COBHAM
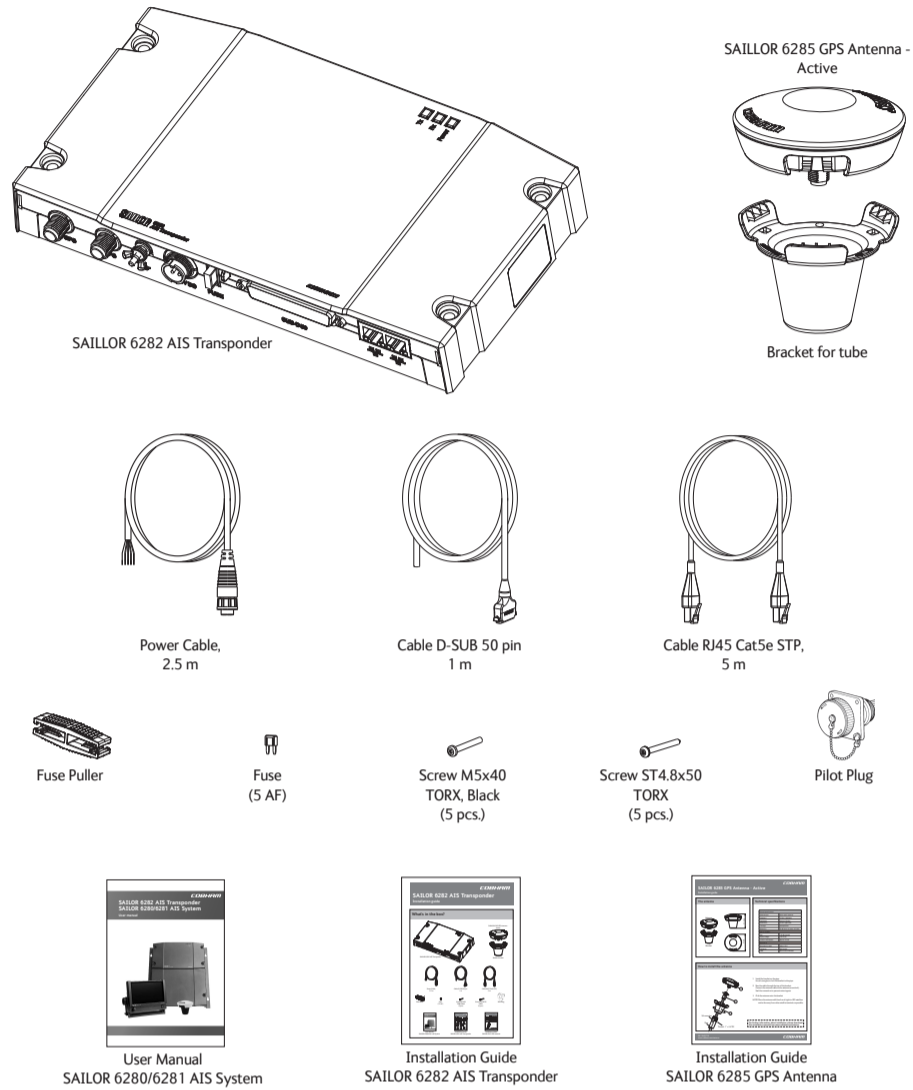
SAILOR 6282 AIS Transponder
Installation guide
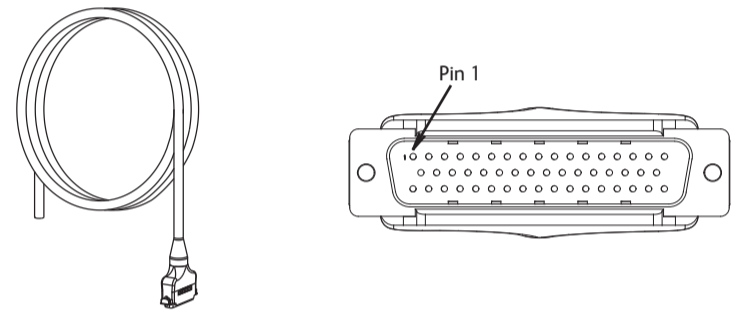
What's in the box?

SAILLOR 6282 AIS Transponder

SAILLOR 6285 GPS Antenna - Active

Bracket for tube

Power Cable, 2.5 m

Cable D-SUB 50 pin 1 m

Cable RJ45 Cat5e STP, 5 m

Fuse Puller

Fuse (5 AF)

Screw M5x40 TORX, Black (5 pcs.)

Screw ST4.8x50 TORX (5 pcs.)

