



Standard 22

Digital Gyro

22

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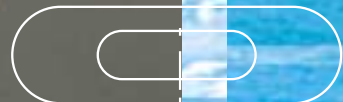
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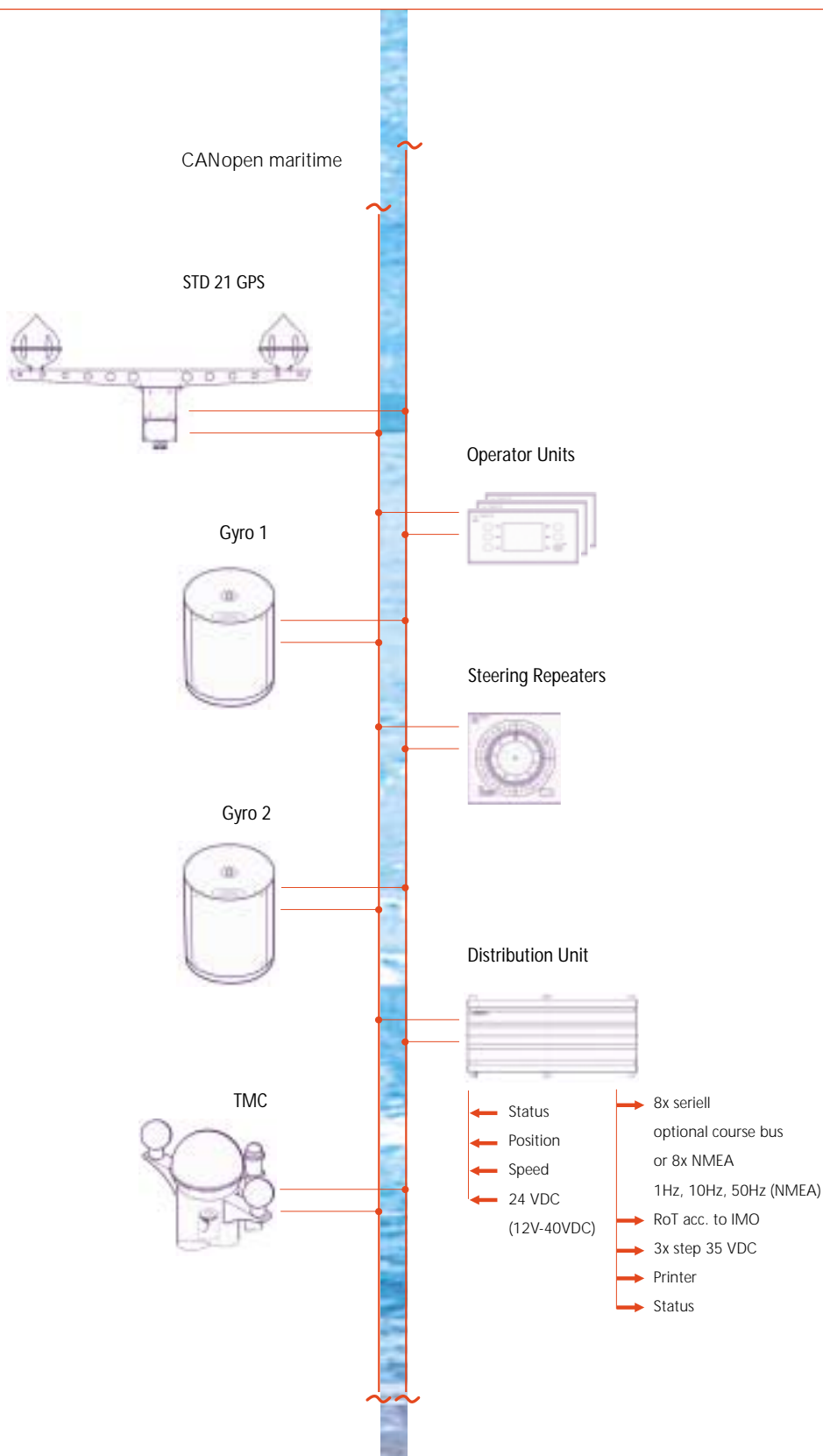
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*Leading Edge
Gyro Technology*





Latest technologies - inductive, slipring-free power transmission; smallest dynamic error through patented course-reading- increased operational safety and a high accuracy of the north-seeking function combined with excellent reliability.

The gyro compass STD 22 has been designed with a Rate-of-Turn Signal Output to meet the IMO requirements for RoT information and to provide the AIS with the Rate-of-Turn data. The redundant CANopen bus system complies with maritime standard and allows the Standard 22 to be easily integrated into a system.

It is compatible with all Anschütz gyro compasses and steering systems and meets the latest international approval requirements.

