EndoGear®

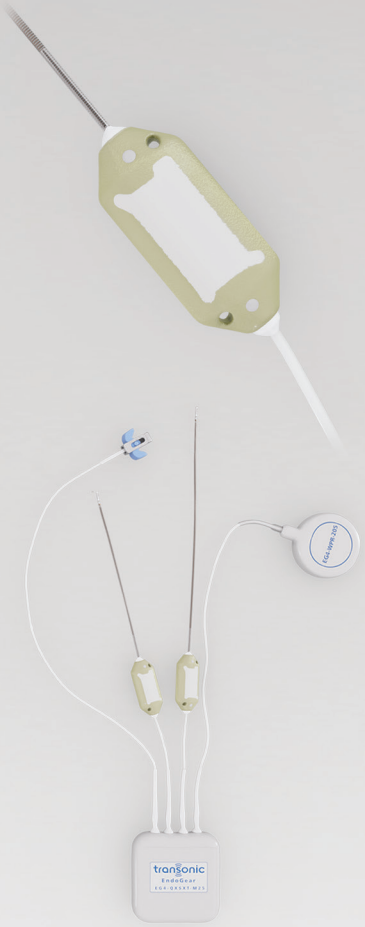
Pressure Sensors

Solid-state pressure catheters are the standard of accuracy and resolution in the life science space, though few providers exist that offer the expertise to make them. We have made our own catheters for 20-years, each successfully used in carotid, ventricular and other intravascular applications. With our newest Scisense sensor, we can now provide a catheter specifically for the challenges of chronic instrumentation.

Composed of a stainless-steel housing to protect the sensor, helically wound gold-plated copper wire and a filled thermoplastic shaft, our 1.9F (0.63mm) Scisense catheter offers the ideal mixture of compliance and durability. Our catheters integrate pressure conditioning electronics into a biocompatible housing that allows for seamless transition between the smaller catheter shaft and flexible silicone cable. As an added benefit, this design has integrated suture holes to aid in the surgical application.

Available in standard catheter lengths to suit the application, Scisense catheters integrate directly with the EndoGear® platform for wireless pressure measurement without signal attenuation or motion artifact characteristic of other technologies.

Pressure Catheter Specifications	
Family Model Number	EGAC
Pressure Sensing Technology	Absolute MEMS Diaphragm
Materials	316 Stainless Steel, Biocompatible silicone, and complex polymer enclosures
Catheter Assembly Dimensions	
Catheter Diameter	1.9F (0.63mm)
Catheter Length	Standard Lengths (± 5 mm): 80 mm or 125 mm
Pressure Conditioning Enclosure	20 mm x 8 mm x 4 mm (LWH)
Cable Length	8 cm to 20 cm
Cable Diameter	1.12 mm ± 0.05
Total Catheter Assembly Length	Catheter Length + Enclosure Length + Cable Length
Measurement Specifications	
Pressure Measurement Range Absolute	650 mmHg to 1100 mmHg
Example Range at Atsm = 740 mmHg	-90 mmHg to 360 mmHg
Drift	< 4 mmHg/Month
Temperature Compensation	All temperature compensation is provided in the sensor conditioning enclosure. Tip and enclosure should be at the same temperature to yield best results
Notes:	Pressure catheters are built into the implant
	Analog calibration values (pre-calibrated) are provided



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