

IXSEA ROVINS GYRO TO INS



GENERAL DESCRIPTION

ROVINS is a survey grade gyrocompass and full featured Inertial Navigation System (INS) for depths to 3,000m. Designed specifically for offshore survey and construction works, ROVINS improves the efficiency of all operations where accurate position, heading and attitude are key benefits.

FEATURES

- Web based software
- Upgradeable
- Interface to standard surface and subsea positioning systems (GPS, USBL, DVL, depth sensor)
- Identical OCTANS housing and footprint
- Fibre Optic Gyroscope (FOG), unique strap-down technology

BENEFITS

- Instant interface via web browser
- 'ROVINS gyro only mode' to 'ROVINS full INS'
- Based on proven OCTANS gyrocompass & PHINS INS architecture
- Interchangeability
- Acoustically quiet and maintenance free

OCEANSCAN LIMITED
DENMORE ROAD, BRIDGE OF DON, ABERDEEN,
SCOTLAND, U.K., AB23 8JW
TEL; +44(0)1224 707000, FAX: +44(0)1224 707001
Email: rental@oceanscan.co.uk, Website: www.oceanscan.co.uk

Accredited to BS EN ISO 9001:2000



IXSEA ROVINS GYRO TO INS

TECHNICAL SPECIFICATIONS

With acoustic positioning system With Doppler Velocity Log Without aiding sensor (1min/2min) Heading

Accurac Resolution

Accuracy

Roll / Pitch Dynamic accuracy Range Resolution

Settling time (static conditions)

Three times better than aiding system 0.2% of traveled distance (6 m/h at 2 knots)

0.05 deg secant latitude $^{\left[1\right)}\left(2\right]$ 0.01 deg

5 cm or 5% (whichever is highest) Set-up free (SAFE-HEAVE ™)

0.01 deg No limitation 0.001 deg 5 min

OPERATING RANGE / ENVIRONMENT

Vibrations Follow-up speed Shocks Operating / Survival

Operating / Storage Temperature No warm-up effects, insensitive to thermal shocks Up to 85° latitude (NS)

1 g sine (5 to 50 Hz) Up to 750 deg/s 30 g 6 ms / 50 g 11 ms 30,000 hours -40 °C / -40 °C to +55 °C / +80 °C

PHYSICAL CHARACTERISTICS

Depth rating [m]	Material	Weight in air/water (kg)	Total dimensions (Øx Hmm)	Base plate dimensions (Ø x H mm.)	Mounting	Connector	Inputs	Outputs	Power supply consumption
3000	Titanium	15/6.6	213 x 374	213 € 36	6 off M6 Holes	26-Pin Seacon 16-Pin Seacon 12-Pin Seacon	Sisenals Ethernet	3 serials Ethernet	24 VBC / 15 W

INTERFACES

Output protocols Serial I/O Baud rates Output frequency Ethernet

(1) Secont latitude = 1 / cosine latitude - (2) RMS value

Industry standards: NMEA 0183, binary RS232 or RS422 (user configurable) 600 bauds to 115 kbauds 0.1 Hz to 200 Hz TCP client / server or UDP

OCEANSCAN LIMITED DENMORE ROAD, BRIDGE OF DON, ABERDEEN, SCOTLAND, U.K., AB23 8JW TEL; +44(0)1224 707000, FAX: +44(0)1224 707001

Email: rental@oceanscan.co.uk, Website: www.oceanscan.co.uk Accredited to BS EN ISO 9001:2000