KUS
Marine Products
CATALOG

Sensing Quality, Gauging Success!

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Company Introduction

Over 30 Years of Engineering and Manufacturing Success!

KUS' story begins with a fuel level sender. In 1984, our company's founder was having problems with the quality of the fuel level sensors that were offered in the market. He then developed the world's first reed switch liquid level sender for marine applications. The product took off and quickly became a top seller due to its reliability, accuracy, and durability.

After the global success of KUS' initial reed switch level sender, a series of product innovations followed. KUS began developing more complex, integrated liquid level senders for the medium and heavy-duty commercial vehicle industry. Its core product offerings include liquid level sensors and Diesel Exhaust Fluid (DEF)/AdBlue sending units, quality sensors, and tank assemblies. KUS develops and manufactures a range of application solutions for the Marine, Vehicle, and Industrial industries.

KUS Asia

Dongguan, China

Hefei, China

Guangzhou, China

Hsinchu, Taiwan

Pune, India

Chennai, India

KUS Europe

KUS Americas

Eindhoven, Netherlands

Davie, Florida, USA

Escobedo, Mexico

NMEA 2000

The NMEA 2000 network is a Controller Area Network (CAN) bus technology that is becoming more widely adapted by the marine industry for boats and yachts of all sizes. It is a plug and play network with no master nodes to configure, and can support hot swappable devices.

The NMEA 2000 network consists of a network of certified devices, backbone with terminal plugs at both ends, drop tees, and drop lines branching from the backbone to each of the network devices.

Sea N Series

Features

- NMEA 2000 certified/compatible
- LCD displays all available data and alarms on NMEA 2000 engines
- Reads data from NMEA 2000 and CAN Bus network
- Key engine parameters supported
- Double layer reinforced anti-fogging glass
- Options of red and blue background light, also customizable
- IP67 waterproof
- Fully readable under sunlight
- Plug and play connectors
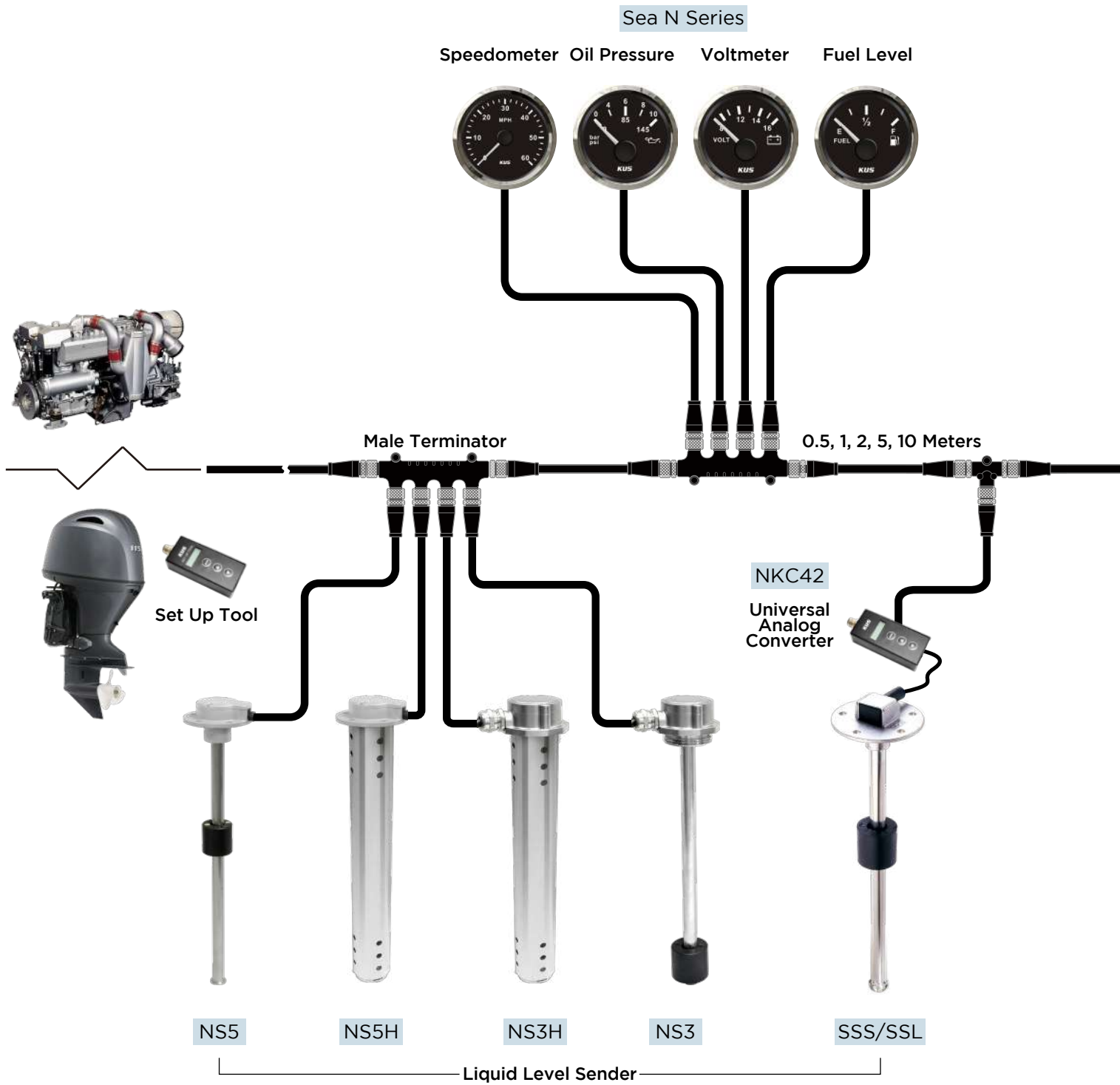
NMEA 2000 Network Integration System

Sea N Series

Speedometer Oil Pressure Voltmeter Fuel Level

Male Terminator

0.5, 1, 2, 5, 10 Meters

Set Up Tool

NKC42

Universal Analog Converter

NS5 NS5H NS3H NS3 SSS/SSL

Liquid Level Sender

NMEA 2000 Network Integration System

KMB Series

Multi-Functional
Instrument Panel

KMG Series

Multi-Functional
LCD Gauge

Sea N Series

Water
Temperature

Water
Level

Holding
Tank

Tachometer

GPS
Receiver

0.5, 1, 2, 5, 10 meters

NKC43

Universal
Analog
Converter

NKC42

Universal
Analog
Converter

Level Sensor

Rudder Angle
Sensor

Temperature
Sensor

Pressure
Sensor

S3U

Liquid Level
Sender

SEA N Series

Fuel Level	Water Level

Model No. NMFR

NMEA 2000 Certified
Empty - Full | 12V/24V | Ø52mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Model No. NMWR

NMEA 2000 Certified
Empty - Full | 12V/24V | Ø52mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Tachometer

Model No. NMHB

NMEA 2000 Certified
0-7000 RPM | 12V/24V | Ø85mm
Parameters Supported: Engine RPM / Coolant Temperature / Engine Hours / Oil Pressure / Trim / Fuel Rate / Fuel Tank 1 - 4

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

SEA N Series

Oil Pressure	Voltmeter

Model No. NMPR

NMEA 2000 Certified
0-10 Bar | 12V/24V | Ø52mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Model No. NMVR

NMEA 2000 Certified
8-16 V | 12V/24V | Ø52mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Speedometer

Model No. NMOB

NMEA 2000 Certified
0-60 MPH | 12V/24V | Ø85mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

SEA N Series

Water Temperature	Holding Tank	Rudder Angle
Model No. NMTR	**Model No. NMGR**	**Model No. NMRR**
NMEA 2000 Certified	NMEA 2000 Certified	NMEA 2000 Compatible
104-248°F (40-120°C) | 12V/24V | Ø52mm	Empty - Full | 12V/24V | Ø52mm	R-L | 12V/24V | Ø52mm

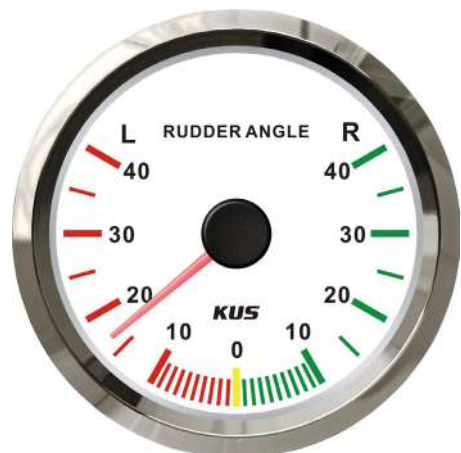| Stainless Steel Bezel Black Face	Stainless Steel Bezel Black Face	Stainless Steel Bezel Black Face
Stainless Steel Bezel White Face	Stainless Steel Bezel White Face	Stainless Steel Bezel White Face

Rudder Angle

Model No. NMRB

NMEA 2000 Compatible
R-L | 12V/24V | Ø85mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

SEA N Series

Rudder Angle Sensor

Features

1. Non-contact sensing, long service life
2. Standard NMEA 2000 network transmission
3. 12-bit angular resolution

Specifications

1. Measuring Range: ±165 degrees
2. Working Voltage: 9 - 32V
3. Working Current: < 60mA
4. Working Temperature: -40°F to 185°F (-40°C to +85°C)
5. Protection Rating: IP67

NMEA 2000 Cables and Connectors

Female Connector Cable
0.5 M / 1 M

Double Male Connector Cable
1 M

Double Female Connector Cable
1 M

Double Connector Cable with Male and Female
1 M

Connector Cable, One End with M12 5-Pin Male Connector and Other End with 4-Core Shielded Cable
1 M / 5 M

Extended Cable with Male and Female Connector for 52 mm
1 M / 5 M / 10 M

Connector Cable, Both Ends with Female Connector
0.5 M / 1 M

T Backbone Connector 90 Degree
39.3 mm x 20 mm

T Backbone Connector 180 Degree
55.8 mm x 20 mm

Male Terminator
Ø12 x 44.4 mm

Female Terminator
Ø12 x 43.3 mm

SEA N Series

Universal Analog Converters

KUS Universal Analog Converters attach directly into NMEA 2000 network of compatible engines, transmissions, generator sets and convert the resistance signals to the NMEA 2000 or CAN Bus data. They can be used for engine data, tank levels, alarm status, generic pressures and temperature indications from any resistive sensors.

