

NORSUB ORIENTATION SENSORS

HIGH ACCURACY MEMS INERTIAL SENSORS
FOR STABILIZATION, TRACKING & MOTION
ANALYSIS

HIGH-END MEMS IMU & ATTITUDE DATA

NORSUB ORSENS is a high-end MEMS inertial measurement unit and attitude sensor. It provides real-time accelerations, pitch, roll and angular turn rates at high frequencies. It is the ideal choice for dynamic and stationary applications that require highly accurate motion data.

EASY INTERFACING & QUICK SET-UP

NORSUB orientation sensors are compact and easy to interface. They come pre-calibrated with on-board sensor fusion algorithms, 32 GB internal storage and ethernet and serial communication. A wide range of industry standard and custom protocols are included.

APPLICATION EXAMPLES

Antenna and Platform Stabilization
Motion Analysis
Wind Turbine Monitoring
Pipeline Inspections
Gimbals
Inertial Navigation
Unmanned Control
Motion Monitoring Systems
Robotics
Vehicle Acceleration/Deceleration
Advanced Drones



ORSENS 5000 - TECHNICAL SPECIFICATION

PERFORMANCE

PARAMETER	ORSENS 5000	REMARKS
Outputs	Roll, Pitch (Static & Dynamic), xyz accelerations, roll & pitch turn rates	Accelerations in body & NED frames
Roll & Pitch	+/- 0.02°	RMS (Dynamic)
Rotation speed range	+/- 150°/s	-
Acceleration range	+/- 3 g	-

POWER & INTERFACES

PARAMETER	ORSENS 5000	REMARKS
Power Consumption	6 W	-
Supply Voltage	9 - 36 V DC	24 V DC Nominal
Internal Storage	32 GB	
Ports	Ethernet, RS-232, RS-485 (422), 2 x Sync	-
Protocols	NMEA, ASCII, Binary, Atlas, Gyrocompas 1, Ifremer Victor, MDL, SMCA, SMCC, TSS1 ++	Wide range of protocols available, see separate list

PHYSICAL CHARACTERISTICS

PARAMETER	ORSENS 5000	REMARKS
Weight	180 g	OEM version
Size (L x B x H)	76.2 x 50.8 x 38.0 mm	OEM version