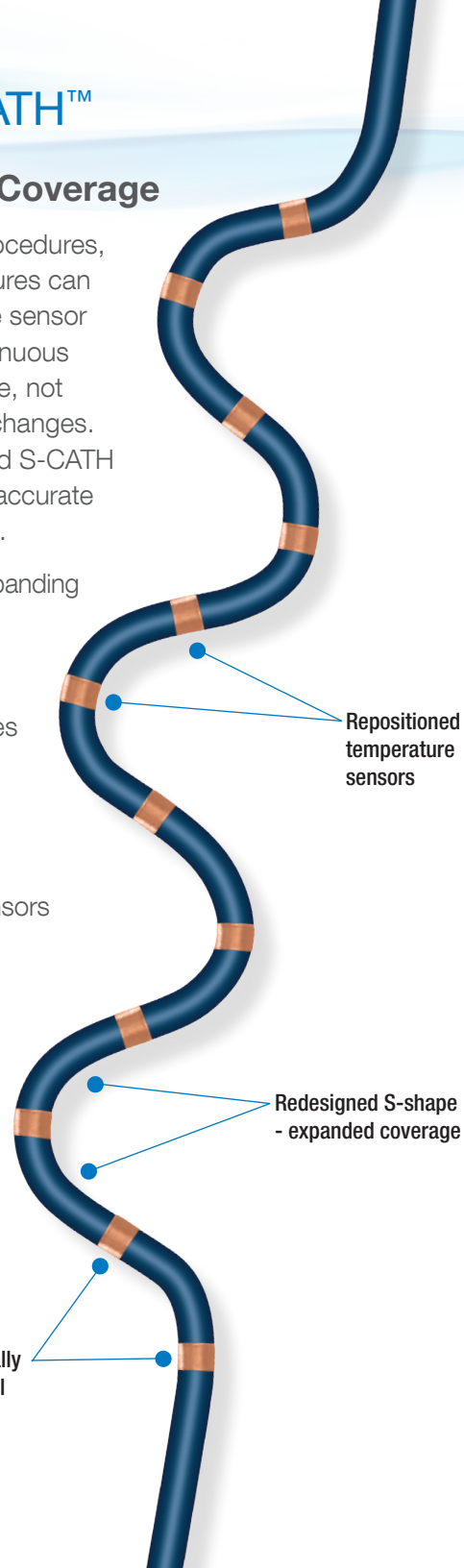


# CIRCA S-CATH™

## Edge-to-Edge Coverage

During therapeutic procedures, esophageal temperatures can change quickly. Single sensor probes measure continuous core body temperature, not sudden temperature changes. 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



Repositioned temperature sensors

Redesigned S-shape - expanded coverage

Pebax® coating electrically insulates - no bare metal

## Product Code Description

CS-1000	CIRCA Temperature Monitoring System™ (Touch Screen Display, Pole Mount Included)
CS-2001	CIRCA S-CATH™ Esophageal Temperature Probe (Single Use, 10Fr O.D., 10 units/Cartron) U.S.
CS-101	CIRCA S-CATH Interconnect Cable (Reusable, 15 Foot Working Length)
CS-1029	CIRCA Temperature Standard (Calibration)
CS-1083	USB Data-Transfer Drive



### Corporate Office

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This product is listed by CSA International as certified.

**Indications for Use:** The CIRCA S-CATH Esophageal Temperature Probe is intended for continuous temperature monitoring. The radiopaque probe is designed for placement in the esophagus. The CIRCA Temperature Monitor is indicated to display continuous temperature measurement (°C) from 12-sensor temperature probe.

<sup>1</sup> Accuracy of the temperature sensors is  $\pm 0.3^{\circ}\text{C}$  within the rated output range of  $25^{\circ}\text{C}$  to  $45^{\circ}\text{C}$  and  $\pm 0.4^{\circ}\text{C}$  within the rated extended output range of  $0^{\circ}$  to  $24.9^{\circ}\text{C}$ .

<sup>2</sup> Tschabrunn, CM, et al., Comparison between single- and multi-sensor oesophageal temperature probes during atrial fibrillation ablation: thermodynamic characteristics, Europace 2015 doi:10.1093/europace/euu356.