Pilot Plug

User Manual SAILOR 6280/6281 AIS System

Installation Guide SAILOR 6282 AIS Transponder

Installation Guide SAILOR 6285 GPS Antenna

How to install the transponder

4 x M5 or hole for self-tapping ø4.8mm

30 mm
95 mm
155 mm
162.5 mm
30 mm
12.5 mm
245 mm
12.5 mm
270 mm

Power cable - Connections

Description	Pin	Wire color
DC+ (10.8-32V DC)	1	Red
DC- (0V DC)	2	Black
ON_IN (Must be connected to DC- to switch on the transponder)	3	White
ON_OUT	4	Blue
Outer shield must be connected to ground	Shield	

Pin assignments Front view

Dimensions for SAILOR 6282 AIS Transponder

42.5 mm
155 mm
270 mm
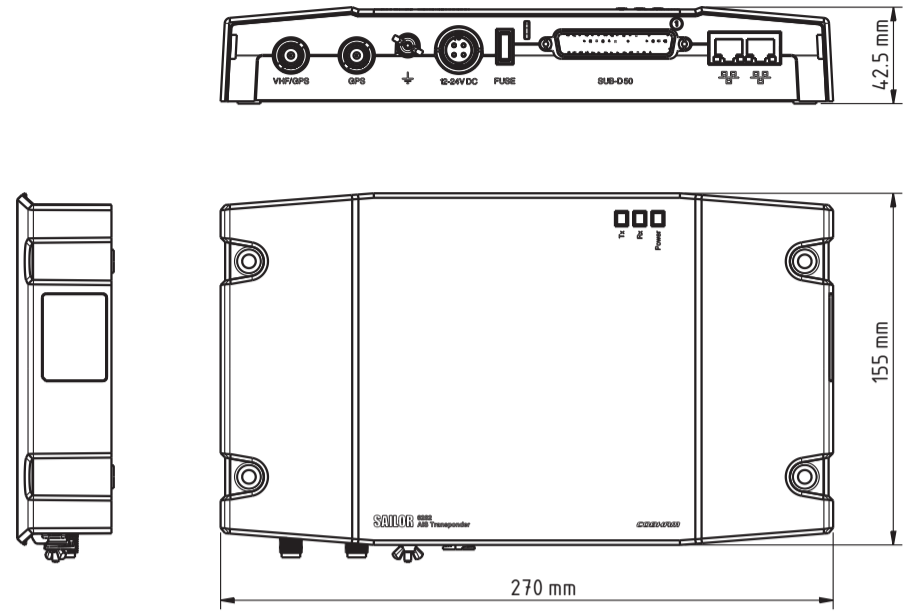
Cable D-SUB 50 pin - Connections

Pin 1

Description	Pin	Wire colour
SENSOR 3 Rx C	1	Black
SENSOR 3 Rx B	2	Brown
SENSOR 3 Rx A	3	Red
SENSOR 2 Rx C	4	Orange
SENSOR 2 Rx B	5	Yellow
SENSOR 2 Rx A	6	Green
BLUESIGN N	11	Blue
AUX	12	Purple
ON_IN	13	Grey
BLUESIGN C	14	White
ON_OUT	15	Pink
PI 4 Rx A	18	Light Green
PI 4 Rx B	19	Light Blue
PI 4 Rx C	20	Black/White
PI 4 Tx A	21	Brown/White
PI 4 Tx B	22	Red/White
PI 1 Tx B	23	Orange/White
PI 1 Tx A	24	Yellow/White
PI 1 Rx C	25	Green/White
PI 1 Rx B	26	Blue/White
PI 1 Rx A	27	Purple/White
SENSOR 1 Rx A	28	Grey/White
1W	29	Brown/Black
ALARM COM	30	Red/Black
ALARM NC	31	Orange/Black
DC- (0V DC)	32	Yellow/Black
PI 3 Tx B	34	Green/Black
PI 3 Tx A	35	Blue/Black
PI 3 Rx C	36	Purple/Black
PI 3 Rx B	37	Grey/Black
PI 3 Rx A	38	Brown/Red
PI 2 Tx B	39	Orange/Red
PI 2 Tx A	40	Green/Red
PI 2 Rx C	41	Blue/Red
PI 2 Rx B	42	Purple/Red
PI 2 Rx A	43	Grey/Red
SENSOR 1 Rx C	44	White/Red
SENSOR 1 Rx B	45	Yellow/Green
BLUESIGN P	46	Black/Red
ALARM NO	47	Blue/Green
DC- (0V DC)	48	Purple/Green
DC- (0V DC)	49	Grey/Green
CABLE SHIELD	50	Drain wire

