**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

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**Product Code Description**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-1000</td>
<td>CIRCA Temperature Monitoring System™ (Touch Screen Display, Pole Mount Included)</td>
</tr>
<tr>
<td>CS-2001</td>
<td>CIRCA S-CATH™ Esophageal Temperature Probe (Single Use, 10Fr O.D., 10 units/Carton) U.S.</td>
</tr>
<tr>
<td>CS-101</td>
<td>CIRCA S-CATH Interconnect Cable (Reusable, 15 Foot Working Length)</td>
</tr>
<tr>
<td>CS-1029</td>
<td>CIRCA Temperature Standard (Calibration)</td>
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<tr>
<td>CS-1083</td>
<td>USB Data-Transfer Drive</td>
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</tbody>
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**Corporate Office**

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**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 intended to display continuous temperature measurement (°C) from 12-sensor temperature probe.

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.


3 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.
**Enhanced Software, Expanded Features**

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
- 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 Data²**

**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](image)

**Initial Temperature Rise:**

<table>
<thead>
<tr>
<th>Monitoring System</th>
<th>Time to Reach 38°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCA S-CATH</td>
<td>17 Seconds Faster</td>
</tr>
<tr>
<td></td>
<td>Giving you time to respond</td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Monitoring System</th>
<th>Number of Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCA S-CATH</td>
<td>40</td>
</tr>
<tr>
<td>Single Sensor Probe</td>
<td>4</td>
</tr>
</tbody>
</table>

**Bench Data³**

**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**

<table>
<thead>
<tr>
<th>Monitoring System</th>
<th>Time (seconds) to Reach 38°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCA S-CATH</td>
<td>2.4</td>
</tr>
<tr>
<td>Single Sensor Probe</td>
<td>8.2</td>
</tr>
</tbody>
</table>

**Time to Reach 38°C**

CIRCA S-Cath vs. Single Sensor Probe

![Graph](image)