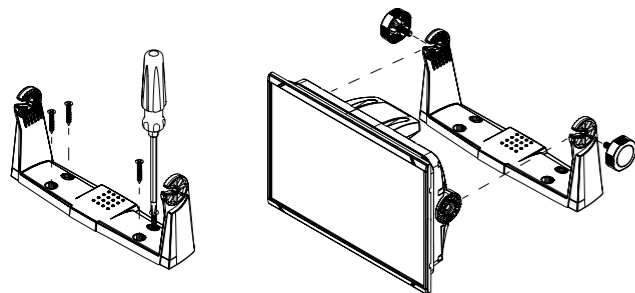


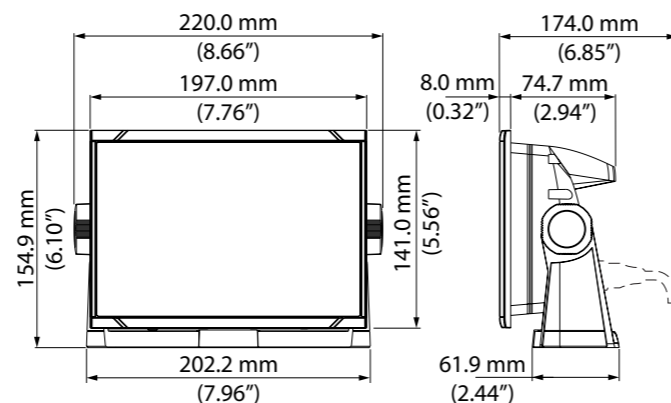
## Technical specifications

Display	
<b>Resolution</b>	800 x 480
<b>Brightness</b>	>1200 nits
<b>Touch screen</b>	Full touch screen (multi-touch)
<b>Viewing angles</b>	Left/right: 70°, top: 50°, bottom: 60°
<b>Nominal viewing distance</b>	0.85 m (2.79 ft)
Electrical	
<b>Supply voltage</b>	12/24 V DC (9.0 - 31.2 V DC min - max)
<b>Power consumption</b>	680 mA/ 330 mA at 12 V DC (backlight full/off) 380 mA/200 mA at 24 V DC (backlight full/off)
<b>Recommended fuse rating (12 V / 24 V)</b>	3 A
Environmental	
<b>Temperature range</b>	-15°C to +55°C (5°F to 131°F)
<b>Storage temperature</b>	-20°C to +60°C (4°F to 140°F)
<b>Waterproof rating</b>	IPX2
<b>Category</b>	Protected
<b>Shock, vibration and humidity</b>	According to IEC 60945
Interface/Connectivity	
<b>Ethernet</b>	1x (RJ45) 100Base-TXS, 8P8C connector, IPv4
Lightweight Ethernet protocol	IEE 802.3
Maximum data rate	450 sps addressed to device, 500 sps unintended
Buffer capacity	Dynamic serial buffer
<b>NMEA 2000®</b>	1x (Micro-C, 1 LEN)
<b>Data card reader</b>	1x slot (microSD)
<b>Comms</b>	
IEC 61162-2 ports	2x
Digital input	1x
Analog input	1x
Power output (+16 V DC, 70 mA)	1x
<b>Datagram types</b>	NkPgN and UdPbC
Physical	
<b>Compass safe distance</b>	0.9 m (2.95 ft)
<b>Weight (display only)</b>	1.32 kg (2.91 lbs)

