

Triaxial inertial measurement unit with built-in i-FOG

Precision was increased by using i-FOG, the closed loop method



Types TA7589 Series

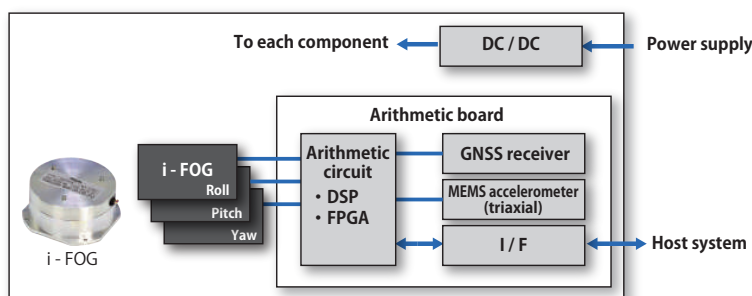
Features

- Excellent bias reproductivity, stability and linearity were realized by using three axes of high-precision [0.1°/h] gyro.
- True north can be detected.
- Compound navigation system with built-in GPS receiver

Application examples

- Measurement of behavior of mobile objects such as vehicle, vessel, and flying object.
- Attitude control of mobile objects

Diagram



Specifications

Type	TA7589	
Dynamic range	Roll	±180°
	Pitch	±90°
	Yaw	±180°
Angular accuracy of attitude	0.1° maximum	
Angular accuracy of azimuth	0.5 maximum (°GPS composite)	
Speed accuracy	50m/s (full inertial) maximum, to 1m/s (GPS composite) maximum	
positional accuracy	120NM/hCEP (full inertial) maximum, 5m (GPS composite) maximum	
Input power source	28V DC	
Mass	3.5kg or below	
Power consumption	30W or below	
Operational temperature range	-20~+60°C	
Storage temperature range	-30~+70°C	

Price range and precision of gyro products

