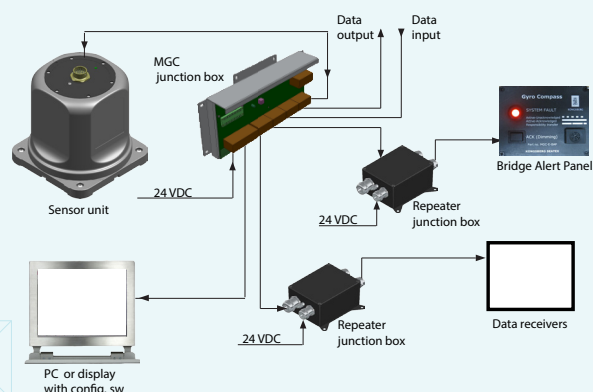


KONGSBERG

[illegible]

FEATURES

- 0.02° roll and pitch accuracy
- 0.1° heading accuracy GNSS aided
- No rotational or mechanical wear-out parts
- Outputs on RS-422 and Ethernet
- High output data rate (200 Hz).
- Small size, light weight and low power consumption
- IMO type approved
- Each MGC delivered with Calibration Certificate
- Selectable communication protocols in the configuration software



TECHNICAL SPECIFICATIONS

MGC R2 COMPASS

HEADING OUTPUT

| | |
|--|----------------------|
| Accuracy heading (speed aided) | 0.15° RMS sec.lat |
| Accuracy heading (GNSS aided) | 0.1° RMS sec.lat |
| Heading settling time to data available | <5 min from start-up |
| Heading settling time to full accuracy (typical) | 17 min from start-up |
| Resolution | 0.01° |

ROLL AND PITCH OUTPUT

| | |
|--------------------|--------------|
| Output range | ±90° |
| Resolution | 0.001° |
| Angular rate noise | 0.020°/s RMS |
| Accuracy | 0.02° RMS |

HEAVE OUTPUT

| | |
|----------------------------|---------------------------------|
| Output range | ±50 m, adjustable |
| Periods (real-time) | 0 to 25 s |
| Periods (delayed) | 0 to 50 s |
| Heave accuracy (real-time) | 5 cm or 5% whichever is highest |
| Heave accuracy (delayed) | 2 cm or 2% whichever is highest |

POSITION OUTPUT

| | |
|----------------------------|---------|
| Free inertial (GNSS aided) | 5 nm/hr |
|----------------------------|---------|

ELECTRICAL

| | |
|---------------------------|---|
| Voltage input | 24 V DC (nominal (18 to 32 V DC) |
| Power consumption | Max. 13 W (typical 11 W) |
| COM1 through COM8 | Serial port, bidirectional RS-422/IEC 61162-1 and IEC 61162-2 |
| Baud rate | Max. 115200 Baud |
| Ethernet UDP/IP (5 ports) | 10/100 Mbps |
| Output data rate (max) | 200 Hz |
| Timing accuracy | 1 ms |

INPUT FORMATS

| | |
|----------------|-------------------------|
| NMEA sentences | GGA, GLL, VBW, VTG, ZDA |
|----------------|-------------------------|

OUTPUT FORMATS

| | |
|----------------|-----------------------------------|
| NMEA sentences | GGA, GLL, VTG, HCR, HDT, ROT, THS |
|----------------|-----------------------------------|

OTHER DATA

| | |
|------------------------------|-----------|
| MTBF (service history based) | 100 000 h |
| MTBF (computed) | 50 000 h |

WEIGHTS AND DIMENSIONS

| | |
|-----------------------|--------------------------------|
| Sensor unit | 188.9 x 189.5 x 189.5 mm, 8 kg |
| MGC junction box | 67 x 308 x 155 mm, 1.5 kg |
| Repeater junction box | 57.1 x 115 x 104 mm, 0.5 kg |

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range

| | |
|-----------------------|--------------|
| Sensor unit | -15 to +55°C |
| MGC junction box | -15 to +55°C |
| Repeater junction box | -15 to +55°C |

Storage temperature range

| | |
|-----------------------|--------------|
| Sensor unit | -25 to +70°C |
| MGC junction box | -25 to +70°C |
| Repeater junction box | -25 to +70°C |

Enclosure protection

| | |
|-----------------------|------|
| Sensor unit | IP66 |
| Repeater junction box | IP54 |

Specifications subject to change without any further notice.

KONGSBERG SEATEX

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