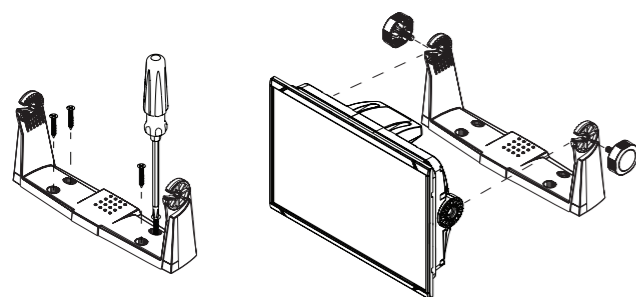


Technical specification

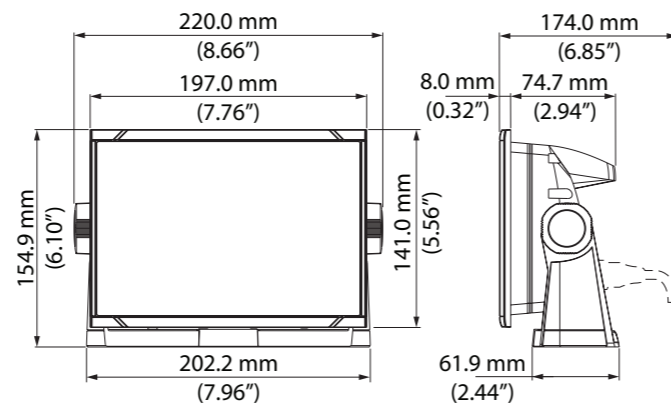
Display		
Resolution	800 x 480	
Brightness	>1200 nits	
Touch screen	Full touch screen (multi-touch)	
Viewing angles (typical value at contrast ratio = 10)	Left/right: 70°, top: 50°, bottom: 60°	
Electrical		
Supply voltage	12/24 V DC (9.0 - 31.2 V DC min - max)	
Power consumption	680 mA/ 330 mA at 12 V DC (backlight full/off) 380 mA/200 mA at 24 V DC (backlight full/off)	
Recommended fuse rating (12 V / 24 V)	3 A	
Environmental		
Temperature range	-15°C to +55°C (5°F to 131°F)	
Storage temperature	-20°C to +60°C (4°F to 140°F)	
Waterproof rating	IPX2	
Category	Protected	
Shock, vibration and humidity	According to IEC 60945	
Interface/Connectivity		
Ethernet	1x (RJ45) 100Base-TXS, 8P8C connector, IPv4	
Maximum data rate	450 sps addressed to device, 500 sps unintended	
Buffer capacity	Dynamic serial buffer	
NMEA 2000	1x (Micro-C, 1 LEN)	
Data card reader	1x slot (microSD)	
Comms		
IEC 61162-2 ports	2x	
Digital input	1x	
Analog input	1x	
Power output (+16 V DC, 70 mA)	1x	
Physical		
Compass Safe Distance - Metric, imperial	0.5 m (1.64 ft)	
Weight (display only)	1.32 kg (2.91 lbs)	

For product manuals, technical specifications, certificates and declarations, refer to the product website:
<http://www.navico-commercial.com>

