

MATRIX₁₂[™] M

Esophageal Temperature Probe

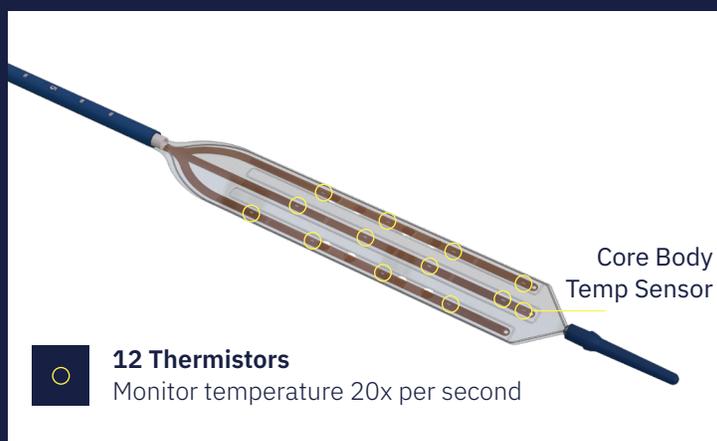
Comprehensive coverage. Unprecedented speed.
Expanded visualization on 3D cardiac mapping systems.



New GaplessGrid[™] flex-circuit provides unique visibility on 3D cardiac mapping systems displaying up to 18mm in width with the fastest temperature response time and broadest coverage in the industry.

Unprecedented Speed

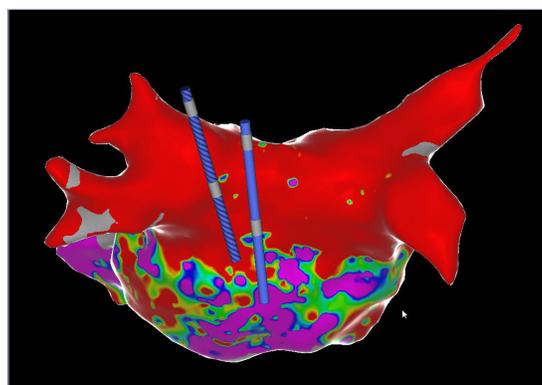
When temperatures in the esophagus rise and fall quickly, MATRIX₁₂ M detects these changes with unprecedented speed. Thermally-responsive, super thin copper GaplessGrid flex-circuit contains 12 surface mounted thermistors providing near-real-time detection of temperature changes.



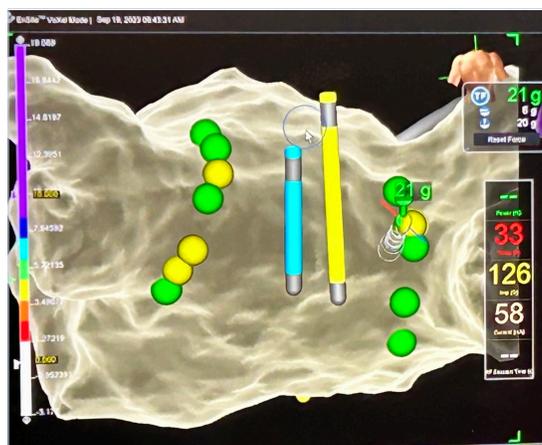
**Fastest
temperature
response in
the industry
3x faster than S-CATH[^]**

Expanded 3D Visualization

MATRIX₁₂ M changes the game by expanding visualization on 3D cardiac mapping systems. With four electrodes positioned on the outer legs of its GaplessGrid flex-circuit, MATRIX₁₂ M displays up to 18mm in width. The electrodes provide maximum visualization with 8 times less metal exposure than a 7-sensor probe.*[^]