	NKC42	NKC43	NKC42-6
Dimensions	90 x 40 x 25 mm	70 x Ø27 mm	93 x 42 x 25 mm/ 90 x 40 x 25 mm
Protection Rating	IP67		
Signal Output	NMEA 2000		
Operating Voltage	8V - 32V		9V - 16V
Connector	Male Micro-C Pinot		
Operating Temperature	-40°F to +185°F (-40°C to +85°C)		-31°F to +167°F (-30°C to +75°C)
Max Current	50mA		

NJ/JN Gateway

NJ Gateway is used for converting the engine speed, oil pressure, temperature, and voltage data in the NMEA 2000 network into the corresponding information in the J1939 network.

JN gateway is used for converting the engine speed, oil pressure, temperature, and voltage data in the J1939 network into the corresponding information in the NMEA 2000 network.

Dimensions	94 x 40 x 32 mm
Protection Rating	IP65
Weight	76 g
Operating Voltage	9V - 16V
Power Consumption	< 50mA
Load Equivalence Number (LEN)	1
Operating Temperature	-22°F to +167°F (-30°C to +75°C)
Storage Temperature	-40°F to +176°F (-40°C to +80°C)

SEA N Series

NMEA 2000 Bluetooth Gateway

A plug and play NMEA 2000 gateway that can send real-time engine data via bluetooth. All data can be transferred to the NMEA 2000 network and viewed on mobile devices.

The corresponding software will display network data including fuel/water tank level, engine data, voltage, vessel course, speed, position, wind speed and direction, water depth.

Features

1. Built-in bluetooth, easy installation with standard micro-connector
2. Plug and play without any other devices
3. Customized data
4. Option to transmit via Wi-Fi or Bluetooth

Specifications

Dimensions	60 x 40 x 20 mm
Protection Rating	IP67
Material	Plastic
Operating Voltage	9 V - 16 V
Power Current	45mA
Installation	Micro-C
Protection Rating	IP67

Set Up Tool

KUS Sea N series gauges and level sensors have several configurable parameters, including the default values. If you would like to use parameters outside of the default values, you will need to use the Set Up Tool to configure the gauges and level sensors.

GPS Receiver

GPS Receiver receives satellite signals and provides high-precision, real-time location information to the NMEA 2000 network.

Multi-Functional LCD Gauge

KMG-20T

The KMG-20T is a multi-functional digital instrument that displays functions including voltage, fuel level, water level, water temperature, oil temperature, oil pressure, holding tank and trim on one gauge.

It includes a stainless-steel cover to ensure corrosion resistance. Dial, data and instances can be set correspondingly through touch screen or the mobile app. The unit is compatible with NMEA 2000 network and analog signals.

RoHS Compliant ✓   CE   SAE J1939®   IP67

KMG-20T

Features

1. Integrates ten different instrument functions

Digital Oil Pressure	Digital Fuel	Digital Water	Digital HTG	Oil Pressure (5Bar)	Tachometer (8K)	Tachometer (4K)	Rudder

Trim	Voltmeter (12V)	Water Temperature	Oil Temperature	Oil Pressure (10Bar)	Tachometer (6K)	4 in 1 multifunction

2. Compatible with NMEA 2000 and 2 analog inputs (1 for resistance, 1 for speed)
3. Offers black or white gauge dial colors
4. Touch screen or download mobile app to complete the instrument instances and firmware upgrade
5. Alarm Functions: Voltmeter (10 V), Fuel (10%), Water Level (10%), Water Temperature (95°C/203°F), Oil Temperature (100°C/212°F), Oil Pressure (1.0 Bar), Holding Tank (80%), customizable
6. 10% - 100% backlight brightness
7. IP67 protection rating

Specifications

- Display Dimentions: Ø 51 mm / Ø 2 inches
- Mounting Dimensions: Ø 52 mm / Ø 2 inches
- Working Voltage: 9-32 VDC
- Working Current: ≤100mA (12V)
- Resolution: 480 x 480 pixels
- Operation Method: Touch Screen and Mobile App
- Working Temperature: -20°C to +70°C / -4°F to +158°F
- Storage Temperature: -30°C to +80°C / -22°F to +176°F
- Accessories: 1 M 5-core CAN cable, 1 M 6-core analog cable, instructions manual

Ø78.9mm
Ø51mm
60.2mm
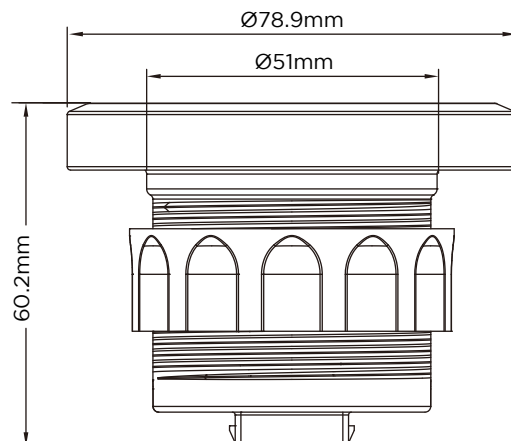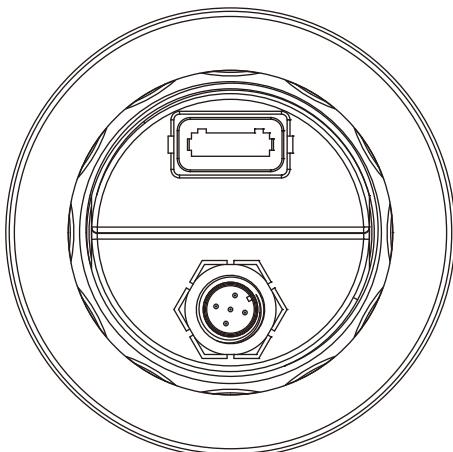
KMG-30K

The KMG-30K is a multi-functional digital instrument that displays functions including voltage, fuel level, water level, water temperature, oil temperature, oil pressure, holding tank and trim on one gauge.

The instrument comes in a stainless-steel cover with a black dial and two styles of interface. The connection, data and instances can be set to CAN Bus or analog signal input. The unit is NMEA 2000 certified.
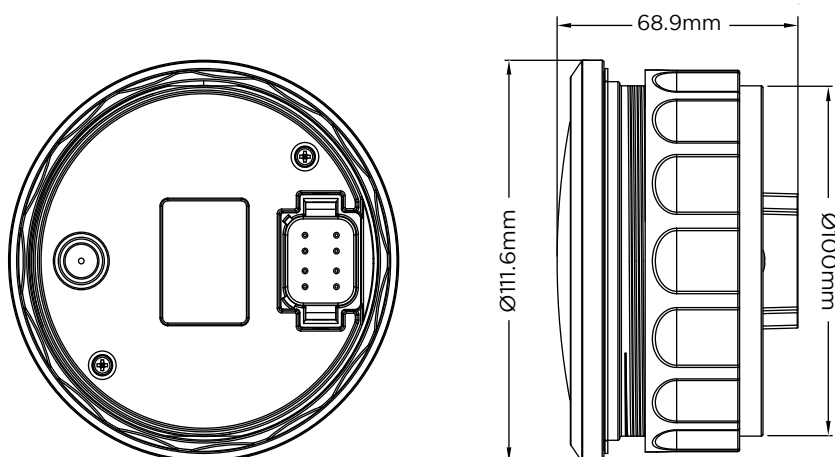
KMG-30K

Features

1. Compatible with NMEA 2000 and supports 4 different analog signal inputs (Tachometer Sensor, Fuel, Water Temperature and Oil Pressure Sensor), 6 or 10 analog signals can be customized
2. For NMEA 2000, the instance number needs to be set up on the KMG
3. Supports night display mode and DM1 Diagnostics
4. Alarm Functions: Fuel (10%), Water temperature (95°C/203°F), Oil pressure (0.7 bar/10 psi), customizable
5. Offers black or white panel colors
6. Backlight Brightness: 10%-100%
7. Protection Rating: IP67

Specifications

- Display Dimentions: Ø 76 mm / Ø 3 inches
- Mounting Dimensions: Ø 100 mm / Ø 3.9 inches
- Working Voltage: 9-32 VDC
- Working Current: ≤170mA (12V)
- Resolution: 432 x 432 pixels
- Operation Method: Front Button (Up-Model-Down, 3 buttons to set up the function)
- Working Temperature: -30°C to +85°C / -22°F to +185°F
- Storage Temperature: -30°C to +85°C / -22°F to +185°F
- Accessories: 1 M 5-core CAN cable, 1 M 6 cores analog cable, instructions manual

68.9mm

Ø111.6mm   Ø100mm

Multi-Functional LCD Gauge

KMG-30T

The KMG-30T is a multi-functional digital instrument that displays functions including oil level, oil pressure, tachometer, speedometer, and oil and water temperature in one device.