## Bracket mounting

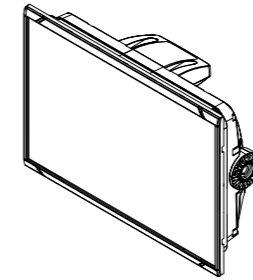


## Dimensions

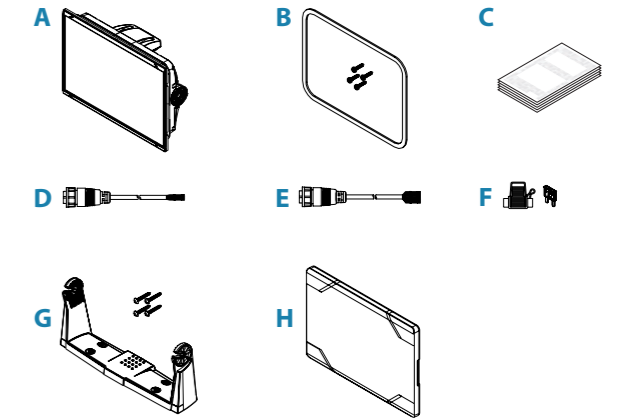


**SIMRAD®**

## P3007 Installation Guide

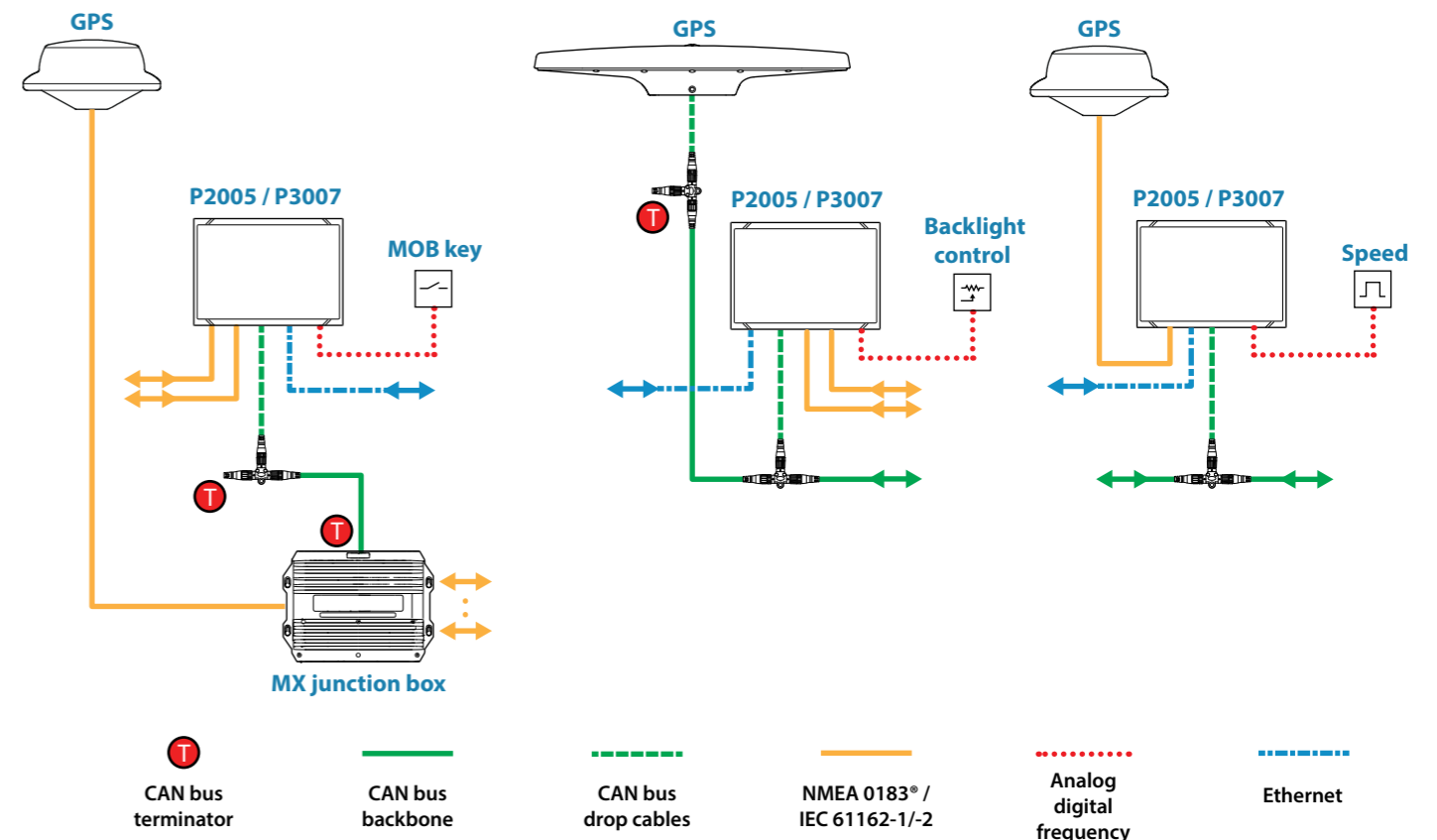


## Parts



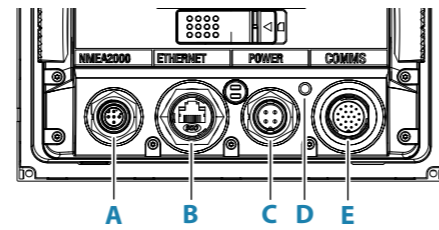
- A. P3007 unit
- B. Panel mounting kit
- C. Documentation
- D. Power cable
- E. Communication cable
- F. Fuse kit
- G. Bracket kit
- H. Suncover (sold separately)

## System examples



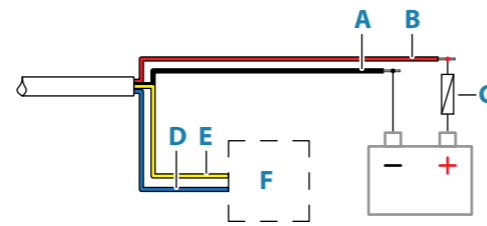
## Connector overview

- A. NMEA 2000®, Micro-C connector
- B. Ethernet, RJ45 connector
- C. Power and external alarm, 4-pin connector
- D. Ground, M4 threaded insert
- E. Comms (communication), 19-pin connector



## Power and external alarm

- A. DC negative - black
- B. +12/24 V DC - red
- C. Fuse (3 A)
- D. Power failure alarm output (contact return) - blue
- E. Power failure alarm output (N/C isolated contact) - yellow
- F. Alert management system



→ **Note:** Refer to the technical specifications for electrical details.

## Ethernet

The unit is equipped with a standard RJ-45 connector.

→ **Note:** Network switches can be used to extend the network. Routers and repeater hubs shall not be used.

