

EXPLORER[®] 110 Enclosure Installation Manual



Document Name: **EXPLORER® 110 Enclosure, Installation Manual** Item no: **108656** Revision: **B**

Introduction: This document describes how to assemble all parts and secure the antenna.

Typical User: Semi fixed and permanent installations of Explorer 110 in areas with tropical climate or lots of rainstorms. Field experiences from maritime use, more than 30.000 units installed since 1997.

Parts-list

**EXPLORER® 110
Enclosure**

**Item no:
108656**

**Part Of this
Kit**

	Radome Assembly: 109090	Quantity
▶ Radome Top	QSPA911392	1
▶ Radome Base	QSPA911393	1
▶ Set Screw M6x10 ISO4026 Unbraco A4	SBA231060-0100	3
▶ Gasket (between base and top)	QSRJ104023	1
▶ Metal Plate	108657	1
	Flange Kit: 103372	
▶ Washer M6, A4	103060	6
▶ Screw, M6x25, ISO4017, Hex A4	QSPA189060-0250	6
▶ Locking NutM6, ISO7040, A4	QSBM111060	6
▶ Set Screw M12x12, A4	SXAR920221/1	2
▶ Flange	SXAR920211	1
▶ Gasket	QSRJ104016	1
	Cable Mounting Kit: 109071	
▶ Cable Strap 3,6 x 142 mm, black	109076	10
▶ Cable Strap Mount, Medium	108664	1
▶ Tie Mount	108670	2
▶ Terminal Block	QNER101001/2	7
▶ End Plate	QNEY101001	2
▶ Screw, Ø2, 9x9, 5, Panhead	QSBF119029-0095	3
	Packaging Kit: 109085	
▶ Cardboard Box MiniM Radome	109086	1
▶ Cardboard Box End Insert	109087	2
▶ Cardboard Box Pipe Insert	109089	1
	Misc.:	
▶ Installation Manual (this)	108656	1