Bracket mounting

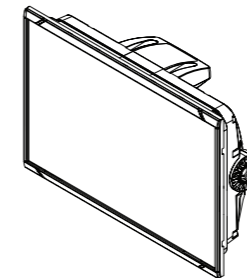


Dimensional drawings

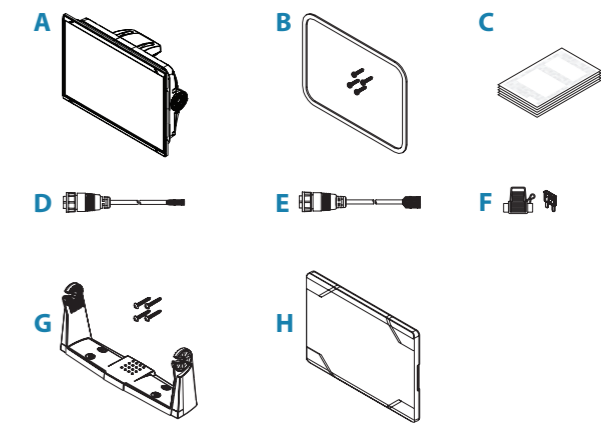


SIMRAD

P3007 Installation Guide

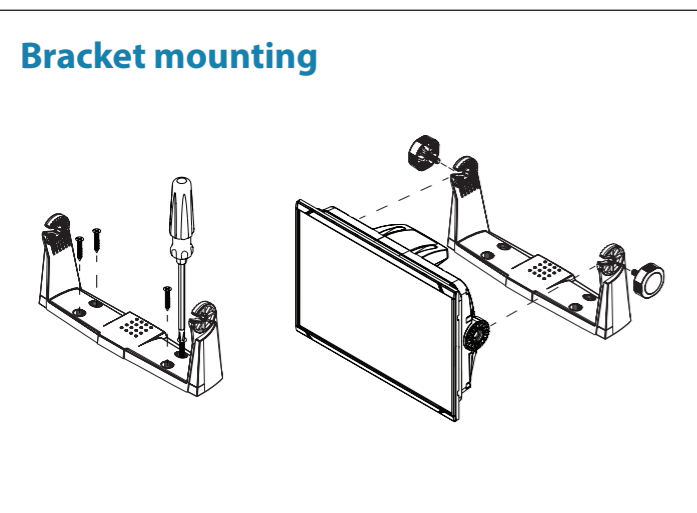
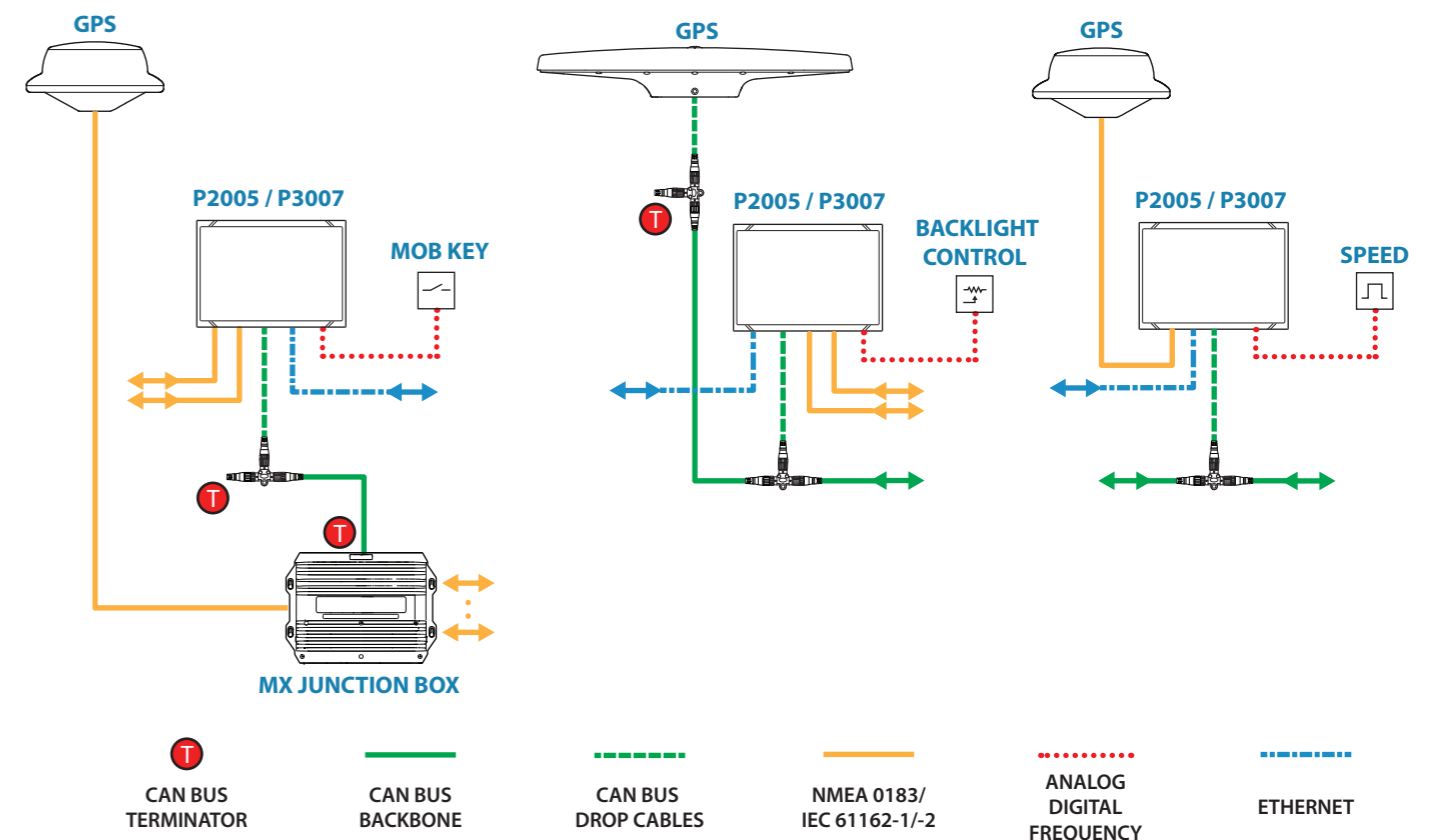