System Configuration - Example

SAILOR 6285
GPS Antenna - Active   VHF Antenna

SAILOR 6004 Control Panel

SAILOR 6282 AIS Transponder

VHF/GPS   GPS   ⏚   12-24V DC   FUSE   SUB-D50
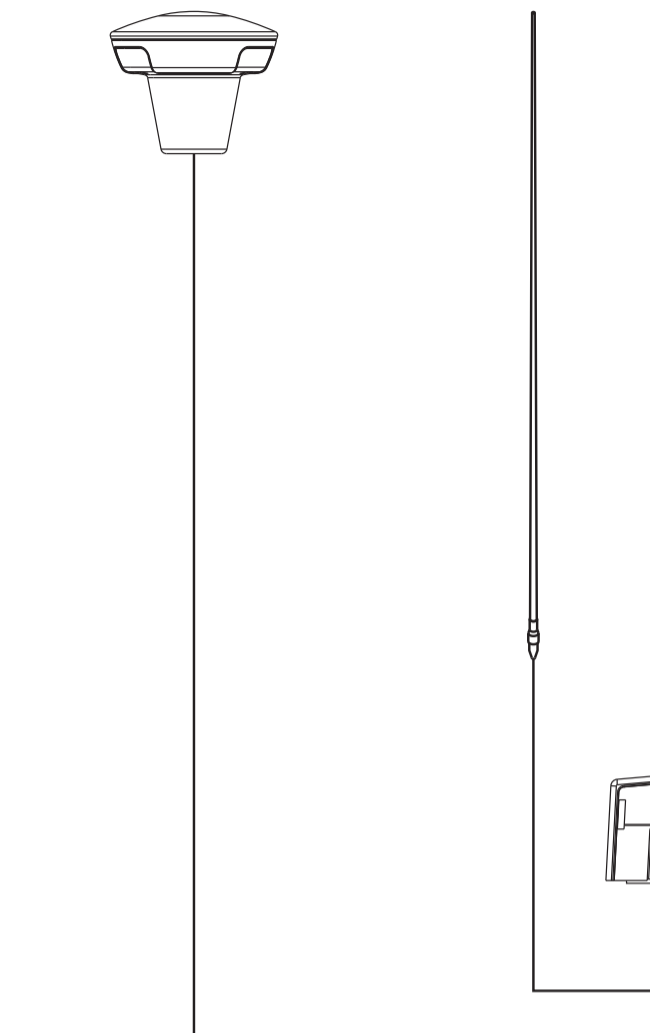
AUX   TEST   ACC   PWR
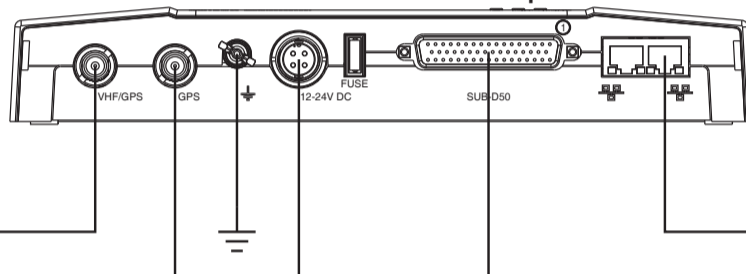
12-24 VDC

Connector for interface connections
or connection board
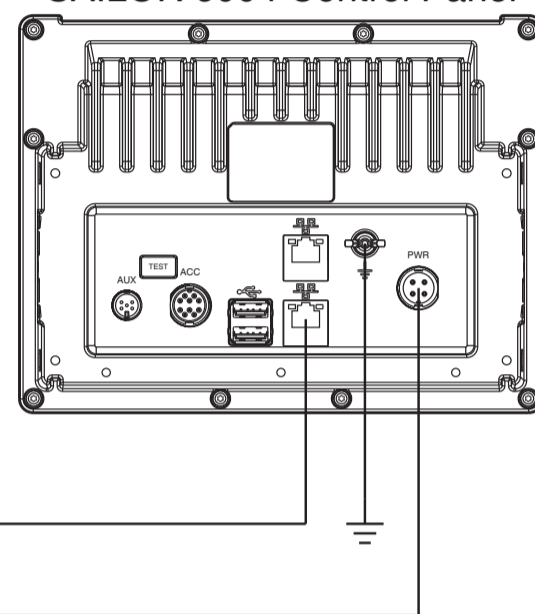
Option -
SAILOR 6283 Connection Box, for easy installation