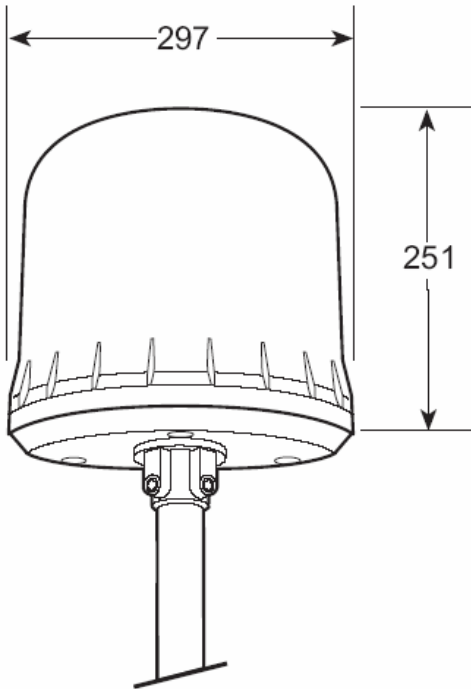
Parts-list

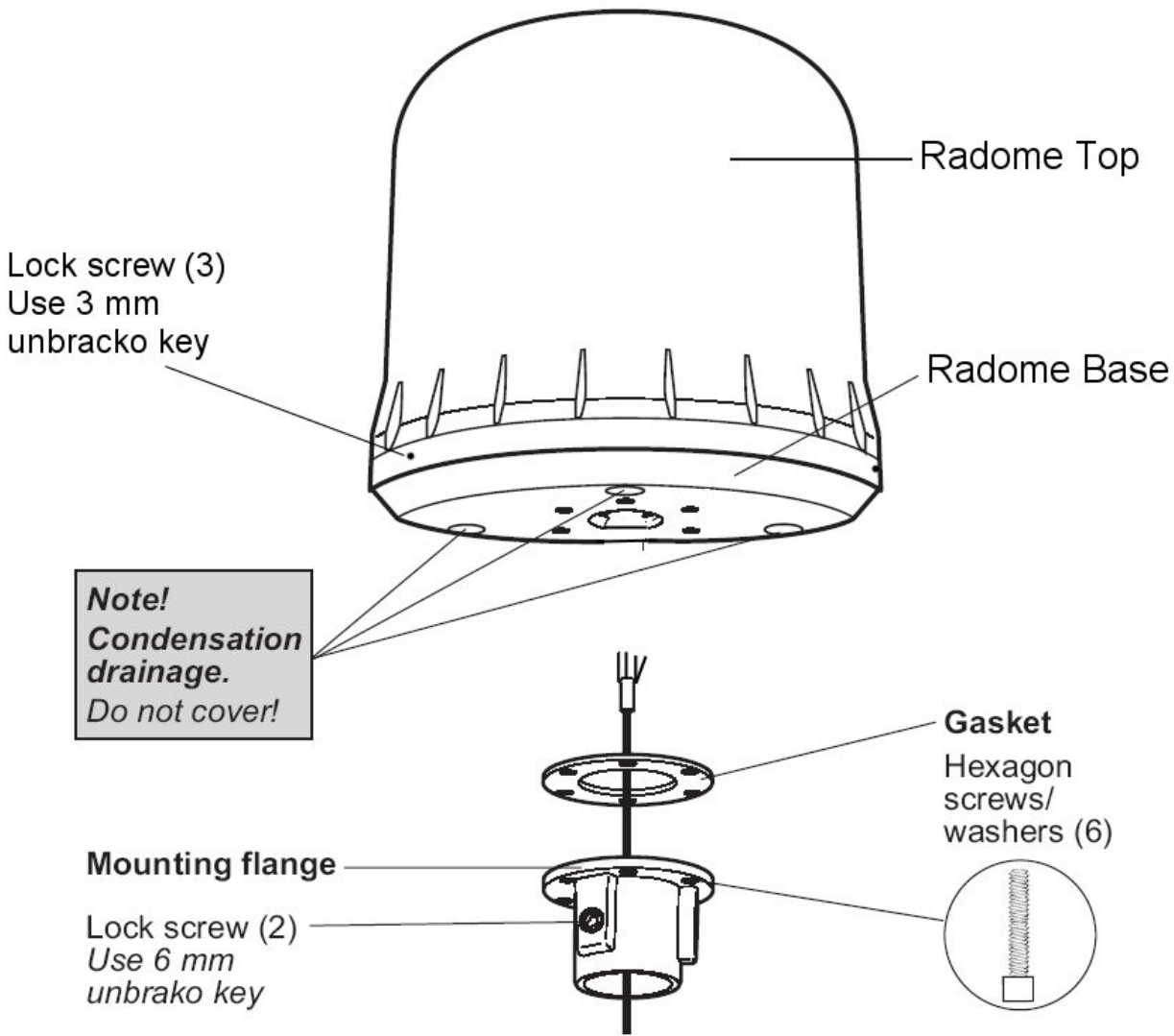
EXPLORER® 110
Enclosure cont.

Not part of
this kit.

Equipment to be bought separate:

- ▶ Split Cable (Antenna Cable), 3m 107425
- ▶ Split Cable (Antenna Cable),, 10m 106495
- ▶ Split Cable (Antenna Cable),, 20m 107450
- ▶ Split Cable (Antenna Cable), 30m 108425
- ▶ Mounting Rod (Tube), outer diameter 4,2 mm Not provided by Thrane & Thrane





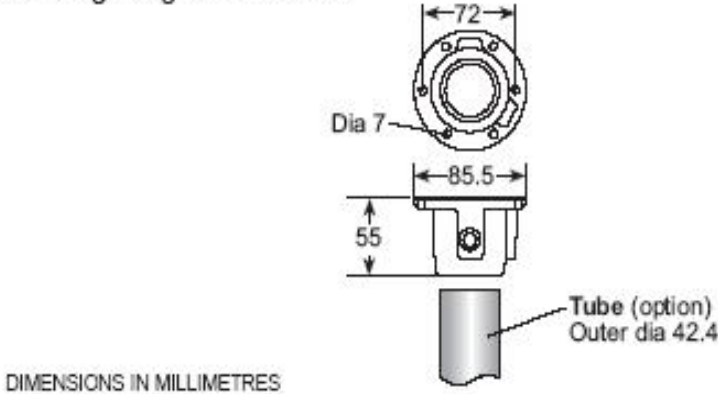
1. INTRODUCTION

The EXPLORER[®] 110 can be separated in two parts, interlinked with a split cable (Antenna Cable). Maximum distance is 30 meters. The antenna connection cable has to be ordered separately, see list above. Using the EXPLORER[®] 110 Enclosure secures the antenna outdoor, while the Interface unit can be placed indoor only interlinked with one single cable. This gives easy connection of any application e.g. power, PC and phone and the user has easy access to monitor the terminals behaviour through the LED indicators, handset or PC. For many users it is important to protect the equipment from fraud, and also secure the SIM card with its personal information. The SIM card is located inside the Interface unit.