User Benefits

- Inductive, slipring-free power supply
- Smallest dynamic error through patented course reading
- Simplest system integration by redundant CANopen maritime standard
- Advanced technology guarantees highest system reliability
- Compass technology in an extraordinary price-performance ratio
- Separate compass repeater for flexible installation.
Desk mounting and bulkhead mounting.
Waterproof for external (bridge wing) installation.
- Speed / latitude error correction / dynamic correction
- Quick settling mode
- IMO Rate of Turn output

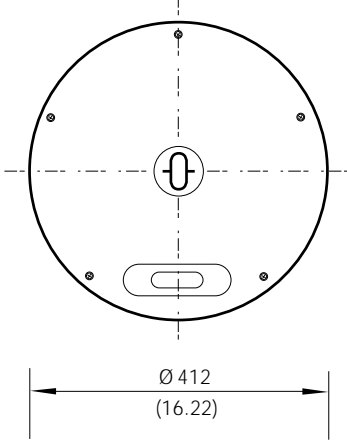
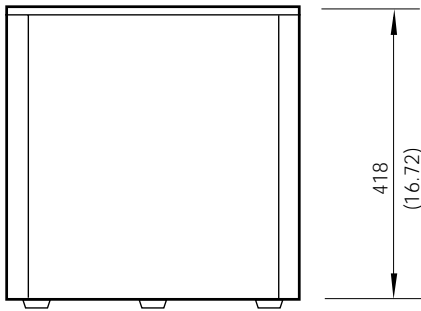
Gyro Compass STD 22



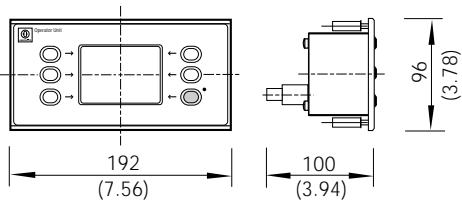
Operator Unit



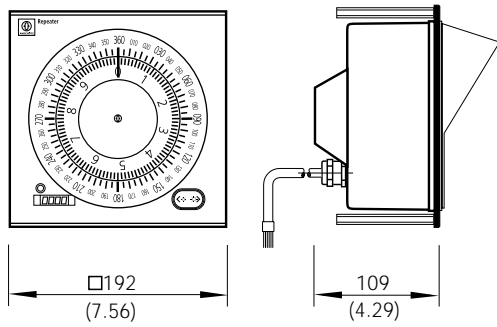
Distribution Unit



Gyro Compass STD 22



Operator Unit



Steering Repeater



Distribution Unit

Position High Speed

CANopen maritime

Quick Settling



203.5

Technical Data

Accuracy

Settle point error: $\leq \pm 0.1^\circ \times \text{secLat.}$
Static error: $\leq \pm 0.1^\circ \times \text{secLat.}$, RMS
Dynamic error: $\leq \pm 0.4^\circ \times \text{secLat.}$
(periodic roll and pitch+horizontal acceleration): $(\text{secLat.} = 1/\cos\text{Latitude})$

Supply voltage

24 V DC (18 to 36 V) or
110/115/220/230 V, 50/60 Hz, 1~
with power unit with automatic
change-over to 24 V DC
-emergency supply

Power consumption

30 W to 105 W (start-up) sensor unit
36 W control unit
2.5 W operator unit
7 W per analogue repeater

General data

Permissible ambient temperature
Operation: -10°C to $+55^\circ \text{C}$
Storage: -25°C to $+70^\circ \text{C}$
without supporting liquid
Settling time: 3h
Rate of follow-up: $75^\circ/\text{s}$
Permissible roll-
and pitch angle: $\pm 45^\circ$

Heading signal outputs/

RoT outputs

Sensor 1 x RS 422 (for extensions)
Distribution unit
- 8xRS 422 individually configurable
for repeater compasses
or as NMEA 0183 Vers. 3.01
- 3xStep, 6 steps/degree, 35 VDC
Common + or -,
total consumption $\leq 15\text{W}$
- 1xRS 232C for course printer
- RoT acc. to IMO
- 1xanalogue, $\pm 10\text{VDC}$
RoT 30, 100, 180, 300 or
500 °/min (20 mV/degree/min)

Heading transducer

Synchro system for 12 torque
receivers: -synchro, 1 rev. $\wedge 1^\circ$,
50 V/20 V, 50 Hz
optionally other voltages or
step system for 15 torque receivers:
a) step, 6 steps/degree, common +
b) step, 6 steps/degree, common -
35, 50 or 70 VDC

Alarms

Built-in alarms:
power failure, gyro failure
system failure

Alarm outputs:

potential-free relay contacts

Environmental conditions

Acc. to Publication IEC 60945,
Marine Navigational Equipment
Type approved acc.to MED 2001/53/EC

Weight

Sensor (master compass) incl.
gyrosphere and supporting liquid:
13.5 kg
Control unit: 5 kg
Operator units: each 1.5 kg
Heading transducer, synchro: 18.0 kg
Heading transducer, step: 15.0 kg

Type of enclosure acc. to DIN

Gyro compass: IP 23
Operator units: to IP 56 depending
on installation
Control unit: IP 44

Dimensions in mm (inch)

Subject to alteration due to technical
developments without notice.