

## Reusable Interface Cables

Reusable connecting cables provide the interface between the disposable temperature probes and the patient temperature monitor or hypo-hyperthermia machine. Each cable features a unique insert molded socket to which the insert molded connector (plug) from the temperature probe is mated to form a tightly sealed moisture resistant connection. The cables are approximately 3 meters (10 feet) in length freeing

up work space around the patient. To reduce “pull” on the sensor each cable is fitted with a linen clip to secure to patient bedding minimizing unintentional pulling/dislodgement of the probe during use. All cables are insulated and durable, providing secure transmission of temperature signal to the patient monitor and allowing for complete “wipe down” disinfection after each use.

### ORDERING INFORMATION

BOX QUANTITY: 10 per box

CATALOG NUMBER	DESCRIPTION
C400-MP-M	Standard 400 series thermistor cable
C400-P-M	HP/Philips 400 series Rifle shot thermistor cable

## Ordering Information and Cross Reference

Product	Size	Description	Starboard Medical	Smiths Catalog #	Vital Signs Catalog #	Nellcor/Covidien Catalog #	DeRoyal Catalog #
Esophageal Stethoscope	9F	Esophageal Stethoscope w/400 series thermistor 9F	4009-ES	ES400-9	1013	90049	81-040409
	12F	Esophageal Stethoscope w/400 series thermistor 12F	40012-ES	ES400-12	1010	90041	81-040412
	18F	Esophageal Stethoscope w/400 series thermistor 18F	40018-ES	ES400-18	1011	90042	81-040418
	24F	Esophageal Stethoscope w/400 series thermistor 24F	40024-ES	ES400-24	1012	90043	81-040424
General Purpose Probe	9F	General purpose Probe w/400 series thermistor 9F	4009-ER	ER400-9	1016	90050	81-020409
	12F	General purpose Probe w/400 series thermistor 12F	40012-ER	ER400-12		90044	81-020412
Skin Temperature Sensor		Surface Skin Sensor w/400 series thermistor	400-SK	STS-400	1017	90045	81-010400
Tympanic Temperature Probe		Tympanic Temperature Sensor, Adult, 400 series	400-TY	TTS-400		90058	81-090400
		Tympanic Temperature Sensor, Pediatric, 400 series	400-TYP	TTSP-400			
Cables		Standard 1/4" phone plug 400 series, 10 ft.	400-MP-M	C400-10	1332	5020410	81-101400
		Philips/HP cable 400 series, 10 ft.	400-P-M	C400-10HP	1331	5020410	81-1010HP



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References: 1. The WHO Guidelines for Safe Surgery, First Edition. Highly Recommended Practice.  
2. American Society of Anesthesiologist's STANDARDS FOR BASIC ANESTHETIC MONITORING, Committee of Origin: Standards and Practice Parameters, Effective July 1, 2011.

# Monitor and protect every patient every time...



*In a time of strained hospital budgets, some basic monitoring applications are not routinely followed simply because of the cost associated with the monitoring device. Guidelines for Safe Surgery and Basic Anesthesia Monitoring require that all general anesthesia procedures must have basic patient monitoring including continual temperature monitoring.<sup>1,2</sup> Starboard Medical's Disposable Temperature Probes help you comply with required standards with accuracy, reliability and a cost savings.*

*All of our probes feature specific design attributes to minimize patient harm during application and enhance the accuracy of the temperature reading, minimizing fluctuations and intermittent readings. Our 400 Series thermistor temperature sensors are highly sophisticated with an accuracy of:  $\pm 0.1^{\circ}\text{C}$  at  $37^{\circ}\text{C}$  and  $\pm 0.2^{\circ}\text{C}$  at  $5^{\circ}\text{C}$  to  $45^{\circ}\text{C}$ . All probes are latex free and compatible with all Series 400 patient monitors and hypo-hyperthermia machines. Starboard Medical's temperature probes provide for temperature measurement at a range of sites.*



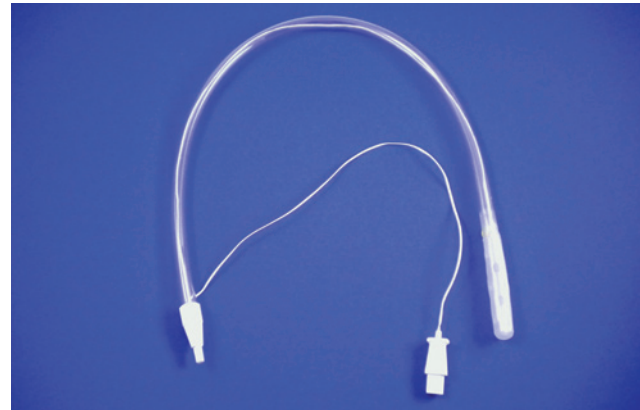
## DISPOSABLE TEMPERATURE PROBES

# Accurate and reliable *every* time...

## Temperature Probe product offering



### Esophageal Stethoscope



Starboard Medical's Esophageal Stethoscopes are dual purpose devices, combining internal auscultation of heart and breath sounds with a precision 400 series temperature sensor for monitoring patient temperature. The Esophageal Stethoscope is placed in the lower esophagus at the heart level providing an auditory transmission of precise heart and breath sounds directly to the anesthesiologist's ear piece. Starboard's Esophageal Stethoscope feature specially formulated balloon material to optimize sound transmission.

