



Features of pH Catheters and Accessories

Consistent and reliable recordings of the pH value in the esophagus depend on the material, construction and quality of the pH catheters used. All our pH catheters are developed and manufactured by Medtronic Functional Diagnostics. In-house development and manufacturing mean that we can closely monitor the quality level, stay flexible and continuously work on improvements. Our range of pH catheters includes disposable as well as reusable catheters. We also offer pediatric catheters and catheters with LES Locators to meet the requirements of your specific patient and choice of procedure.

At Medtronic Functional Diagnostics we know that the well-being of the patient during the procedure is important. Our pH catheters have been developed accordingly, with frosted tubing to secure easy intubation and relieve discomfort for the patient during procedures.

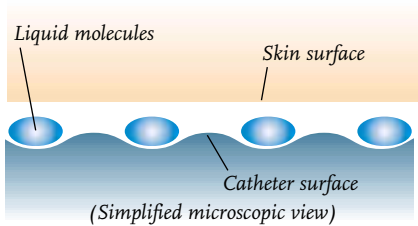
Medtronic Functional Diagnostics offers the possibility to design special configurations to meet your sensor location requirements. Contact your local representative for any special requests you may have but please allow extra lead-time for such configurations.

pH Accessories

Zinetics 24 Single-use pH Catheters

Continuous development of the Zinetics 24 Single-use pH Catheters has significantly improved the design characteristics of the catheters. The Zinetics 24 Catheters consistently provide accurate and reliable results. The catheters are efficient and economical, eliminate the risk of cross-contamination and allow greater patient relaxation during procedures.

- The Single-use attribute eliminates the cost and time of cleaning and disinfection.
- Internal reference provides enhanced user convenience whilst allowing more reliable tracings and fewer set-up steps.
- Frosted tubing: the catheter body is firm at room temperature for easy intubation, but is soft at body temperature for patient comfort.



*Frosted tubing:
Moisture pockets on the catheter surface trap liquid molecules to increase wettability and facilitate intubation.*

Zinetics 24

Part#	Sensor(s)	20 cm	15 cm	10 cm	5 cm	0 cm	Sensor Spacing
9012P2031	1					1	None
9012P1001	2				2	1	5 cm
9012P1011	2			2		1	10 cm
9012P1021	2		2			1	15 cm
9012P4001	2	2				1	18 cm
9012P1031	2	2				1	21 cm
9012P1081*	1					1	None

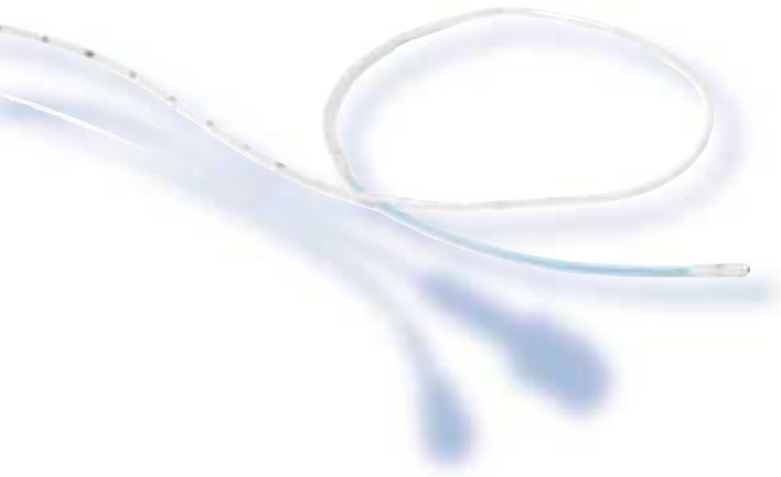
* Minimum discomfort due to soft-body, smooth surface and small (1.5mm) diameter.

Zinetics 24 with LES locator

9012P2041	1					1	None
9012P1041	2					1	5 cm
9012P1051	2			2		1	10 cm
9012P1061	2		2			1	15 cm
9012P1071	2	2				1	21 cm

Note: Special order configurations are also available. Please allow at least five weeks for delivery.

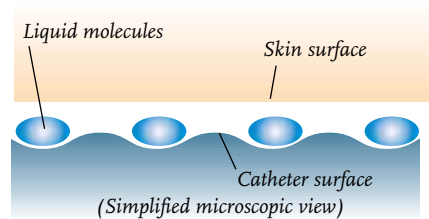
Zinetics 24M Multi-use pH Catheters with Internal Reference



Our range of Zinetics 24M Catheters has been extended and now includes a variety of catheters with Perfusion Port for easy identification of the LES (lower esophageal sphincter). The Zinetics 24M Catheters are reusable and come in many different configurations.

- Internal reference provides enhanced user convenience whilst allowing more reliable tracings and fewer set-up steps.
- Clear and durable markings and numbers for accurate and easy catheter placement.
- Frosted tubing: the catheter body is firm at room temperature for easy intubation, but soft at body temperature for patient comfort.