The instrument comes in a stainless-steel cover with a black dial and touch screen. The connection, data and instances can be set to CAN Bus or analog signal input. The unit is compatible with NMEA 2000 network and analog signals.
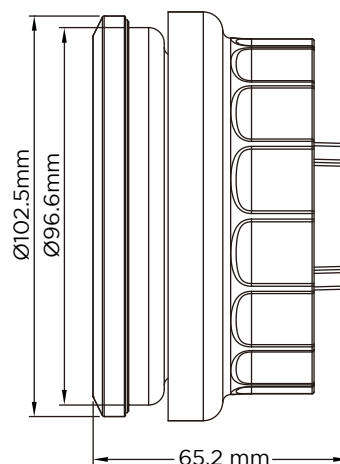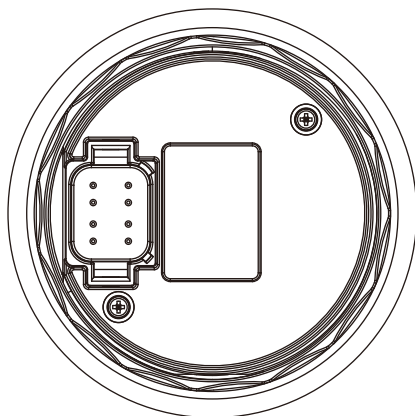
RoHS Compliant ✓   C E   SAE J1939®   IP67

KMG-30T

Features

1. Two display options:
   - Model 1: Speed, COG, Voltage, Fuel Level, Engine Temperature, Oil Pressure, Engine Hours
   - Model 2: RPM, Voltage, Fuel Level, Engine Temperature, Oil Pressure, Engine Hours
2. Compatible with NMEA 2000 and supports 4 different analog signal inputs (Tachometer Sensor, Fuel, Water Temperature and Oil Pressure Sensor)
3. For NMEA 2000, the instance number needs to be set up on the KMG
4. For analog signal, optional scope can be set up by customer
   - Fuel Level (0 - 190ohm, 240 - 33ohm or customized)
   - Oil Pressure (10 - 185ohm or customized)
   - Water Temperature (301 - 23ohm or customized)
   - Speed Ratio: (0.5 - 250.0)
5. Alarm Functions: Fuel (10%), Water Temperature (95°C/203°F), Oil Pressure (0.7 Bar/10 psi), customizable
6. 10% - 100% backlight brightness
7. IP67 protection rating

Specifications

- Display Dimentions: Ø 76 mm / Ø 3 inches
- Mounting Dimensions: Ø 97.5 mm / Ø 3.8 inches
- Working Voltage: 9-32 VDC
- Working Current: ≤170mA (12V)
- Resolution: 432 x 432 pixels
- Operation Method: Touch Screen
- Working Temperature: -30°C to +85°C / -22°F to +185°F
- Storage Temperature: -30°C to +85°C / -22°F to +185°F
- Accessories: 1 M 5-core CAN cable, 1M 6 cores analog cable, instructions manual

Ø102.5mm
Ø96.6mm
65.2 mm

Multi-Functional LCD Gauge

KMG-42T

The KMG-42T is a multi-functional digital instrument that displays functions including oil level, oil pressure, tachometer, speedometer, and oil and water temperature in one device.

The instrument comes in a stainless-steel cover with a black dial and touch screen. The connection, data and instances can be set to CAN Bus or analog signal input. The unit is NMEA 2000 certified.

RoHS Compliant ✓   CE   SAE J1939®   IP67

KMG-42T

Features

1. Two display options:
   - Model 1: Speed, RPM, Voltage, Fuel level, Engine temperature, Oil pressure, Engine work hours, Time
   - Model 2: Speed, RPM, Voltage, Fuel level, Engine temperature, Oil pressure, Engine work hours, Time
2. Compatible with NMEA 2000 and supports 4 different analog signal inputs (Tachometer Sensor, Fuel, Water Temperature and Oil Pressure Sensor)
3. For NMEA 2000, the instance number needs to be set up on the KMG
4. For analog signal, optional scope can be set up by customer
   - Fuel Level (0 - 190 ohm, 240 - 33 ohm or customized)
   - Oil Pressure (10 - 185 ohm or customized)
   - Water Temperature (301 - 23ohm or customized)
   - Speed Ratio: (0.5 - 250.0)
5. Alarm Functions: Fuel (10%), Water Temperature (95°C/203°F), Oil Pressure (0.7 Bar/10 psi), customizable
6. 10% - 100% backlight brightness
7. IP67 protection rating

Specifications

- Display Dimentions: Ø 106 mm / Ø 4.2 inches
- Mounting Dimensions: Ø 134.5 mm / Ø 5.3 inches
- Working Voltage: 9-32 VDC
- Working Current: ≤330mA (12V)
- Resolution: 720 x 720 pixels
- Operation Method: Touch Screen
- Working Temperature: -30°C to +85°C / -22°F to +185°F
- Storage Temperature: -30°C to +85°C / -22°F to +185°F
- Accessories: 1 M 5-core CAN cable, 1 M 6-core analog cable, instructions manual
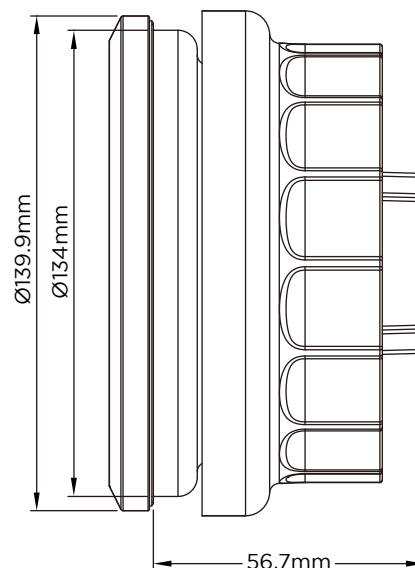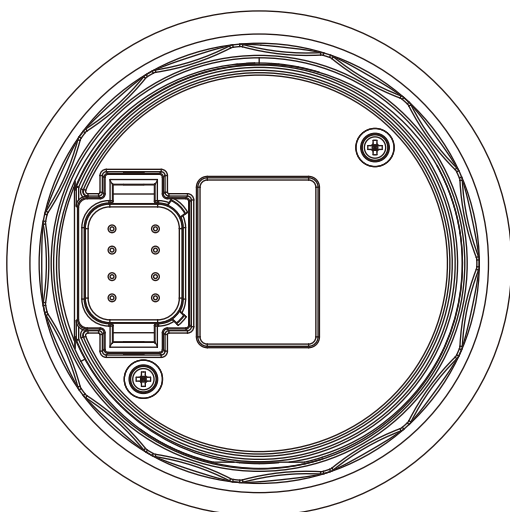
Multi-Functional Gauge

SMG-13K

SMG-13K is a multi-functional gauge combining a round LCD screen and a stepping motor. It displays functions including fuel level, oil pressure, water temperature, RPM and speed.

The instrument includes a stainless-steel cover and supports multiple styles and dial color options. The unit is compatible with NMEA 2000 and analog signals.

RoHS Compliant ✓   CE   SAE J1939®   IP67

SMG-13K

Features

1. Various display styles

2. Compatible with NMEA 2000 and supports 4 different analog signals (Speed, Fuel Level, Water Temperature and Oil Pressure) and GPS speed input

3. For analog signals, custom settings available:
   - Fuel Level (0 - 190 ohm, 240 - 33 ohm or customized)
   - Trim (0 - 190 ohm, 160 - 10 ohm or customized)
   - Oil Pressure Alarm (low switch signal alarm)
   - Water Temperature Alarm (low swtich signal alarm)
   - Speed Ratio: (0.1 - 24.0)

4. IP67 protection rating

Specifications

- Display Dimentions: Ø 32.5 mm / Ø 1.28 inches
- Mounting Dimensions: Ø 85 mm / Ø 3.35 inches
- Working Voltage: 9-32 VDC
- Working Current: ≤180mA (12V)
- Resolution: 240 x 240 pixels
- Operation Method: Front Button
- Working Temperature: -30°C to +70°C / -22°F to +158°F
- Storage Temperature: -40°C to +80°C / -40°F to +176°F
- Accessories: 1 M 5-core CAN cable, 1 M 6-core analog cable, GPS receiver, instructions manual

Ø96.6mm

Ø85mm

70.4mm
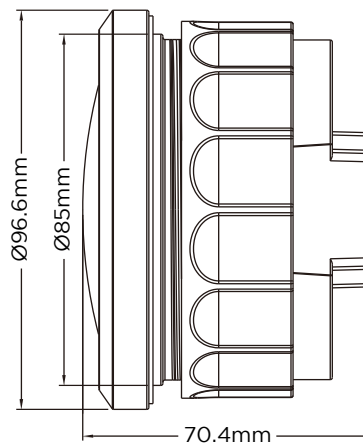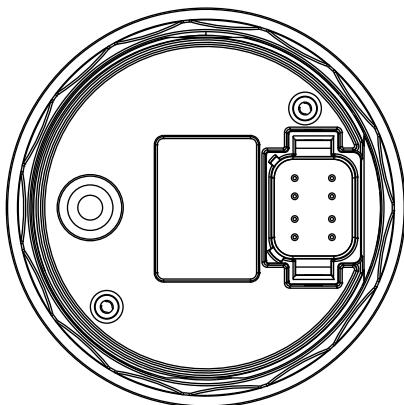
Digital Instrument Panel

KMB-43

The KMB-43 is an integrated data monitor with an advanced TFT (Thin Film Transistor) screen. The panel displays real time network information including engine output, fluid levels, and speed. KUS can customize the unit to meet customer requirements.

This unit is a perfect fit for marine applications that monitor information on the NMEA 2000 network.

RoHS Compliant ✓   CE   SAE J1939®   IP67

KMB-43

Features

1. 32-bit Cortex-M3 core + high-speed FPGA framework

2. Fast start-up speed

3. An easy to use and switchable interface that supports multiple languages

4. A bright high-resolution screen display that can be seen in direct sunlight

5. Compatible with NMEA 2000 including KUS Sea N series products

6. Display modes:

7. Monitoring Data:

- Engine: Speed, Trim, Coolant Water Temperature, Oil Pressure, Hours
- Navigation: Course Over Ground (COG), Speed Over Ground (SOG)
- Fluid Management: Fuel Level, Fresh Water Level, Black Water Level
- Rudder Position and Battery Voltage

Specifications

- Display Width: 109 mm / 4.3 inches
- Working Voltage: 9-32 VDC
- Working Current: 300mA (12V)
- Resolution: 480 x 272 pixels
- Operation Method: Touch Screen
- Working Temperature: -20°C to +70°C / -4°F to +158°F
                          Touch Screen -20°C to 60°C / -4°F to +140°F
- Cable Accessories: Standard 1 M length cable
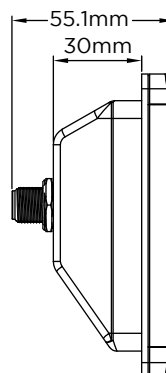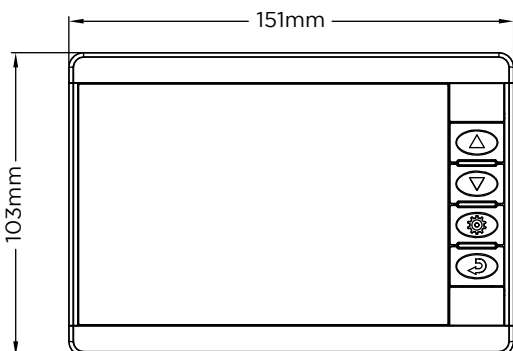
Digital Instrument Panel

KMB-70

The KMB-70 is an integrated data monitor with an advanced TFT (Thin Film Transistor) screen. The panel displays real time network information including engine output, fluid levels, and speed. KUS can customize the unit to meet customer requirements.