#### PRODUCT FEATURES

- Acoustic balloon designed to enhance sound quality.
- Acoustic balloon is heat bonded to tube to minimize rough edges associated with gluing helping to reduce the risk of esophageal trauma during insertion and removal.
- Long lead wires keep connections off the patient's face and out of the anesthesiologist's way during surgery.
- Available in 9, 12, 18 and 24F covering the full spectrum of pediatric to adult patients.

#### ORDERING INFORMATION

BOX QUANTITY: 30 per box

CATALOG NUMBER	DESCRIPTION
4009-ES	Esophageal Stethoscope with 400 series thermistor, 9F
40012-ES	Esophageal Stethoscope with 400 series thermistor, 12F
40018-ES	Esophageal Stethoscope with 400 series thermistor, 18F
40024-ES	Esophageal Stethoscope with 400 series thermistor, 24F

### Skin Temperature Sensor



Starboard Medical's skin sensors combine a precision thermistor with soft, pliable, adhesive foam disk for the attachment to patients' skin. The junction of the sensor tip and lead wire is placed inside of a specifically designed pocket within the foam to reduce pressure and irritation on the skin. The skin temperature sensor provides for accurate temperature measurement of the skins surface and may be placed on the skin at any site on the body. Recommended placement sites are: axilla, forehead, or any other skin surface as clinically indicated. Soft adhesive foam disk allows for easy placement and removal.

#### PRODUCT FEATURES

- Mylar backing provides insulation from heat lamps and other lighting, improving sensor accuracy.
- Thinner lead wire is less stiff and more pliable for application on the skin and reduces the interference of ambient air on the temperature reading (the stem effect).
- The sensor is embedded in the center of the foam disk to reduce the likelihood of sensor separation from the foam. This feature also decreases the risk of irritation in patients with thin, sensitive skin.

#### ORDERING INFORMATION

BOX QUANTITY: 50 per box

CATALOG NUMBER	DESCRIPTION
400-SK	Skin Temperature Sensor with 400 series thermistor

### Esophageal/Rectal Probes



Starboard Medical's Esophageal/Rectal probes provide for accurate measurement of body temperature. The probe can be placed in the esophagus, rectum, nasopharynx, or axilla. The probes are available in both 9F and 12F meeting the needs of adult and pediatric patients. Our probes are compatible with all Series 400 patient monitoring equipment. In addition, our Esophageal/Rectal probes are compatible with Gaymar, Cincinnati Sub-Zero and other hypo-hypothermia machines. A tip-to-end PVC sleeve protects the lead wire from strain, breaks, kinks, and interference from ambient air, enhancing product quality and temperature accuracy.

#### PRODUCT FEATURES

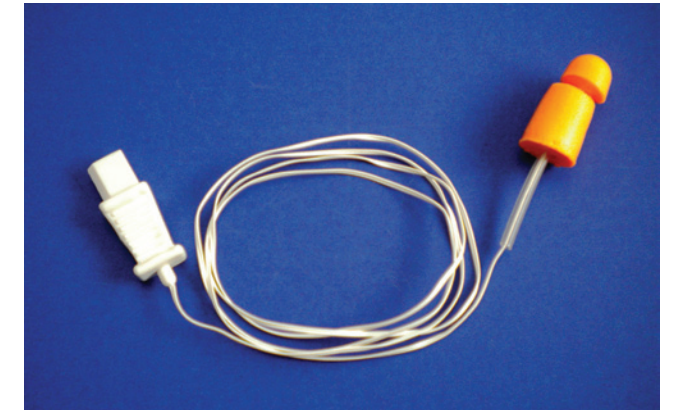
- Smooth rounded beveled tip for non-traumatic insertion and withdrawal.
- Available in 9 and 12F to cover both pediatric and adult patients.
- Compatible with all hypo-hyperthermia equipment providing an accurate, low cost alternative.

#### ORDERING INFORMATION

BOX QUANTITY: 35 per box

CATALOG NUMBER	DESCRIPTION
4009-ER	Esophageal/Rectal Probe with 400 series thermistor, 9F
40012-ER	Esophageal/Rectal Probe with 400 series thermistor, 12F

### Tympanic Probe



The tympanic probe is designed to seal the ear canal and safely allow the ear canal to equilibrate to tympanic temperature. Studies have shown that tympanic membrane temperature closely approximates core body temperature and is a less invasive way to monitor temperature. To reduce the risk of perforation of the tympanic membrane the probe features dual foam protection. The tip of the temperature sensor is encapsulated in the soft foam cushion while the second, the barrier foam, collapses to allow easy insertion and expands to seal the ear canal off from ambient air. This provides for an accurate temperature reading without physically touching the tympanic membrane.

#### PRODUCT FEATURES

- Dual foam protection with soft memory cell foam.
- PVC applicator and strain relief makes insertion easy while protecting the lead wire from kinks.
- Thinner lead wire is more pliable and provides greater accuracy.
- Available in pediatric and adult configurations.

#### ORDERING INFORMATION

BOX QUANTITY: 50 per box

CATALOG NUMBER	DESCRIPTION
400-TY	Adult Tympanic Temperature Sensor with 400 series thermistor
400-TYP	Pediatric Tympanic Temperature Sensor with 400 series thermistor