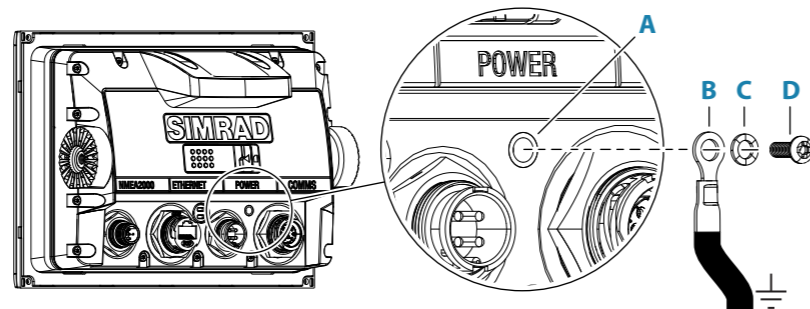
Network traffic filtering by external managed switch supports IGMP version 2.

## NMEA 2000®

The unit is equipped with a standard Micro-C connector.

## Grounding

- A. Ground, M4 threaded insert
- B. Grounding cable, min. 0.82 mm<sup>2</sup> ( 18 AWG)
- C. Star washer
- D. Screw (M4-.7 X 6 mm)



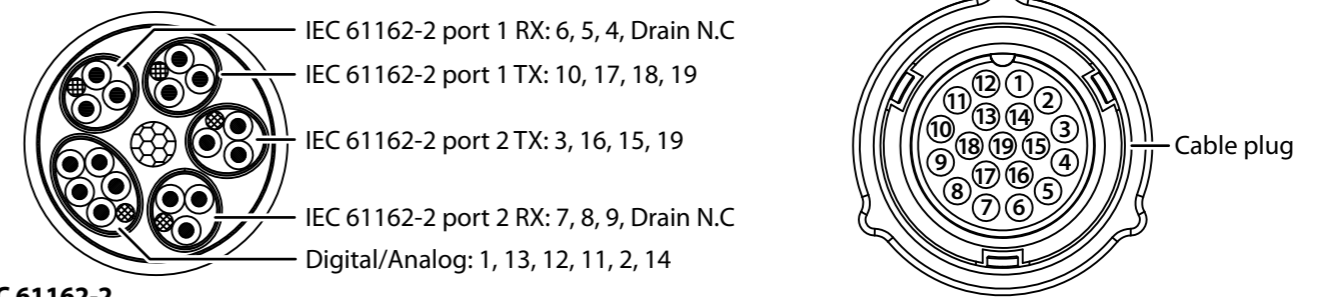
→ **Note:** It is recommended that the unit ground is connected to the vessel's bonded ground or a non-bonded RF ground.

For more information on alerts, refer to the Operator Manual.

For product manuals, technical specifications, certificates and declarations, refer to: [www.navico-commercial.com](http://www.navico-commercial.com).

## Communication cable

Refer to the Operator Manual for software setup. Wiring illustrations only include the required wires for the example.



### IEC 61162-2

Pin/Wire	Color	IEC 61162-2 port 1
10	black	TX common
17	white	talker (TX_A)
18	brown	talker (TX_B)
19	drain (gray shrink tube)	TX drain
7	black/white	RX common
8	yellow	listener (RX_A)
9	green	listener (RX_B)
N.C	drain (purple shrink tube)	RX drain

Pin/Wire	Color	IEC 61162-2 port 2
3	black/red	TX common
16	white/red	talker (TX_A)
15	brown/red	talker (TX_B)
19	drain (blue shrink tube)	TX drain
6	brown/red	RX common
5	yellow/red	listener (RX_A)
4	green/red	listener (RX_B)
N.C	drain (orange shrink tube)	RX drain

### Direct antenna connection

IEC 61162-2 port 1

- 8 ← GPS primary output (TX\_A)
- 9 ← GPS primary output (TX\_B)
- 17 → GPS control input (RX\_A)
- 18 → GPS control input (RX\_B)

IEC 61162-2 port 2

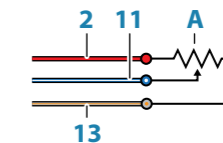
- 4 ← GPS secondary output (TX\_B)
- 5 ← GPS secondary output (TX\_A)

### Analog input

The analog port can be configured for backlight control.

Pin/wire	Color	Backlight control
2	red	+16 V DC (max. 70 mA)
11	blue/white	signal in
12	blue/red	not used
13	gray/orange	ground
14	drain (clear shrink tube)	not used

A. Potentiometer (10 k - 100 k Ohm, 0.1 W)



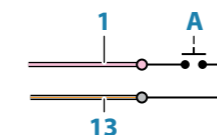
### Digital input

The digital port can be used for either speed input or as an external MOB key.

Pin/wire	Color	Speed log	MOB
1	pink	signal in	signal in
13	grey/orange	ground	ground
14	drain (clear shrink tube)	not used	not used

### MOB

A. Momentary push button



### Speed

A speed log that outputs 200 pulses per nautical mile can be connected to the digital port.

A. Speed log (200 pulses/NM)

B. Ship's ground