This unit is a perfect fit for marine applications that monitor information on the NMEA 2000 network.

KMB-70

Features

1. 32-bit Cortex-M3 core + high-speed FPGA framework
2. Fast start-up speed
3. An easy to use and switchable interface that supports multiple languages and data
4. 10% - 100% brightness adjustment
5. A bright high-resolution screen display that is readable in direct sunlight
6. Compatible with NMEA2000 including KUS Sea N series products
7. Display modes:

7. Monitoring Data:

- Engine: Speed, Trim, Coolant Water Temperature, Oil Pressure, Hours
- Navigation: Course Over Ground (COG), Speed Over Ground (SOG)
- Fluid Management: Fuel Level, Fresh Water Level, Black Water Level
- Rudder Position and Battery Voltage

Specifications

- Display Width: 177 mm / 7 inches
- Working Voltage: 9-32 VDC
- Working Current: 400mA (12V)
- Resolution: 800 x 480 pixels
- Operation Method: Touch Screen
- Working Temperature: -20°C to +70°C / -4°F to +158°F
                           Touch Screen -20°C to 60°C / -4°F to +140°F
- Cable Accessories: Standard 1 M length cable
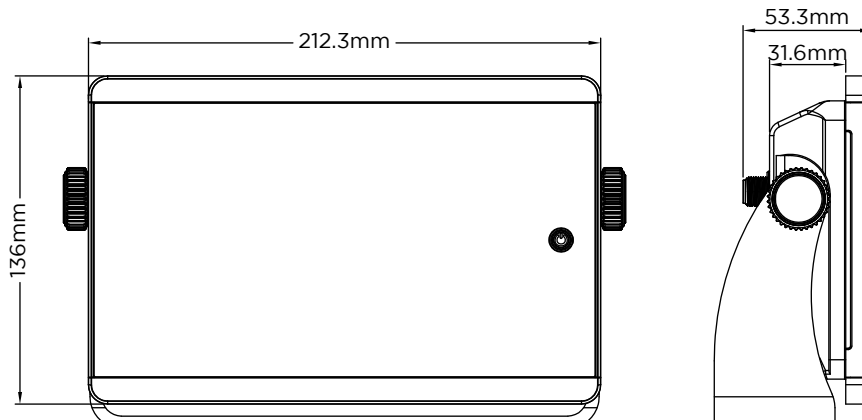
Instrumentation Gauges

The instrumentation gauges are widely used in marine, on-road, off-road, and industrial applications. Our gagues have passed environmental and vibration tests to ensure product durability.

We offer a variety of standard products and can work with customers to design, validate, and manufacture custom solutions.

Features

Double layer reinforced anti-fogging glass
316 Stainless steel bezel with convex glass
Options of red or yellow backlight

Sea V Series

- IP67 protection rating on the entire gauge, work up to 1 M underwater
- Easy installation with multi-socket connection
- Default working voltage is 12V
    - Compatible with 24V for stepping motor and LCD type gauges
    - Cross coil type gauges require an extra resistor to work with 24V

Sea Q Series

- IP67 protection rating in front and IP65 on the back
- Quick and easy installation by terminal
- Work with both 12V and 24V
- Compatible with 24V for stepping motor and LCD type gauges

Please see page 9 for differences between Sea V and Sea Q Series

Fuel Level Gauges

Analog

Sea V Series

Model No.
CPFR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea Q Series

Model No.
FPFR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face

Digital Display

Sea V Series

Model No.
CEFR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea Q Series

Model No.
FEFR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face

8 LED

Sea V Series

Model No.
CDFR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Please see page 9 for differences between Sea V and Sea Q Series

Water Level Gauges

Analog

Sea V Series

Model No.
CPWR

0-190Ω | 240-33Ω
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea Q Series

Model No.
FPWR

0-190Ω | 240-33Ω
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face

8 LED

Sea V Series

Model No.
CDWR

0-190Ω | 240-33Ω
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Voltmeter

Analog

Sea V Series

Model No.
CPVR

0-190 Ω | 240-33 Ω
12V/24V
Ø52mm
Display Range:
8V-16V | 18V-32V

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea Q Series

Model No.
FPVR

0-190Ω | 240-33Ω
12V/24V
Ø52mm
Display Range:
8V-16V | 18V-32V

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face

Please see page 9 for differences between Sea V and Sea Q Series

Voltmeter

Digital Display

Sea V Series

Model No.
CEVR
0-190Ω | 240-33Ω
12V/24V
Ø52mm
-
Display Range:
9V-32V

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Sea Q Series

Model No.
FEVR
0-190Ω | 240-33Ω
12V/24V
Ø52mm
-
Display Range:
9V-32V

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face |

Holding Tank

Analog

Sea V Series

Model No.
CPGR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Sea Q Series

Model No.
FPGR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face |

8 LED

Sea V Series

Model No.
CDGR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Trim

Analog

Sea V Series

Model No.
CPIR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Sea V Series

Model No.
CPIR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Sea V Series

Model No.
ZMIR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Black SS Bezel Black Face |

Sea Q Series

Model No.
FPIR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face |

Sea Q Series

Model No.
FPIR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face |

Water Temperature

Analog

Sea V Series

Model No.
CPTR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea Q Series

Model No.
FPTR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face

Digital Display

Sea V Series

Model No.
CETR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea Q Series

Model No.
FETR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face

Oil Temperature

Analog

Sea V Series

Model No.
CPYR
0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Please see page 9 for differences between Sea V and Sea Q Series

Oil Temperature

Analog

Sea Q Series

Model No.
FPYR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Oil Pressure

Analog

Sea V Series

Model No.
CPPR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Sea Q Series

Model No.
FPPR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

Stainless Steel Bezel
Black Face

Black SS Bezel
Black Face

Black SS Bezel
Black Face

Digital Display

Sea V Series

Model No.
CEPR

0-190Ω | 240-33Ω
12V/24V
Ø52mm
Display Range:
0 - 5 Bar | 0 - 10 Bar

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Sea Q Series

Model No.
FEPR

0-190Ω | 240-33Ω
12V/24V
Ø52mm
Display Range:
0 - 5 Bar | 0 - 10 Bar

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Please see page 9 for differences between Sea V and Sea Q Series

Tachometer

Analog

Sea V Series

Model No. CMHB

-

12V/24V

-

Ø85mm

-

Speed Ratio:
1.0-10.0
0.5-250.0

-

Display Range:
0-4000 RPM
0-6000 RPM
0-8000 RPM

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Sea Q Series

Model No. FMHB

-

12V/24V

-

Ø85mm

-

Speed Ratio:
1.0-10.0
0.5-250.0

-

Display Range:
0-4000 RPM
0-6000 RPM
0-8000 RPM

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Tachometer

Analog

Sea V Series

Model No.
CMHE
-
12V/24V
-
Ø85mm
-
Speed Ratio:
1.0-10.0
-
Display Range:
0-6000 RPM

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Digital Display

Sea V Series

Model No.
CCHB
-
12V/24V
-
Ø85mm
-
Speed Ratio:
1.0-10.0
0.5-250.0
-
Display Range:
0-8000 RPM

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Speedometer

Analog

Sea V Series

Model No.
CPOB

-
12V/24V
-
Ø85mm
-
Signal:
Pitot tube provides pressure signals
-
Display Range:
0-35 MPH
0-55 MPH
0-65 MPH

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Sea Q Series

Model No.
FPOB

-
12V/24V
-
Ø85mm
-
Signal:
Pitot tube provides pressure signals
-
Display Range:
0-35 MPH
0-55 MPH
0-65 MPH

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Pitot Tubes

White
P/N #: JYM1060

Black
P/N #: JKE00284

Speedometer

Analog

Sea V Series

Model No.
CMOB
-
12V/24V
-
Ø85mm
-
Signal:
Normal impulse
-
Display Range:
0-120 KM/H
0-200 KM/H

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Analog 60 MPH

Sea V Series

Model No.
CMSE
-
12V/24V
-
Ø110mm
-
Signal:
GPS
-
Display Range:
0-60 MPH

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Please see page 9 for differences between Sea V and Sea Q Series

Speedometer

GPS

Sea V Series

Model No.
CMSB
-
12V/24V
-
Ø85mm
-
Signal:
GPS
-
Display Range:
0-15 Knots
0-30 Knots
0-60 Knots

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Sea Q Series

Model No.
FMSB
-
12V/24V
-
Ø85mm
-
Signal:
GPS
-
Display Range:
0-15 Knots
0-30 Knots
0-60 Knots

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

GPS Antenna

Built-In
GPS Antenna

5 meters long GPS Antenna
included in the package

Speedometer

Digital Display GPS

Sea V Series

Model No.
CCSB
-
12V/24V
-
Ø85mm
-
Signal:
GPS
-
Display Range:
0-999 Knots

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Sea V Series

Model No.
CCSR
-
12V/24V
-
Ø52mm
-
Signal:
GPS
-
Display Range:
0-999 KM/H

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

GPS Antenna

Built-In
GPS Antenna

5 meters long GPS Antenna
included in the package

Please see page 9 for differences between Sea V and Sea Q Series

Rudder Angle

Analog

Sea V Series

Model No.
CMRR
87-900Ω | 0-190Ω
12V/24V
Ø52mm
-
Display Range:
R-L

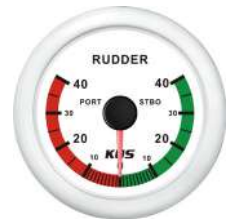|				
Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea V Series