54.5 mm
40 mm
245 mm
344.5 mm
54 mm
9.5 mm   290 mm   9.5 mm
309 mm
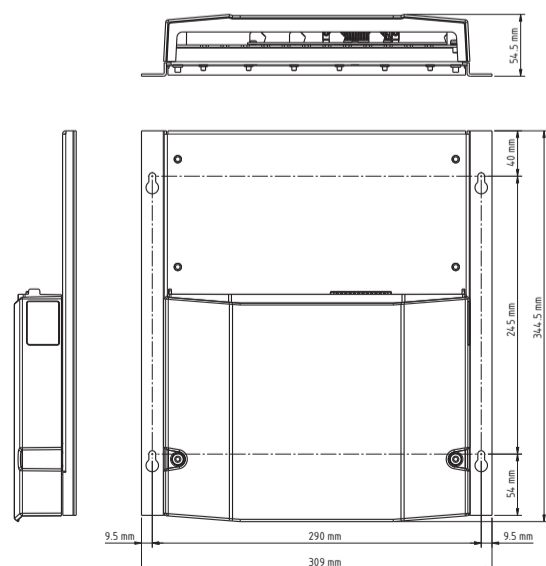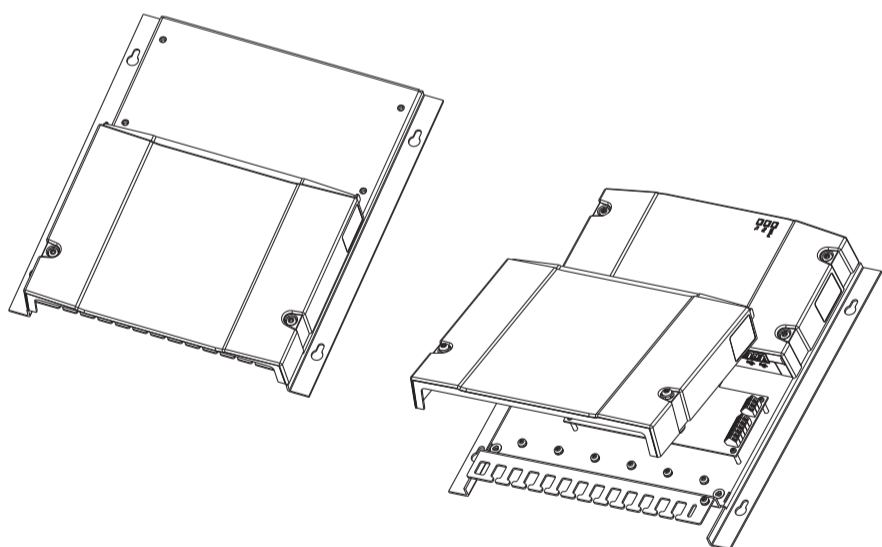
Pilot plug connections

The pilot plug provides a connection to the SAILOR 6282 AIS Transponder for
pilots using the standard pilot plug connector. This Connector is supplied with the
SAILOR 6282 AIS Transponder. Mount it in an appropriate position for easy access
by the pilot. The connector kit for the pilot plug consists of the following items:

Type	Manufacturer	Part number
Pilot Plug Connector	AMP/Tyco	206486-3, Square Flange
Contact Pins	AMP/Tyco	66570-3, solder type
Sealing Cap	AMP/Tyco	208800-1

PI 2
Rx A
Rx B
Rx C
Tx A
Tx B
Tx C
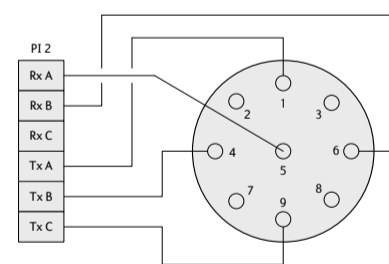
Software upload

1. Connect the AIS Transponder and the Control Panel
   with the Ethernet cable.
2. Power up the AIS Transponder.
3. Wait 30 seconds.
4. Power up the Control Panel.
5. When the Control Panel shows the home screen wait
   30 seconds.

On the Control Panel:
1. Enter the System app.
2. Tap the menu item Applications.
3. Select the tab Available in the upper right corner of
   the screen.
4. Select AIS on left side.
5. Tap the Install button on the right side.

6. When prompted for the user-level password of the
   Control Panel, enter it (Password: user, see also the
   Control Panel manual); tap OK to confirm the password.
   The padlock on the Install button is open now.
7. Tap the Install button again.
8. After successful installation you can start the AIS app in
   the home screen.
9. In case of problems during the installation, a warning is
   shown. Repeat the installation procedure. If that fails do
   as follows:
   - uninstall all previously installed AIS apps from the
     Installed tab.
   - install the new AIS App (found in the Available tab) again.
   - ensure newest firmware for the Control Panel platform,
     use the Thrane Management Application (TMA). The TMA
     can be downloaded from the Cobham SATCOM extranet.

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