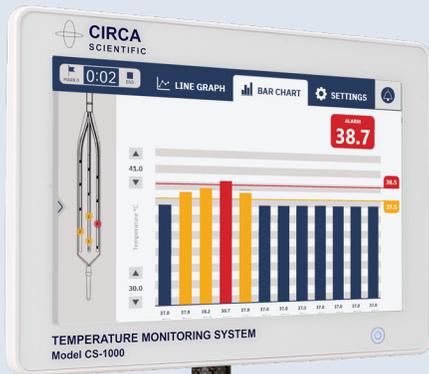
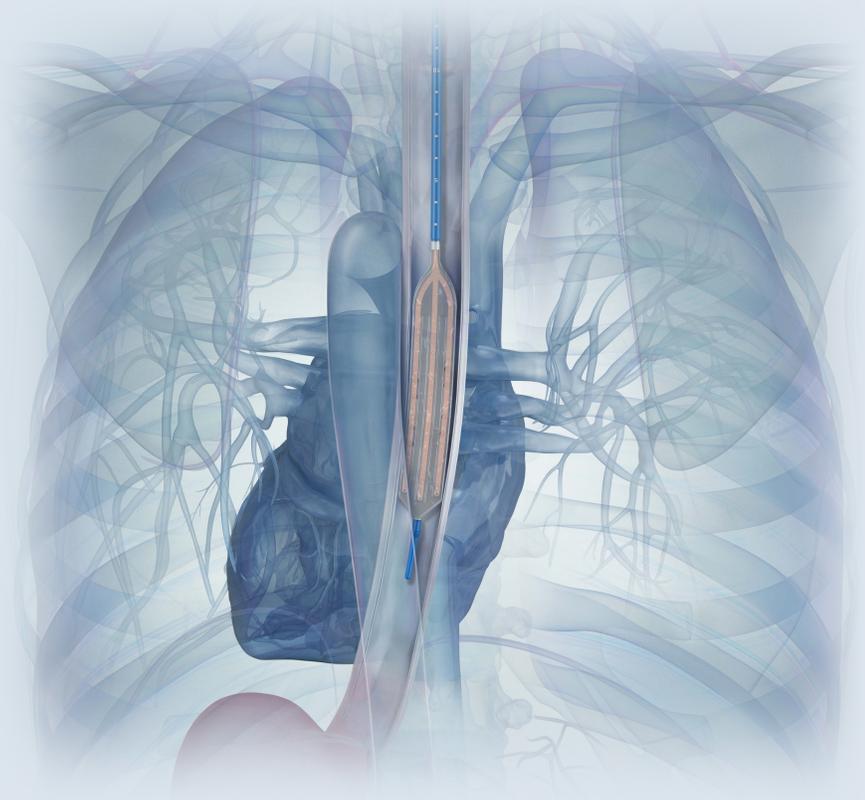
MATRIX₁₂ M on CARTO 3



MATRIX₁₂ M on EnSite X

Comprehensive Esophageal Coverage

Patented GaplessGrid flex-circuit provides the broadest esophageal coverage for procedural confidence over the entire target area. With an ultra-low profile and compliant construction, MATRIX₁₂ M facilitates easier deployment. The polyurethane sleeve provides electrical insulation, mitigating the risk of the RF Antenna Effect. ^



New Software Gen 3

The MATRIX₁₂ M technology utilizes the same CIRCA Scientific Temperature Monitor with an updated new-look software that includes many additional features, such as:

- Robust data recording
- Customizable user experience
- Optional monitoring features

To update your CIRCA Scientific Temperature Monitor software, contact your CIRCA Scientific representative at info@circascientific.com or call 303-951-8767.

Ordering Information

Product Code	Description
CS-3001	MATRIX₁₂ Esophageal Temperature Probe Single use, sterile, 14Fr. O.D., 10 units/carton
CS-31EP	MATRIX₁₂ M Esophageal Temperature Probe Visible on 3D cardiac mapping, single use, sterile, 14Fr. O.D., 10 units/carton
CS-1000	CIRCA Temperature Monitoring System Touch screen display, pole mount included
CS-103	CIRCA Temperature Cable Connects MATRIX to CIRCA Temperature Monitoring System, reusable, 15-foot working length
CS-100	CIRCA Mapping Cable Connects MATRIX to 3D cardiac mapping system, reusable, 15-foot working length
CS-104	CIRCA Temperature Standard For calibration, reusable

*28.8mm² vs 235.9mm²

^Internal testing data on file

Indications for Use: The CIRCA Temperature Monitoring System is composed of CIRCA Temperature Monitor and the MATRIX₁₂™ M Probe and is intended for the continuous detection, measurement and visualization (in °C) of esophageal temperature. The intended environments of use are operating rooms and interventional electrophysiology rooms. The CIRCA Monitor must be used in conjunction with the MATRIX₁₂™ M Probe. The role of esophageal temperature monitoring using this device in reducing the risk of cardiac ablation-related esophageal injury has not been established. The performance of the MATRIX₁₂™ M temperature probe and the CIRCA Temperature Monitoring System in detecting esophageal temperature changes as a result of energy delivery during cardiac ablation procedures has not been evaluated.

Rx Only 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 and 9,668,655

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CS-ART2123 Rev. 00

CIRCA Scientific's Esophageal Temperature Monitoring Products have been trusted in over 350,000 procedures worldwide.



**Comprehensive coverage.
Unprecedented speed.**



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SCIENTIFIC

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