Model No.
CMRR
0-190Ω
12V/24V
Ø52mm
-
Display Range:
R-L

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Sea V Series

Model No.
CMRB
0-190Ω
12V/24V
Ø85mm
-
Display Range:
R-L

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face

Black Plastic Bezel Black Face	White Plastic Bezel White Face

Rudder Angle

Analog

Sea V Series

Model No.
CMRB
0-190Ω
12V/24V
Ø85mm
-
Display Range:
R-L

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
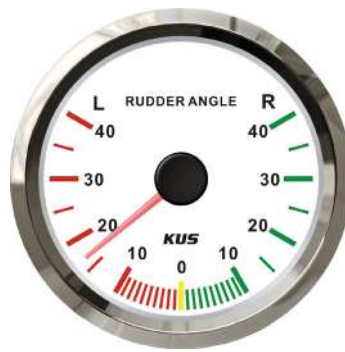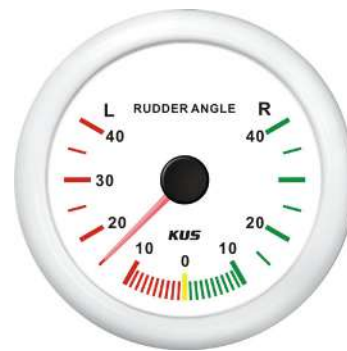Black Face

White Plastic Bezel
White Face

Sea V Series

Model No.
CMRB
12V/24V
Ø85mm
-
Signal:
0-5 K

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Please see page 9 for differences between Sea V and Sea Q Series

Rudder Angle

Analog

Sea Q Series

Model No.
FMRR

87-900Ω | 0-190Ω
12V/24V
Ø52mm
-
Display Range:
R-L

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Sea Q Series

Model No.
FMRB
0-190Ω
12V/24V
Ø85mm
-
Display Range:
R-L

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Hourmeter

Analog

Sea V Series

Model No.
CCUR

12V/24V
Ø52mm
0-99999

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Sea Q Series

Model No.
FCUR

12V/24V
Ø52mm
0-99999

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Ammeter

Analog

Sea V Series

Model No.
CMAR
12V/24V
Ø52mm
-
Match with KUS
Current Shut Unit

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Current Shut Unit

8-32 VDC

Digital Display

Sea V Series

Model No.
CEAR
12V/24V
Ø52mm
-
Match with KUS
Current Shut Unit

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Sea Q Series

Model No.
FEAR
12V/24V
Ø52mm
-
Match with KUS
Current Pickup Unit

| Stainless Steel Bezel Black Face | Black SS Bezel Black Face | Black SS Bezel Black Face |

Clock

Analog

Sea V Series

Model No.
CMCR
12V/24V
Ø52mm
-
12-HR Format

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Please see page 9 for differences between Sea V and Sea Q Series

Navigation Indicator

Analog

Sea V Series

Model No.
CONR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Alarm Indicator

3 LED

Sea V Series

Model No.
SSS-PAN

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Alarm Gauge

4 LED

Sea V Series

Model No.
CDQR

0-190Ω | 240-33Ω
12V/24V
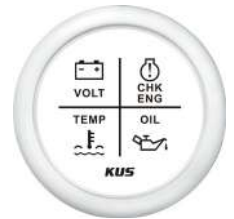Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face | Black Plastic Bezel Black Face | White Plastic Bezel White Face |

Sea Q Series

Model No.
FDQR

0-190Ω | 240-33Ω
12V/24V
Ø52mm

| Stainless Steel Bezel Black Face | Stainless Steel Bezel White Face | Black SS Bezel Black Face |

Exhaust Temperature Meter

Analog

Sea V Series

Model No.
CMTR

12V/24V
Ø52mm
-
Display Range:
0-800/0-200

Stainless Steel Bezel Black Face	Stainless Steel Bezel White Face	Black SS Bezel Black Face	Black Plastic Bezel Black Face	White Plastic Bezel White Face

Exhaust Temperature Sensor

32°F to 1472°F (0°C to 800°C) | 32°F to 392°F (0°C to 200°C)

Multi-Functional

3 in 1

Sea V Series

Model No.
CMQE

12V/24V
Ø110mm
-
Signal:
Fuel Level: 0-180 ohm
Voltage: 8-16V
Tachometer: 0-6000 RPM
-
Display Range:
Fuel Level: Empty-Full
Voltage: 8-16V
Tachometer: 0-6000 RPM

4 in 1

Sea V Series

Model No.
CMQE

12V/24V
Ø110mm
-
Signal:
Oil Pressure: 240-33 ohm
Fuel Level: 240-33 ohm
Voltage: 8-16V
Water Temperature: 328-22 ohm
-
Display Range:
Oil Pressure: 0-80 psi
Fuel Level: Empty-Full
Voltage: 8-16V
Water Temperature: 0-250°F

Multi-Functional

Digital Display 3 in 1

Sea V Series

Model No.
CP3-WGV
0-190ff
9V-32V
Ø52mm
-
Signal:
Water Level: 0-190 ohm
Black Water Level: 0-190 ohm
Voltage: 9V-32V
-
Display Range:
Water Level: 0% - 100%
Black Water Level: 0% - 100%
Voltage: 9V-32V

Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Digital Display 4 in 1

Sea V Series

Model No.
P4-VTPR
-
12V/24V
-
Ø85mm
-
Signal:
Water Temperature: 301-23 ohm
Oil Pressure: 10-185 ohm
Tachometer: 0-6000 RPM
Speed Ratio: 0.5-250
-
DIsplay Range:
Voltage: 9-32V
Water Temperature: 40-120°C
Oil Pressure: 0-1 MPa
Tachometer: 0-6000 RPM

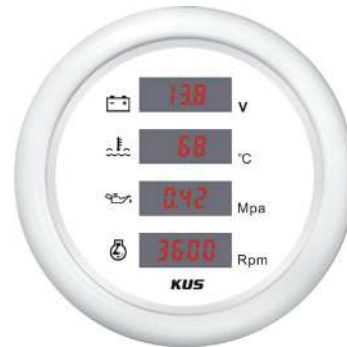Stainless Steel Bezel
Black Face

Stainless Steel Bezel
White Face

Black SS Bezel
Black Face

Black Plastic Bezel
Black Face

White Plastic Bezel
White Face

Gauge Panels

KUS offer gauge panels that are designed to meet customer needs. They allow easy assembly and convenient routine maintenance. Acousto-optic alarming, over current protection, over voltage protection and other features are integrated in the gauge panels.

The gauge panels' color, size, functions and working voltage of 12V or 24V can be customized. Contact us for more information and product offerings.

Sea Q Series

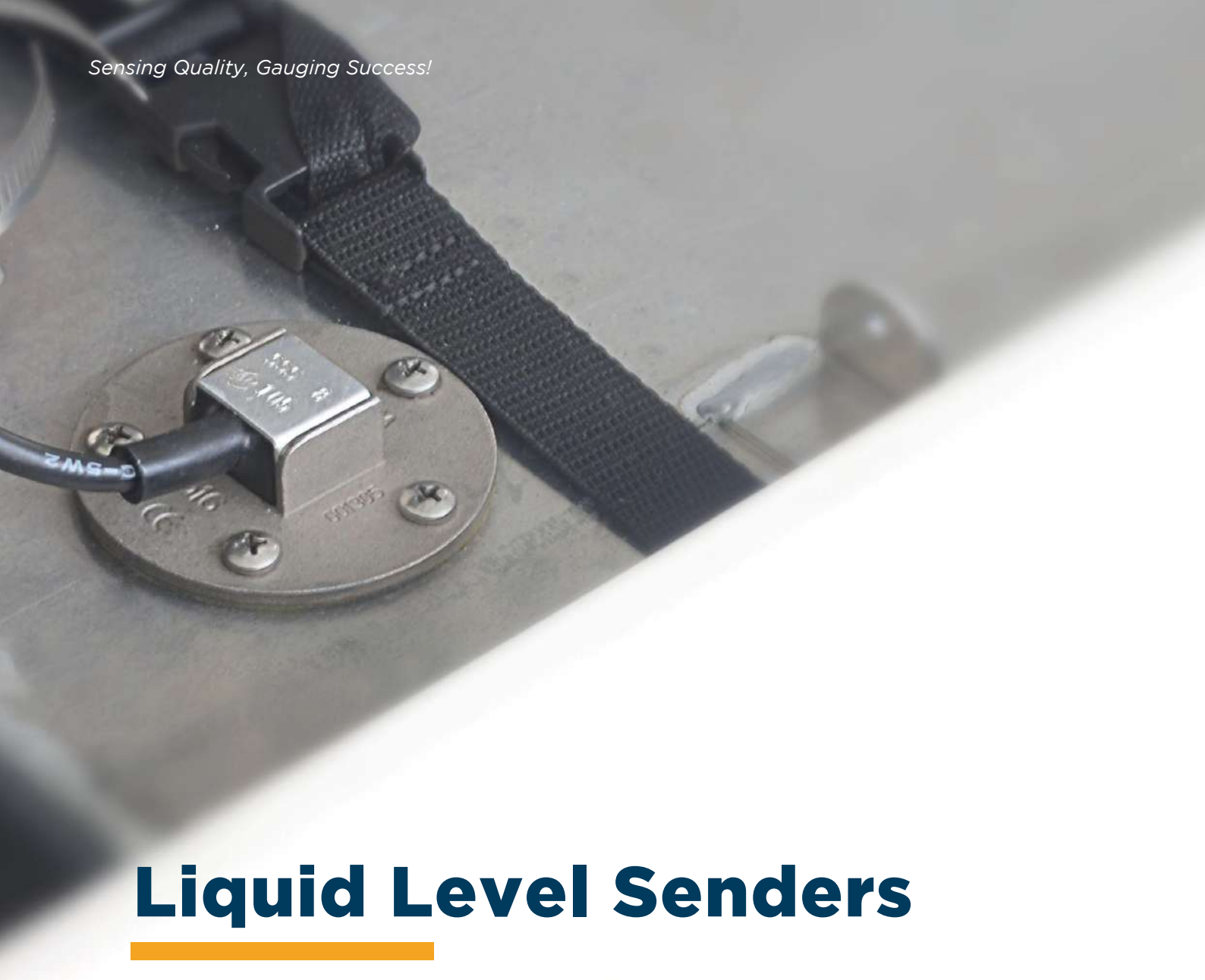## Model No. FPOB

-

12V/24V

-

Ø85mm

-

Signal:
Pitot tube provides pressure signals

-

Display Range:
0-35 MPH
0-55 MPH
0-65 MPH

Liquid Level Senders

KUS liquid level sending units are widely used in marine, on-road, off-road, and industrial applications. The liquid level sending unit utilizes reed switch and magnetic field technology.

