

K-BRIDGE MULTI-INDICATOR



KONGSBERG



MED-CERTIFIED UNIFORM BRIDGE INSTRUMENTATION

The K-Bridge Multi-indicator is a 13" display that is MED-certified for use as a rudder angle indicator, a rate of turn indicator, a propulsion RPM indicator, or a propulsion pitch indicator.

FEATURES

The K-Bridge Multi-indicator can operate as any one of the following:

- Rudder angle indicator (ISO 20673-compliant)
- Rate of turn (RoT) indicator (ISO 20672-compliant)
- Propeller shaft RPM indicator (ISO 22554-compliant)
- Propeller pitch indicator (ISO 22555-compliant)

The Multi-indicator can be installed individually or in groups. It delivers the following benefits:

- MED-certified compliance with ISO standards
- Nominal viewing distance of up to 4m
- Slimline 13" full-colour TFT display
- Uniform design for all four MED-certified indicator types
- Design matching the HMI on KM operator stations

Multi-indicators can also be integrated (via Ethernet) with K-Bridge, K-Master or other KM vessel systems to provide, for example:

- Backup systems (with automatic failover) for rudder angle, rate of turn, RPM and/or pitch indicators.
- Palette synchronization with KM operator stations
- User-switchable content so that instruments displayed are specific to the vessel control system currently in use (DP, manual thrusters, autopilot ...)
- Depth display
- Speed display
- Time display
- Position display
- Heading display
- CCTV
- Custom indications for particular operating purposes

Certifications

K-Bridge Multi-indicator is MED certified to comply with:

- ISO 20673: 2007(E) "Electric rudder angle indicators"
- ISO 20672: 2007(E) "Rate of turn indicators"
- ISO 22554: 2007(E) "Propeller pitch indicators"
- ISO 22554: 2015(E) "Propeller shaft revolution indicators - Electric type and electronic type"

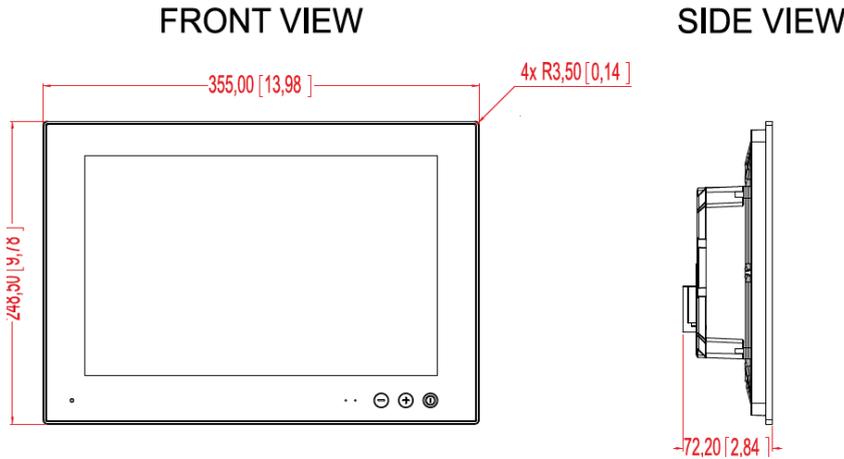
Interface modules

- NMEA COM module (for serial input from gyro or propulsion system).
- Analog interface module (for rudder input).

Electrical

Input voltage: 12-24 VDC
 Power consumption: 17 W (typical) / 36 W (max)
 Power input: 2-pin Terminal Block 5.08

Figure 1: Display measurements



USB ports

- 4 x USB2.0 Type A

Sensor input from the gyro or propulsion system is received on a USB port via a serial interface module. (Multiple inputs are possible with the screen divided accordingly.)

Serial port

- 1 x RS-422/RS-485

Input from a rudder feedback unit is received on a serial port via an analog interface module.

Ethernet ports

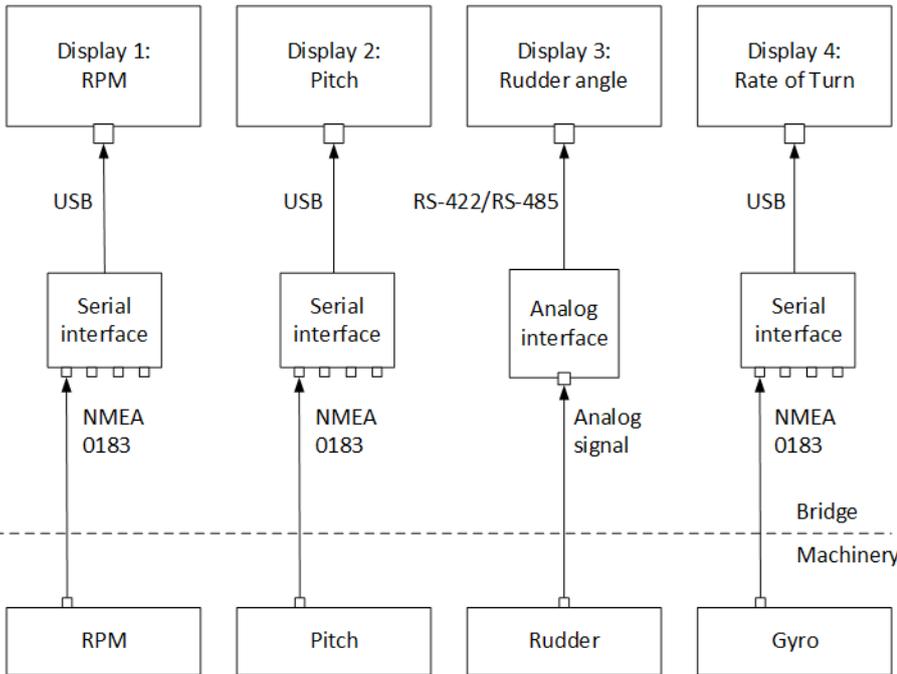
- 1 x Ethernet RJ45 / LAN (10/100Mbps)
- 1 x Ethernet RJ45 / LAN (10/100/1000Mbps)

The Ethernet ports enable connection to process LANs on the bridge.

13" Display

Resolution: 1280 x 800 (WXGA)
 Colours: 16,7 million (24bit)
 Viewing angle: 60 deg. (up/down)
 70 deg. (left/right)
 (typical)
 Contrast ratio: 800:1 (typical)
 Dimensions: 355 x 248.50 x 72.20 mm

Figure 2: MED-certified configurations



Specifications subject to change without any further notice.

403300/A

