

Micro Sensor 1.8

THE 6DOF MILLIMETER-SIZED SENSOR For High Precision Tracking

The small but powerful Micro Sensor 1.8™ is a tiny motion tracking element that tracks in full 6DOF (Degrees-Of-Freedom), capturing precise measurements of both position and orientation, and delivering tracking data at speeds up to 240 Hz. Micro Sensor 1.8 comes in both standard and extra flex cable.

SMALL MATTERS

Weighing in at less than a gram and boasting a slender size, measuring 1.8 millimeters in OD (Outer Diameter), the Micro Sensor 1.8 is ideal for attaching to objects, such as surgical and dental instruments, and more. The Micro Sensor 1.8 offers high fidelity 6DOF tracking, measuring the quickest of finger and hand movements. Track up to 16 sensors, per system, simultaneously—and seamlessly. The tiny size also makes it the perfect sensor for head tracking applications.

EMBEDDABLE TECHNOLOGY

Like all Polhemus tracking technology, the Micro Sensor 1.8 requires no line-of-sight for continuous tracking. Due to Polhemus proprietary AC electromagnetic technology, the Micro Sensor 1.8 can be embedded into a wide array of custom form factors. It fits inside a traditional catheter, and can be tracked through gloves, or worn under a hat or helmet, maintaining continuous tracking.

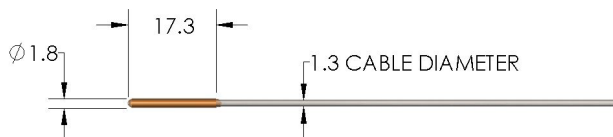
PERFORMANCE & SPECIFICATIONS

Accuracy is specific to the Polhemus tracking system selected. For more information about our motion tracking systems currently ready for use with Micro Sensor 1.8, please visit our website at:

polhemus.com/micro-sensors.

MICRO SENSOR 1.8 CABLE DETAILS:

- Cable Dimension: approx. 1.3 mm OD (Outer Diameter)
- Standard Cable Length: 15 ft
- Other optional lengths available



DIMENSIONS IN MILLIMETERS

THIS DRAWING FOR REFERENCE ONLY.
NOT FOR SPECIFICATION OR TOLERANCE
PURPOSES.

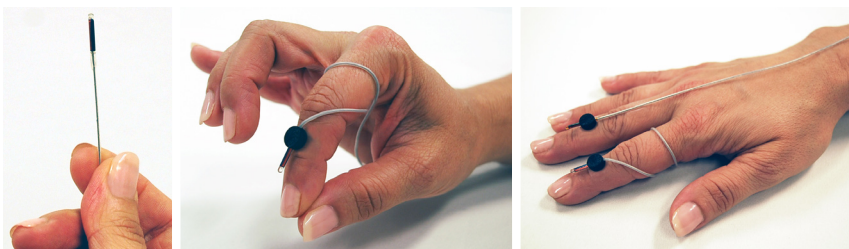


THE STANDARD AND EXTRA FLEX CABLES FOR MICRO SENSOR 1.8, SHOWN ON HAND

APPLICATIONS

The Micro Sensor 1.8 fills the need for any application that requires both high fidelity 6DOF tracking and millimeter-sized sensors. Healthcare, military and research markets with applications that require a portable, easy, and flexible set-up will benefit.

- Healthcare simulation
- Head tracking
- Hand and finger tracking
- Catheter applications
- Image guided surgical simulations/procedures
- Biomechanics



THE STANDARD MICRO SENSOR 1.8, THE MICRO SENSOR 1.8 EXTRA FLEX, BOTH OPTIONS SIDE BY SIDE

KEY FEATURES

- Full 6DOF motion tracking (measures both position and orientation)
- 1.8 millimeter OD (Outer Diameter)
- Embeddable, no line-of-sight required
- Highly precise and accurate
- Lightweight, sensor head weighs less than a gram
- Update rates as high as 240 Hz
- Track up to 16 sensors simultaneously, per system

POLHEMUS.COM

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