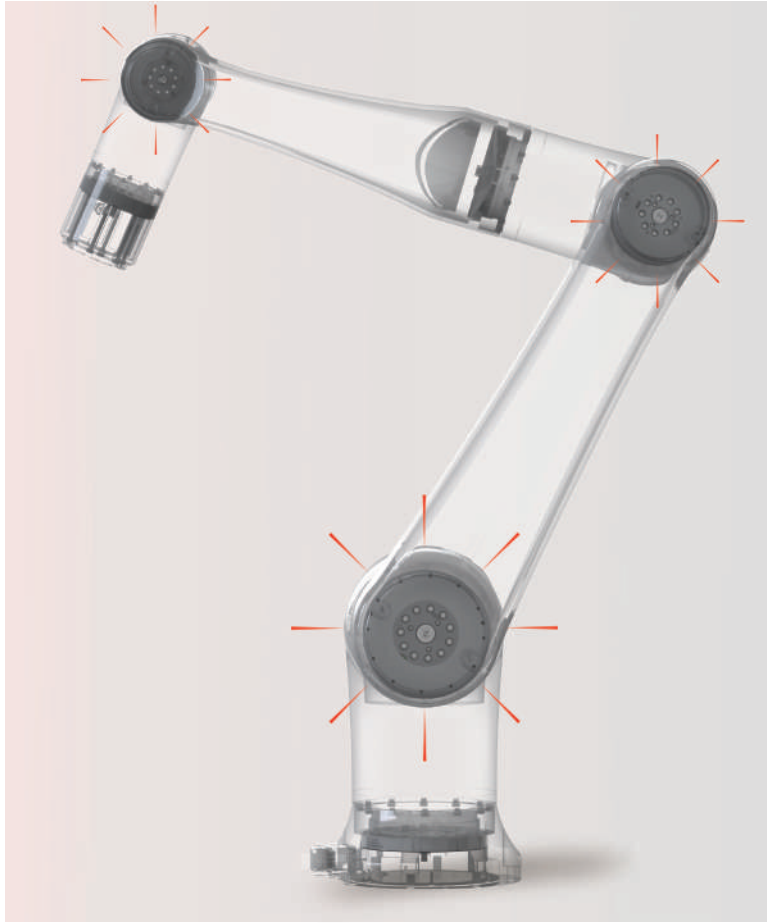


High-Stiffness, Ultra-Thin Design Joint Torque Sensor



Ultra-thin Joint Torque Sensor (ATSB)

- ✓ Specialized design for **robotic joint actuators**
- ✓ Performs critical functions for **sensitive collision detection and torque control**
- ✓ **Exceptional adaptability** to temperature and environmental changes
- ✓ **Multi-axis sensing** with high environmental resistance for **precise torque measurement**

APPLICATION

- ✓ Collaborative robot (ex. Rainbow Robotics, Neuromeka, etc)
- ✓ Wearable robot
- ✓ Medical device
- ✓ Multi-function rehabilitation robot

Index	Unit	ATSB50	ATSB100	ATSB200	ATSB400
Dimensions	mm	D84 * H14	D100 * H16	D100 * H18	D120 * H20
Norminal torque range (T_n)	N	50	100	200	400
Overload(related T_n)	%	300	300	300	300
Resolution	Nm	0.03	0.05	0.1	0.2
Sample rate	Hz	1,000	1,000	1,000	1,000
Interfaces			CAN (2.0 A/B)		

Why **AIDIN's F/T Sensor**?

AIDIN ROBOTICS' F/T sensors measure multi-axis forces and torques, adapting to various environments and temperatures for maximum convenience and efficiency



High-sensitivity & precision



Durability & long-term stability



Miniaturization

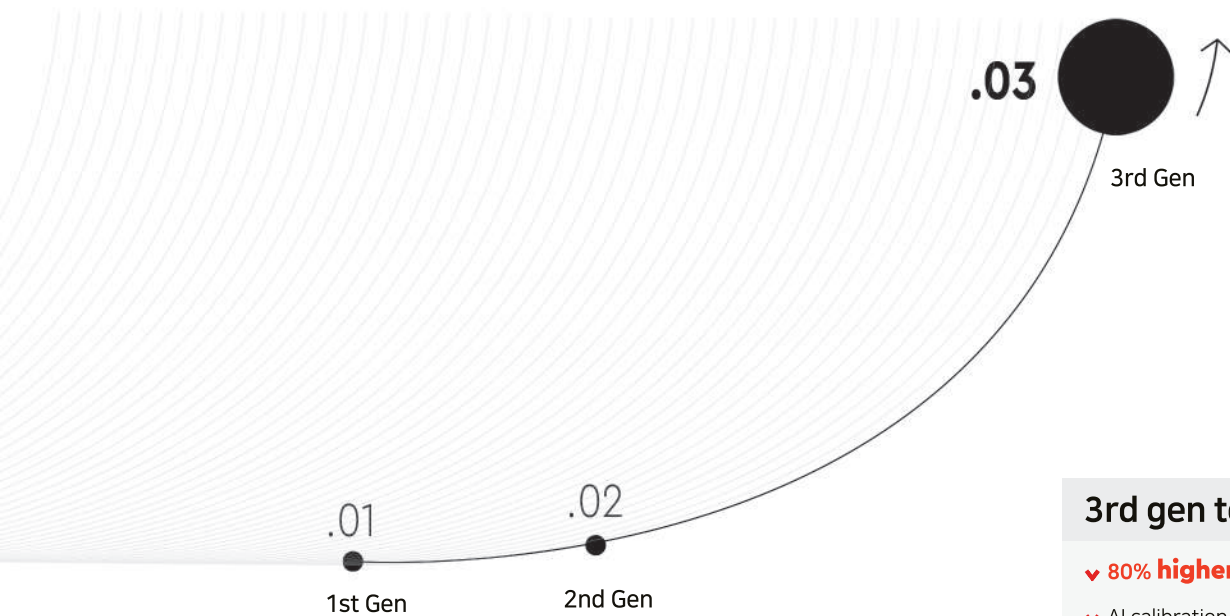


Competitive price



All In One

No additional equipment



Basic capacitance measurement

- Weakness for external noise
- Structure complex for F/T measurement
- Vulnerable to temperature changes
- Mass production challenges

Overcoming capacitance limits

- External noise immunity secured
- Next-gen fringe effect boosts sensitivity 10x
- Temperature compensation
- Production capability ensured

3rd gen tech upgrade

- 80% higher sensitivity than Gen 2
- AI calibration enhances accuracy, repeatability, and linearity
- Improved mass production capability
- Better stability against temperature & humidity



Solution Introduction



Homepage



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