Parts



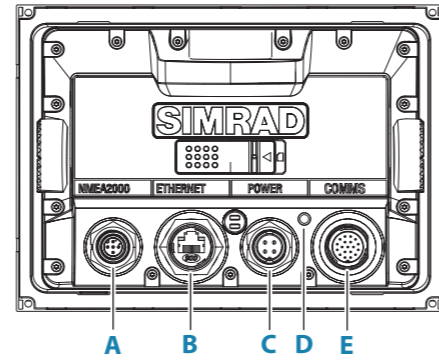
- A. P3007 unit
- B. Panel mounting kit
- C. Documentation
- D. Power cable
- E. Communication cable
- F. Fuse kit
- G. Bracket kit
- H. Suncover (sold separately)

System examples



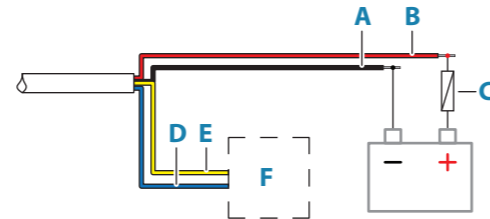
Connector overview

- 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. Alarm output negative return - blue
- E. Alarm output (N/C isolated contact) - yellow
- F. Alert management system



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

Ethernet

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

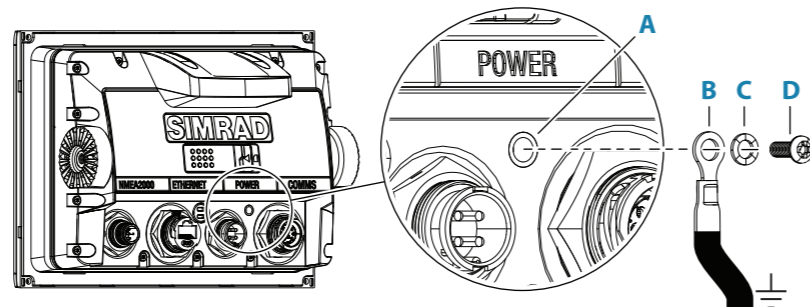
→ **Note:** Network switches can be used to extend the network. Routers and repeater hubs shall not be used.

NMEA 2000

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

Grounding

- A. Ground, M4 threaded insert
- B. Grounding cable, min. 0.82 mm² (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.

Communication cable

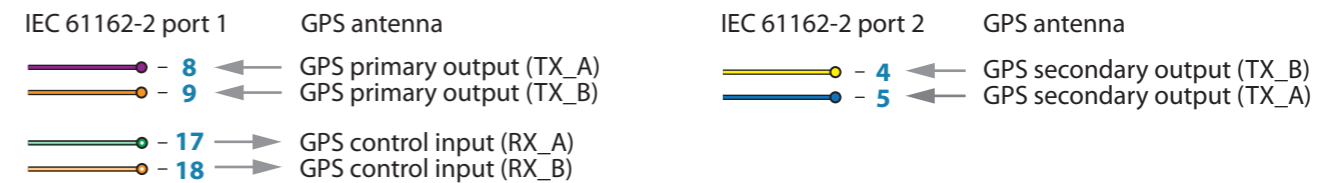
Refer to the Operator Manual for software setup. Wiring illustrations only include the required wires for the example.

IEC 61162-2

It is possible to configure port 1 and 2 for direct antenna connection or port 2 for BAM connection.

Pin/Wire	Color	IEC 61162-2 port 1	IEC 61162-2 port 2
3	pink		TX common
4	yellow		listener (RX_B)
5	blue		listener (RX_A)
6	brown/white		RX common
15	red/black		talker (TX_B)
16	purple/white		talker (TX_A)
7	red/white	RX common	
8	purple	listener (RX_A)	
9	orange	listener (RX_B)	
10	black/white	TX common	
17	green/white	talker (TX_A)	
18	orange/white	talker (TX_B)	
19	Not applicable		

Direct antenna connection

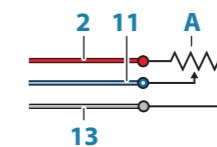


Analog input

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	brown	not used
13	grey	ground
14	green	not used

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



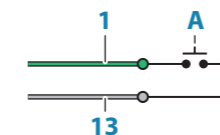
Digital input

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

Pin/wire	Color	Speed log	MOB
1	light green	signal in	signal in
13	grey	ground	ground
14	green	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