Frosted tubing: Moisture pockets on the catheter surface trap liquid molecules to increase wettability and facilitate intubation.



Zinetics 24M

Part#	Sensor(s)	20 cm	15 cm	10 cm	5 cm	0 cm	Sensor Spacing
9012P5041	1					1	None
9012P5051	2				2	1	5 cm
9012P5061	2			2		1	10 cm
9012P5071	2		2			1	15 cm
9012P5081	2		2			1	18 cm
9012P5091	2	2				1	21 cm

Zinetics 24M with LES locator

9012P5101	1				LES PORT	1	None
9012P5111	2			LES PORT	2	1	5 cm
9012P5121	2		LES PORT	2		1	10 cm
9012P5131	2	LES PORT	2			1	15 cm

Note: Special order configurations are also available. Please allow at least five weeks for delivery.

pH Accessories

Zinetics 24ME Multi-use pH Catheters with External Reference

The Zinetics 24ME Catheter is designed using established technology used reliably over the last ten years. A cost-effective solution with the following benefits:

- Clear and durable markings and numbers for accurate and easy catheter placement.
- Durable connector for improved security and reliability.
- Zinetics antimony sensors.



Working with pH catheters with external reference

In procedures where the Zinetics 24ME is applied the fixation of the external reference electrode to the skin is secured by using Adhesive Rings. The Adhesive Ring avoids the reference from falling off or lifting from the skin. The Hellige Electrode Gel creates stable contact to the skin.

Zinetics 24ME

Part#	Sensor(s)	20 cm	15 cm	10 cm	5 cm	0 cm	Sensor Spacing
9012P2051	1					1	None
9012P2061	1		PEDIATRIC			1	None
9012P2081	2				2	1	5 cm
9012P2091	2				2	1	7 cm
9012P2101	2			2		1	10 cm
9012P2111	2		2			1	15 cm
9012P5001	2				2	1	18 cm
9012P5011	2	2				1	21 cm

Note: Special order configurations are also available. Please allow at least five weeks for delivery.

Other pH Accessories

In our range of accessories we have included additional products that will assist you in performing reliable and accurate pH studies.



pH Accessories

pHix Strips easily fix the catheter on the nose and are made of microporous tape allowing the skin to breathe. They come in three different sizes to suit the patient.

The proper Gel and Adhesive Rings are essential in preparing the reference electrode when working with pH catheters with an external reference.

pH Catheter Accessories

Item no.	Description	Qty
9012D1011	Hellige Electrode gel, 100 g	1
9012D1021	Adhesive Rings, small	500
9012D1031	pHix Strips, Adult	50
9012D1041	pHix Strips, Pediatric	50
9012D1051	pHix Strips, Infant	50

Buffer Solution

Buffer solution is needed to calibrate your pH catheters. Our buffer solutions are available in bottles and in single-use sticks. The latter are disposable, easy to use and eliminate the risk of buffer contamination.



Buffer Solution

Item no.	Description	Qty
9012D1461	Disposable Buffer Sticks, pH 1.07 and pH 7.01	10
9012D1061	Synectics Buffer Solution, pH 7.01, 500 ml	6
9012D1071	Synectics Buffer Solution, pH 7.01, 500 ml	1
9012D1081	Synectics Buffer Solution, pH 1.07, 500 ml	6
9012D1091	Synectics Buffer Solution, pH 1.07, 500 ml	1
9012D1101	pH Calibration Stand with two Sealable Buffer Tubes	1

pH Accessories

LES Identification Accessories

For accurate location of the LES we have developed pH catheters with a pressure measuring function. To utilise the LES Locator function an LES identification accessory kit is needed; the components of which can be seen below. Each item may be purchased separately or together in a complete kit.



LES Identification Kits

Complete kits to be used for manometric identification of the LES.

Item no.	Description	Qty
9012D0201	LES Identification Manometry Kit for Digitrapper pH	1
G98-0110	LES Identification Manometry Kit, Digitrapper Mk III/MD	1

LES Identification Accessories

Item no.	Description	Qty
9012K1001	PVB Pressure Transducer, Built-in Capillary	1
9028P0151	Pressure Cuff	1
9012K1011	Single Transducer Holder	1
9012D1121	Micro Drip Set	1
9012D1141	Extension Tubing for pH Catheters with LES Locator	1
9012D1131	PVB Combi Holder	1
G63-1111	T-Connector	1
9043G1201	PVB Transducer Cable for Digitrapper pH, 100 cm	1
G98-3162	PVB Transducer Cable for Digitrapper Mk III	1

To set up the system use a Pressure Cuff to apply pressure to a water bag with a Micro Drip Set attached. The water flow runs through the Pressure Transducer that is attached to the catheter with an extension tubing and to the recording device. The system requires a catheter with a built-in LES locator. This system setup reads the pressure change when the catheter is pulled through the LES, accurately locating its position. The entire setup can be seen in the illustration.

