CM880 – THE INTELLIGENT AUTOPILOT FOR PROFESSIONALS.

The robust, high performance commercial CM880 autopilot incorporates all the intelligence and specialised features required for optimal steering of workboats, large trawlers and freighters of 50 – 10,000 tonnes or more. It offers simple panel controls for course change, yaw, trim, rate control and mode functions even when wearing thick work gloves.

- Practical design for ease of operation and efficiency
- Enhanced course holding accuracy
- Adjustable turn rate
- Choice of automatic and manual trim
- Trim for weather helm, towing off-centre loads, or trawling
- Yaw control for reducing rudder activity in heavy seas
- Precision rudder control through adaptive rudder loop
- Large graphic display of heading and settings

- Backlit panel labels and adjustable display brightness
- LED bar indicator showing rudder angle
- Magnetic or digital compass
- Advanced navigation equipment interface
- GPS plotter and radar system interface
- Supports standard rudder and nozzle-style steering gear
- Single package unit for easy installation
- Designed and manufactured to IMO standards

GPS/PLOTTER*
RADAR (NMEA)

CM880
CONTROLLER

10V-35VDC SUPPLY

CM653/CM654
REMOTE
HELM HANDHELD

CM427
FLUXGATE
COMPASS
CM428
COMPASS
SLAVE
GYRO
COMPASS
(NMEA)*

CM656
ELECTRIC WHEEL
STEERING

CM730/CM630/
CM530
RUDDER ANGLE
INDICATOR

CM626
RATE GYRO

CM528
ANALOGUE
STEERING
INTERFACE

SOLENOID
DRIVE*
CM125
HEAVY DUTY
RUDDER
FEEDBACK

STANDARD SYSTEMS
OPTIONS
* CUSTOMER SUPPLY

CM880 INTELLIGENCE

The high performance commercial autopilot CM880 is the result of over three years of working closely with workboat and freighter captains, ongoing software development and exhaustive sea trials in some of the world's harshest marine environments.

The advanced, intelligent software built into the CM880 ensures enhanced course holding accuracy with minimal rudder movement. Coursemaster also offers an optional CM528 analogue steering interface to suit 360-degree nozzle and jet drive steering systems. The CM880 accepts heading inputs from a fluxgate compass, flat top compass slave, or a digital input from a gyrocompass and naturally all

NMEA navigation sentences are supported. A range of optional remote steering positions and remote helms may also be fitted offering the helmsman more flexibility and freedom to carry out watch keeping and navigation.

The CM880 incorporates the performance and safety features required by the IMO and similar regulatory bodies. Its electronics have a high level of protection against supply fluctuations and electromagnetic interference.

For the full range of tough, reliable commercial and leisure pilots manufactured in Australia by Coursemaster Autopilots, please refer to our website www.coursemaster.com
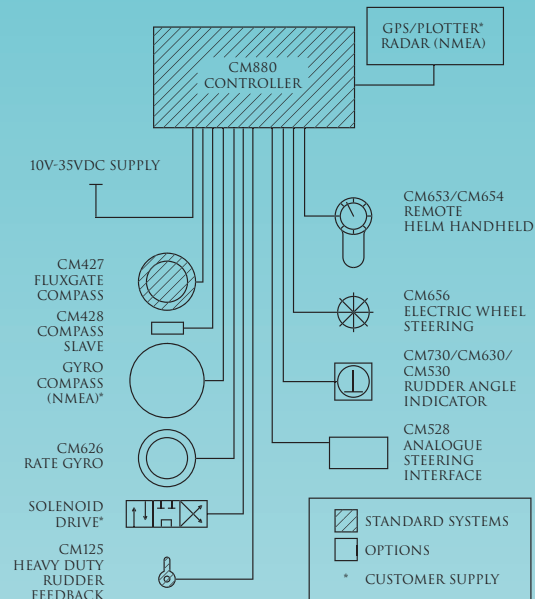
COURSEMASTER
AUTOPILOTS

Australia's world leader in autopilot technology

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CM880 AUTOPILOT SYSTEM SPECIFICATIONS

INPUT VOLTAGE: 10-35 VDC
ENVIRONMENTAL: 0-50°C
STEERING SYSTEM TYPES: Hydraulic, solenoid activated
POWER CONSUMPTION: 0.3A at 12 – 24V
HEADING SENSORS: Coursemaster CM427 Fluxgate,
        CM428 Compass Slave or digital (NMEA)
INTERFACING: Standard NMEA 0183
DUAL INPUT PORTS
OUTPUT: Selectable HDG or HDT sentence
ALARMS: Watch-keeping System, Full Helm, Off Course,
        Drive Stall, Overload and Compass Fault

CM880 CONTROLLER
DIMENSIONS: 290mm x 144mm x 111mm
MOUNTING: Flush mount or tilt bracket
INPUT VOLTAGE: 10-30 V Nominal. 35V Max
OUTPUT DRIVE: 2 Amps

CM125 RUDDER FEEDBACK
DIMENSIONS: Base: 100mm dia. Height: 125mm
        Actuator Arm: 165mm
MOUNTING: Horizontal, vertical, inverted

CM427 FLUXGATE COMPASS
OUTPUT: Sine/Cosine
ACCURACY: 2degrees RMS
ROLL/PITCH: +/- 35 degrees
DIMENSIONS: 95mm dia. x 55mm
CABLE: 8m

REMOTE CONTROL
Hand-held Cable Remote, Jog Lever or Electric Wheel Steering

CM626 RATE GYRO
Provides a far steadier course than any autopilot using only fluxgate compass, and completely overcomes any acceleration effects or magnetic field influences.
DIMENSIONS: 95mm dia. x 55mm

HYDRAULIC STEERING
A range of self-contained continuous running solenoid activated pump kits to suit various size hydraulic steering systems.

ANALOGUE STEERING INTERFACE
A CM528 Analogue Steering Interface provides control to propulsion systems such as Kamewa, Rolls Royce and Ulstein.

The specifications above are correct at the time of publication. Coursemaster reserves to the right to modify specifications in the interest of improving product quality.