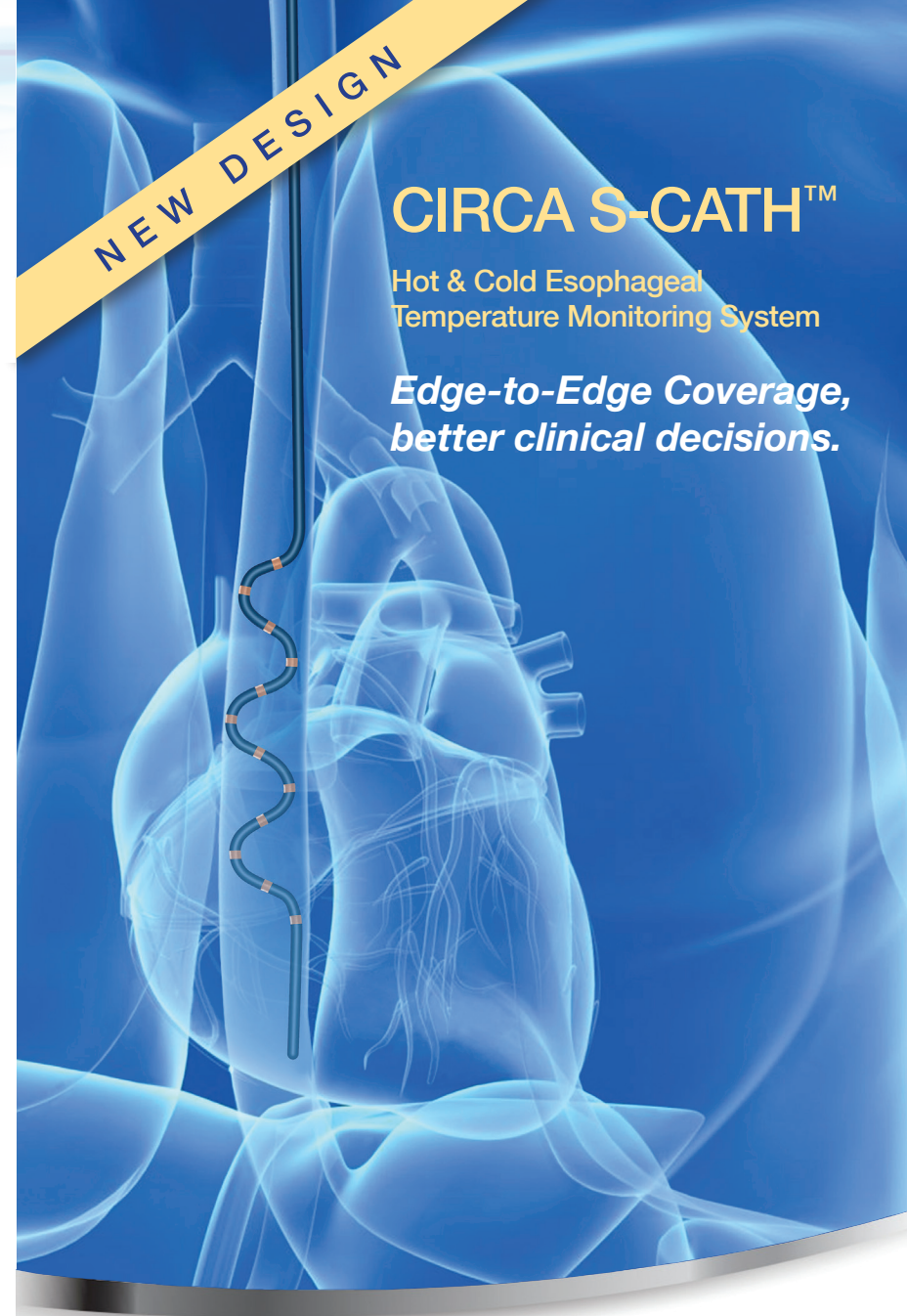
<sup>3</sup> In-house data. Test conducted by CIRCA Scientific.

**Caution:** Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.



U.S. Patents 9,155,476 B2 and 9,668,655  
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CS-ART2060 Rev. 03



NEW DESIGN

## CIRCA S-CATH™

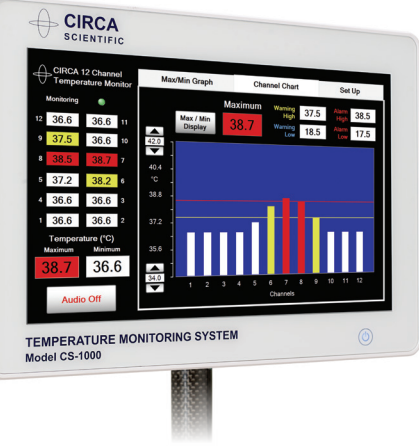
Hot & Cold Esophageal Temperature Monitoring System

Edge-to-Edge Coverage, better clinical decisions.



## Enhanced Software, Expanded Features

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

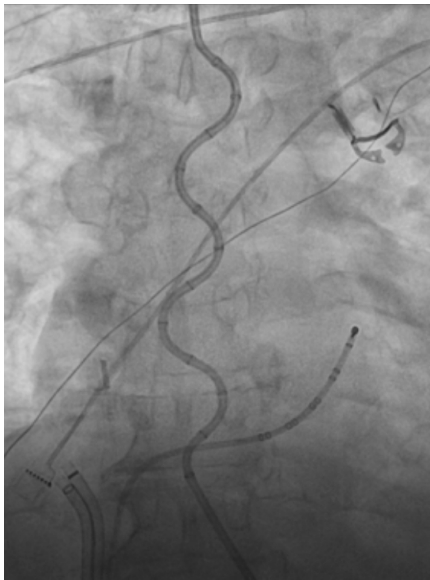


- Four, user selectable low and high temperature alarms
- Graphic and numeric temperature display
- Easy video output to a larger screen display
- Conveniently record data for research

## 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



## In vivo Data<sup>2</sup>

### 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)

**17 Seconds Faster**



### Initial Temperature Rise:

**CIRCA S-CATH: 17 Seconds Faster**  
Giving you time to respond

### Multiple Sensors

In the same independent prospective study of 198 applications in 10 patients, a temperature rise of >2.0°C was recorded 40 times by the S-CATH. Single sensor probes missed 90% of those temperature rises.

**Single Sensor Missed 90%**

### Temperature Rise >2.0°C Recorded:

**CIRCA S-CATH: 40**  
**Single Sensor Probe: 4**

## Bench Data<sup>3</sup>

### Faster to 38°C

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

**3X Faster**

### Time (seconds) to Reach 38°C

**CIRCA S-CATH: 2.4**  
**Single Sensor Probe: 8.2**

**Time to Reach 38°C**  
CIRCA S-Cath vs. Single Sensor Probe