The advantage of reed switch type level sending units over thick-film swing arm type level units is the reed switch's durability and reliability. The float is the only moving part on the reed switch level sending units, thereby minimizing potential mechanical failures.
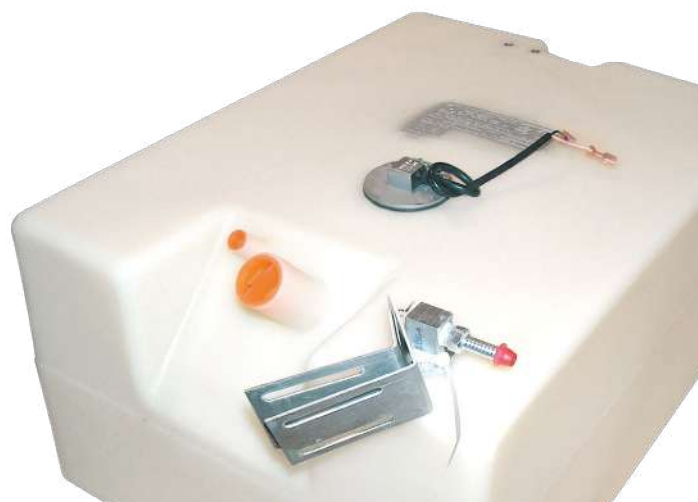
NS5

The NS5 series electronic liquid level senders utilize the stability and accuracy of KUS reed switch technology. It is a simple "plug and play" solution for providing fuel or water level signal to the NMEA 2000 network, without the need of additional converter or adapter.

Specifications

Material	SUS 316 Stainless Steel body, NBR float
Mounting	SAE 5 Hole Pattern
IP Rating	IP67
Signal Output	NMEA 2000 Network
Resolution	0.5" - 0.8" (10 mm - 21 mm)
Operating Temperature	-22°F to +176°F (-30°C to +80°C)
Lengths	4" - 78" (100 mm - 2000 mm), customizable
Accessories	M5 screws x 5 2 mm thick NBR gasket x 1

68°

72°

54

Ø36 - Ø42

M5-5
Depth > 12 mm

72°

68°
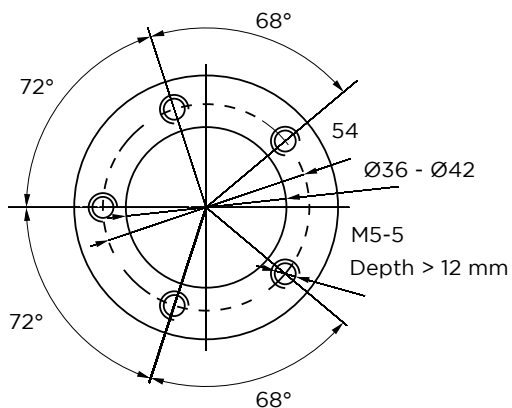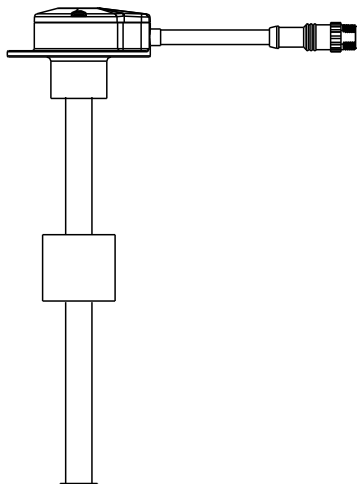
SSS/SSL

Specifications

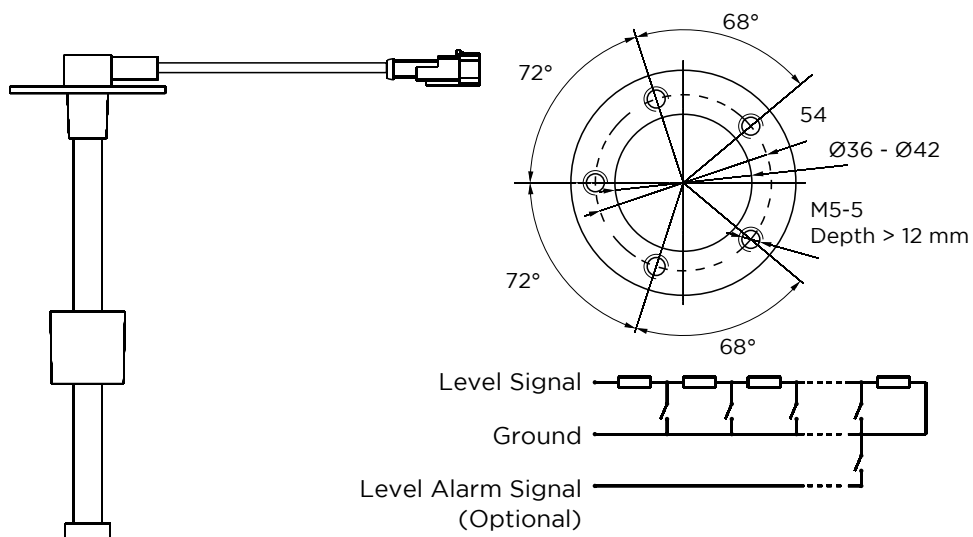|	
Material	SUS 316 Stainless Steel body, NBR float, PVC cable
Mounting	SAE 5 Hole Pattern
IP Rating	IP67
Signal Output	Resistance control signal American Standard 240-33 ohms European Standard 0-180 ohms
Resolution	0.5" - 0.8" (10 mm - 21 mm)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Lengths	4" - 78" (100 mm - 2000 mm), customizable
Accessories	M5 screws x 5 2 mm thick NBR gasket x 1

68°
72°
54
Ø36 - Ø42
M5-5
Depth > 12 mm
72°
68°

Level Signal
Ground
Level Alarm Signal
(Optional)

S3U

Specifications

Material	SUS 316 Stainless Steel body, NBR float, PVC cable
Mounting	BSP 1.25" Thread
IP Rating	IP67
Signal Output	Resistance control signal American Standard 240-33 ohms European Standard 0-180 ohms
Resolution	0.5" - 0.8" (10 mm - 21 mm)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Lengths	4" - 78" (100 mm - 2000 mm), customizable

Level Signal

Ground

Level Alarm Signal
(Optional)

S3HT

Specifications

Material	SUS 316 Stainless Steel body
Mounting	BSP 1.25" Thread
IP Rating	IP67
Signal Output	Resistance control signal American Standard 240-33 ohms European Standard 0-180 ohms
Resolution	0.5" - 1.5" (10 mm - 40 mm)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Lengths	4", 6", 8", 12", 16", customizable

Level Signal

Ground

Level Alarm Signal
(Optional)
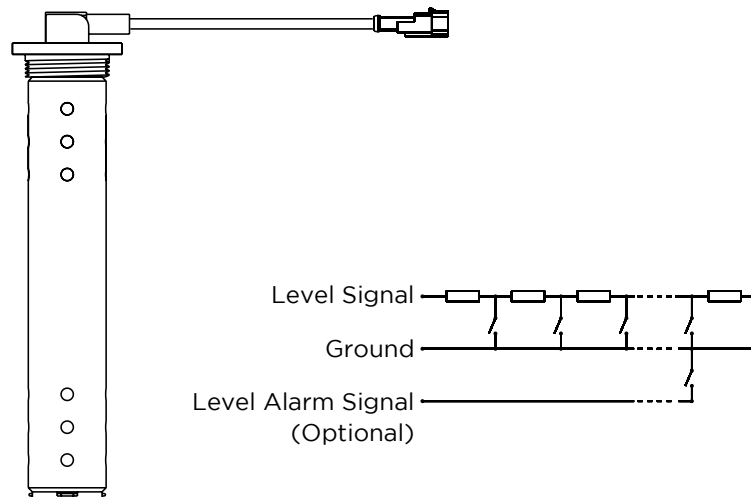
S5H

Specifications

Material	SUS 316 Stainless Steel body
Mounting	SAE 5 Hole Pattern
IP Rating	IP67
Signal Output	Resistance control signal American Standard 240-33 ohms European Standard 0-180 ohms
Resolution	0.5" - 1.5" (10 mm - 40 mm)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Lengths	4", 6", 8", 12", 16", 20", 30", customizable

Level Signal

Ground

Level Alarm Signal
(Optional)

SHS

Specifications

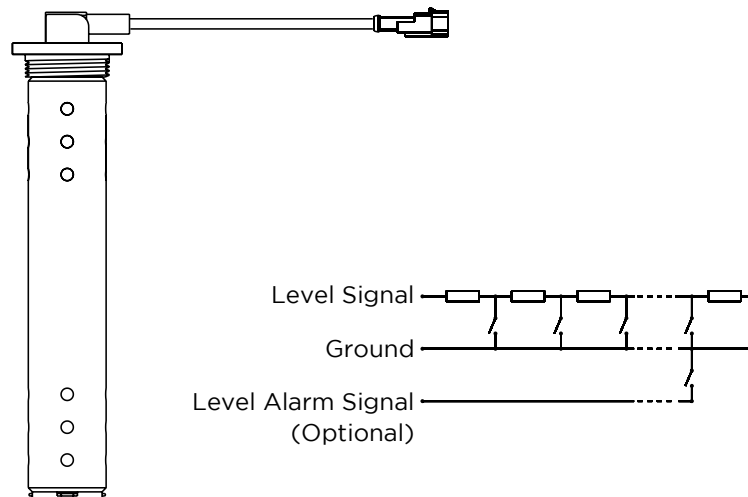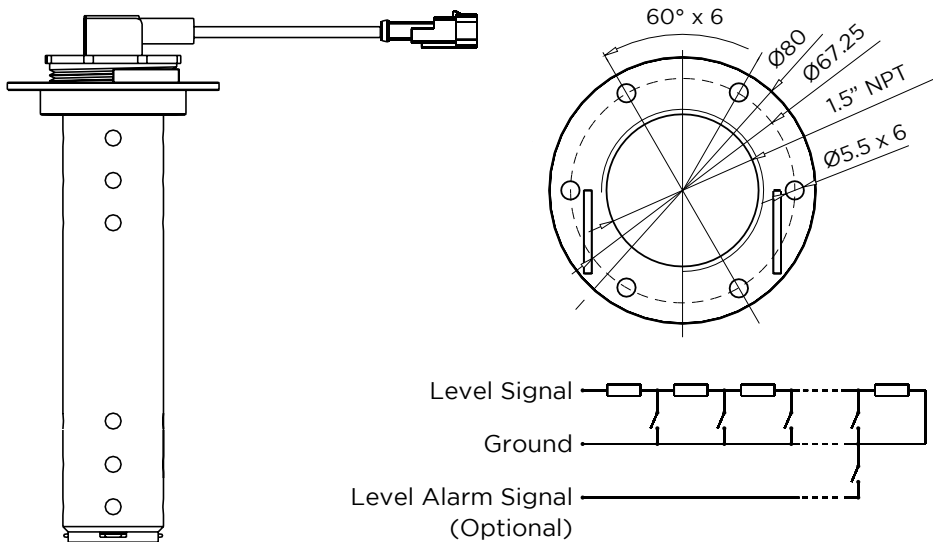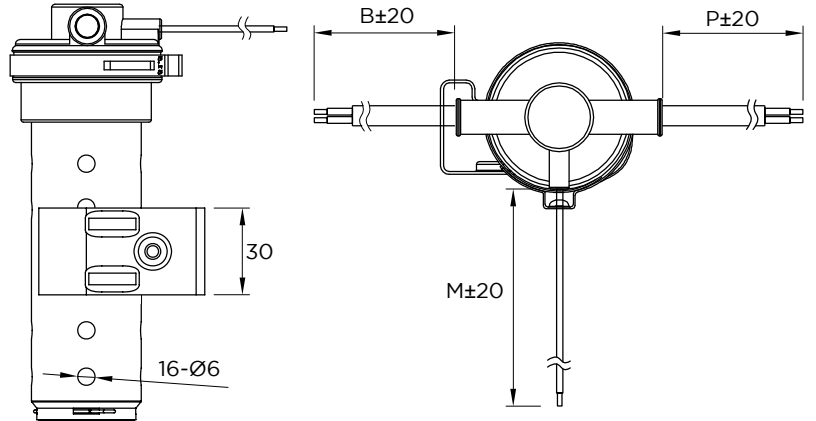|	
Material	SUS 316 Stainless Steel body, PVC wire
Mounting	NPT 1.5" Thread Twist-In
IP Rating	IP67
Signal Output	Resistance control signal American Standard 240-33 ohms European Standard 0-180 ohms
Resolution	0.5" - 1.5" (10 mm - 40 mm)
Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Lengths	4", 6", 8", 12", 16", 20", 30", customizable

60° x 6 Ø80 Ø67.25 1.5" NPT Ø5.5 x 6

Level Signal

Ground

Level Alarm Signal
(Optional)

PBK

Material	Length	Voltage	Mounting	Gasket	Connector
SS 316 Stainless Steel	4" (100 mm)	24V	BSP 1.25" Thread	NBR	NO
SS 316 Stainless Steel	4" (100 mm)	12 V	BSP 1.25" Thread	NBR	YES

OVG
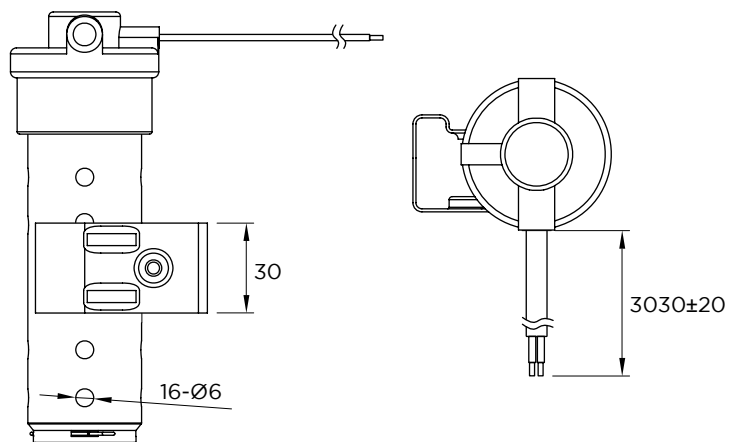
Material	Length	Voltage	Mounting	Gasket	Connector
SS 316 Stainless Steel	4" (100 mm)	12V/24V	BSP 1.25" Thread	NBR	NO

Other Sensors

Rudder Angle Sensors

This type of rudder sensors is usually installed on the stern rudder horn to collect signals by wire resistor.

Part Number: KE41000

This type of rudder sensors is usually installed on the stern rudder horn to collect signals by wire resistor.

Part Number: JZM6470

This type of rudder sensors is attached to the cylinder of the steering rudder. Signal output is via integrated reed switches. Sensor is durable and can be easily assembled.

Part Number: JSM4480

Temperature Sensors

Specifications

1. Main body made of brass
2. Double metal plate connectors
3. IP67 protection rating
4. Minimum 3 minutes temperature response time after power-on
5. Rated power for alarm switches ranges from 1.2W to 3W
6. Temperature alarm tolerance is ±3°C
7. Switch turns off when temperature rises

I	II	III	IV
PIN : 6.3×0.8mm PIN=Temperature Signal Case Earth	PIN : 6.3×0.8mm S=Temperature Signal GND= Ground	PIN : 6.3×0.8mm S=Temperature Signal A=Alarm Signal Case Earth	Threaded Rod : M5x0.8mm Threaded Rod=Temperature Signal Case Earth
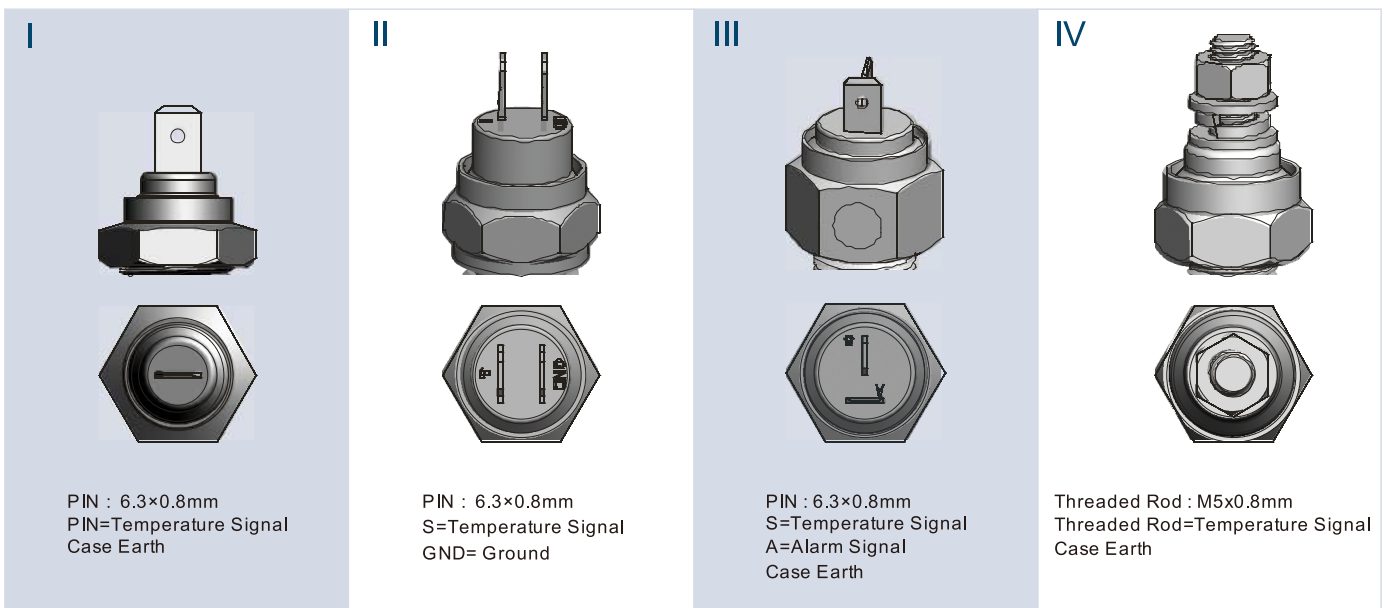
Pressure Sensors

Specifications

Operating Voltage	6V - 24V
Conducting Power	< 5W
Protection Rating	IP66
Operating Temperature	-13°F to +248°F (-25°C to +120°C)
Measuring Range	0 Bar - 5 Bar or 0 Bar - 10 Bar
Alarm	0.88 Bar or 1.4 Bar
Output Signal	Standard resistance 10 ohms - 184 ohms
Thread Fitting	NPT 1/4, NPT 1/8, M 10, M10X1, customizable

Hex nut (x2)

G M4   WK M4

Knurled nut (x2)

G M4   WK M4

A | B
C | D

WK:4.8x0.8 mm
G:6.3x0.8 mm

G 50 M4   WK 50 M4

Knurled nut

G M4
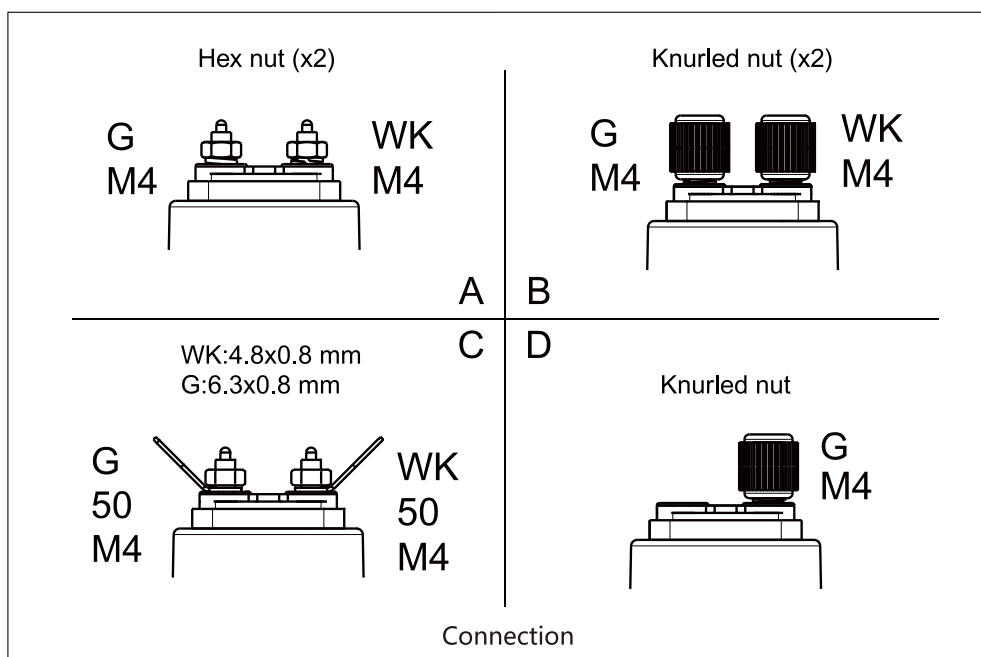
Connection
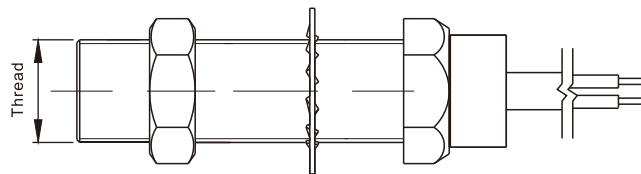
Tachometer Sensor

Holzer Tachometer Sensor

Connection Method	3 or 4 wires connection
Inductance Distance	≤ 2 mm
Operating Current	< 50mA
Operating Temperature	-40°F to +185°F (-40°C to 85°C)
Operating Voltage	8V - 32V with polarity connection
Output Signal	Square Wave
Protection Rating	IP65
Signal Duty Factor	47±5%

Magnetoelectric Tachometer Sensor

Connection Method	2 wires connection
Inductance Distance	≤ 1 mm
Operating Temperature	-40°F to +185°F (-40°C to 85°C)
Output Signal	Sine Wave
Protection Rating	IP65
Tooth Module	2 - 6

Accessories

Model Number: HFL

Tooside/underside kit to suit
S3HT 1.25" BSP senders

Model Number: FL-2 WE

Tooside flange to adapt S3U 1.25"
BSP to SAE 5 Hole Pattern

Model Number: FLS-U

C-ring flange for the SAE 5 Hole
Pattern on SSS/SSL senders

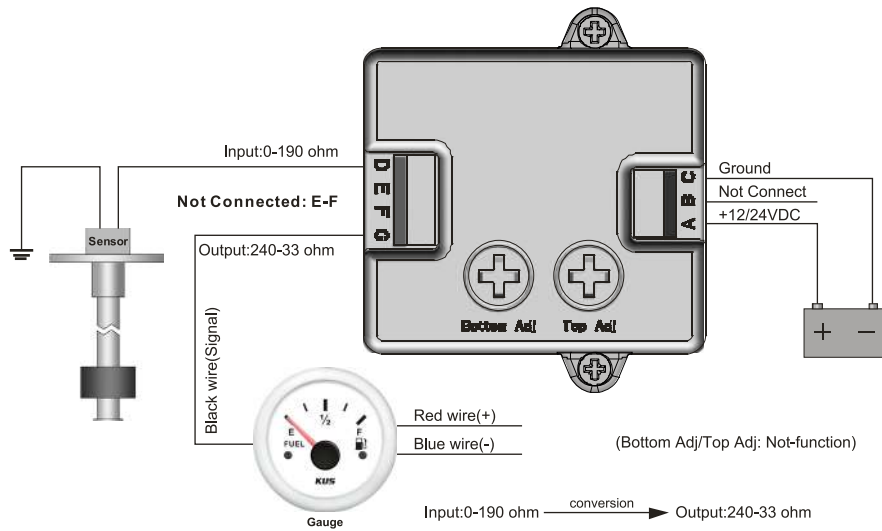## Model Number: Buzzer

6.3 mm Buzzers

Signal Converter - EU/US | US/EU

Part Number: JKE00473

E-F end short circuits:
Input American signal 240 ohms - 33 ohms
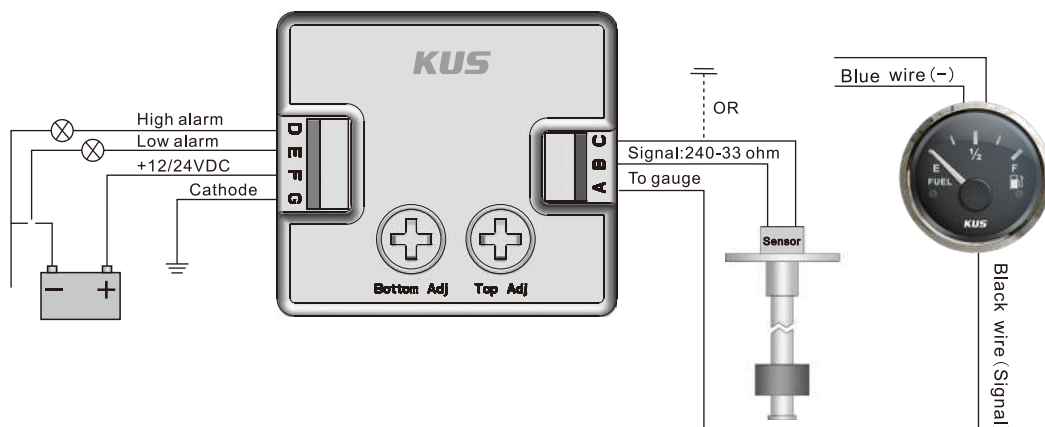Output European signal 0 ohms -190 ohms

E-F end is off:
Input European signal 0 ohms -190 ohms
Output American signal 240 ohms - 33 ohms

Input:0-190 ohm

Not Connected: E-F

Ground
Not Connect
+12/24VDC

Sensor

Output:240-33 ohm

D E F G

A B C

Black wire(Signal)

Red wire(+)
Blue wire(-)

(Bottom Adj/Top Adj: Not-function)

Bottom Adj   Top Adj

Gauge

Input:0-190 ohm — conversion → Output:240-33 ohm

SAB High/Low Level Alarm

Part Number: JKE00023

This product allows the user to add a high and low level alarm signal to the control and monitoring system. The high/low level alarm position could be adjusted by turning the two adjusting knobs.
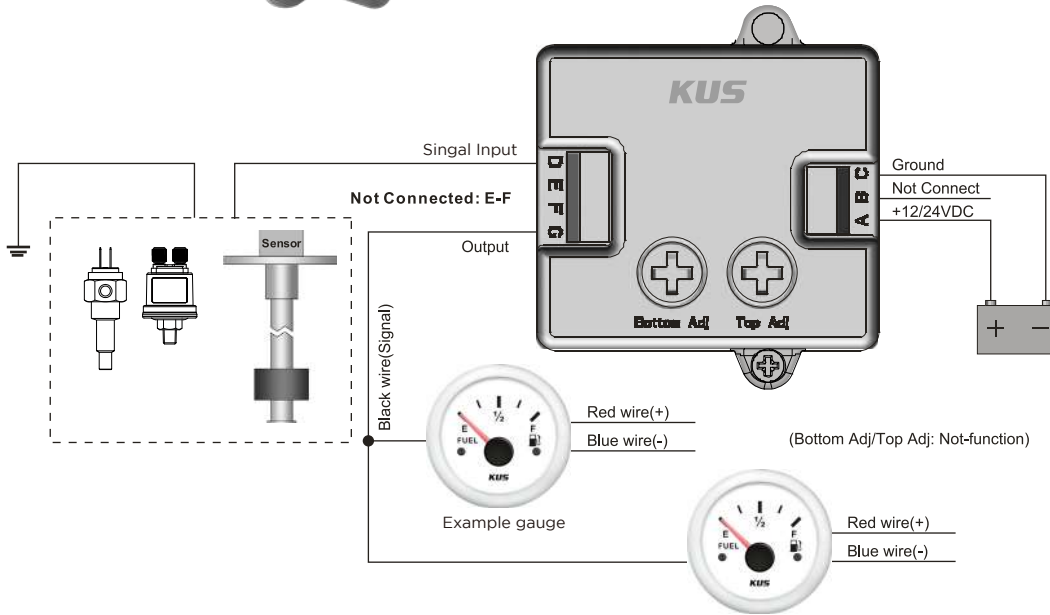
KUS

High alarm
Low alarm
+12/24VDC
Cathode

OR

Blue wire (−)

Signal:240-33 ohm
To gauge

D E F G

A B C

Sensor

Bottom Adj   Top Adj

Black wire (Signal)

Dual Station Converter

Part Number: JMC0003

This product allows the connection of one sensor to two gauges. The maximum resistance range of the sensor is required to be 0 ohm - 930 ohms. The product can be applied to pressure, oil temperature, liquid level sensors, etc.

Singal Input

Not Connected: E-F

Sensor

Output

Black wire(Signal)

Ground
Not Connect
+12/24VDC

Bottom Adj   Top Adj

(Bottom Adj/Top Adj: Not-function)

Red wire(+)
Blue wire(-)

Example gauge

Red wire(+)
Blue wire(-)

Frequency Stabilizer

Part Number: JYC0003

Size: 63*36*14mm
Operating Voltage: 8-32V

This product mainly solves the problem of abnormal instrument display caused by the unstable frequency signal of in the complex working environment. It filters the frequency signal of the engine or speed sensor to make the signal more stable.

+8-32V   Red   Black   RPM Signal Output

IGN.SW OR SEP.SW

Blue

Black
RPM Signal Input