2. HOW TO INSTALL

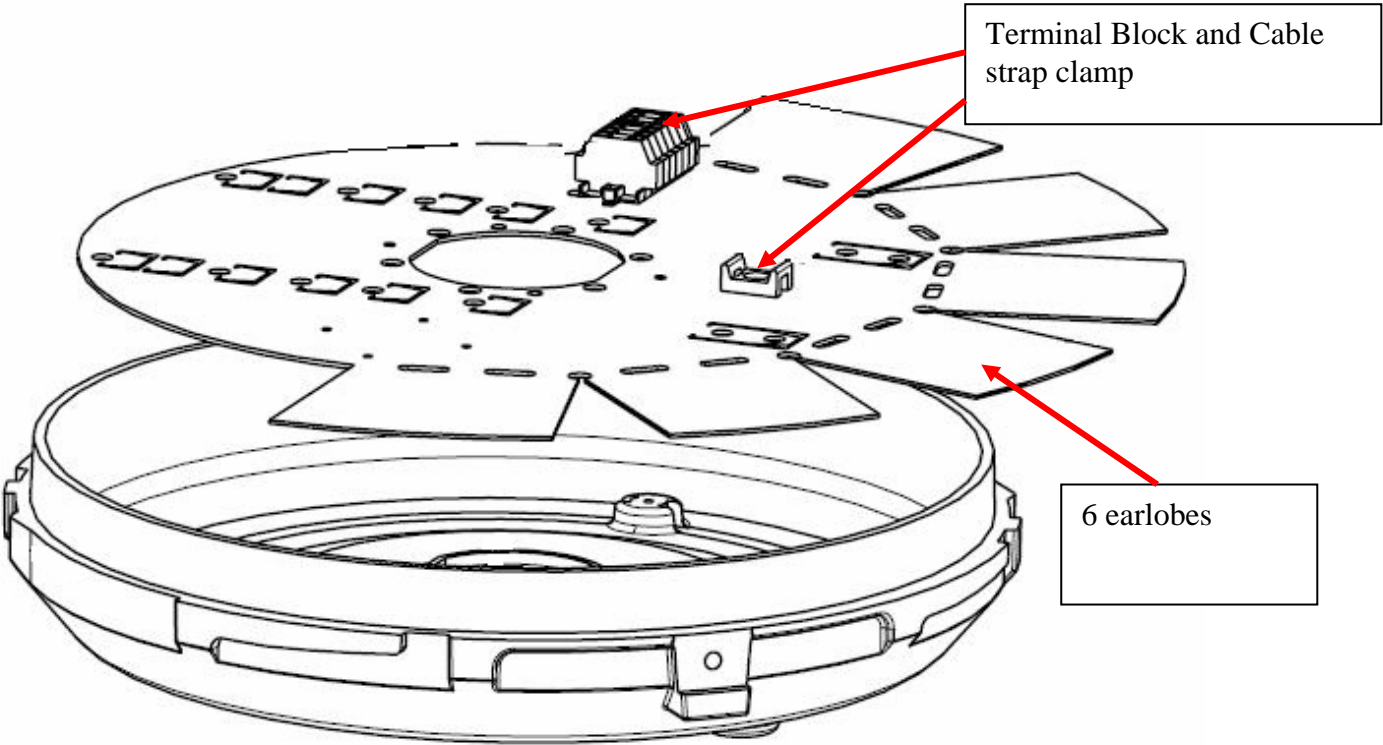
The radome is delivered with a flange kit, that includes flange, screws and gasket.

Mounting flange dimensions:



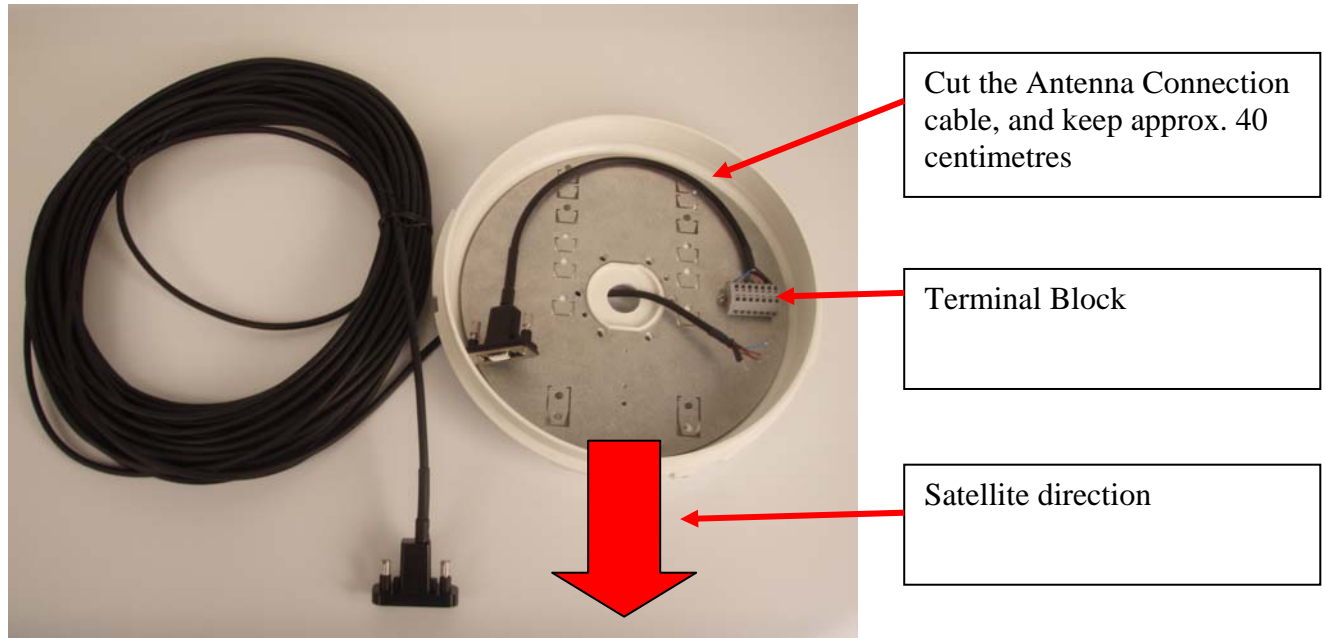
2.1 The Metal Plate

The Terminal block and the Cable strap clamp is mounted to the metal plate using the enclosed screws. The 6 earlobes have to be bent upwards 90 degrees to get the plate fitted down in the radome base. The earlobes function is to remove reflections from the ground when the antenna has elevation less than 10 degrees.



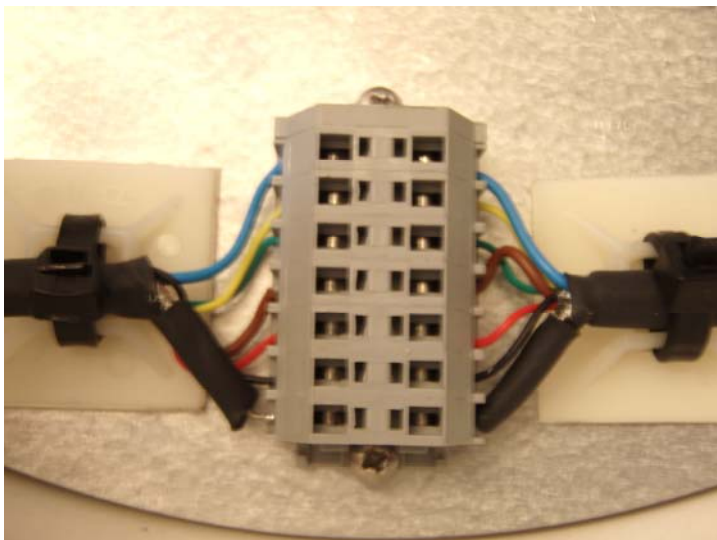
2.2 The Antenna Connection Cable

Any of the Antenna Connection cables can be used (has to be ordered separately, see list above). The Antenna Connection cable has to be cut in two, and connected to the Terminal Block inside the radome. This makes it possible to tread the cable inside the tube, and through a wall etc.



2.3 The Terminal Block

Make sure to strap the cable on both sides of the terminal block. This is to secure the cable inside the radome. Also make sure to connect equal cable colours to the terminal block. The terminal block has to be assembled, using 7 single terminal blocks, and 2 end pieces.



2.4 Mount the Antenna

Mount the flange and the metal plate to the radome base. The antenna is strapped onto the metal plate with four cable straps. It is important to find the correct elevation angle to the satellite before fastening the antenna.

The metal plate supports all elevation angles and mounting can be done in several ways. At the same time



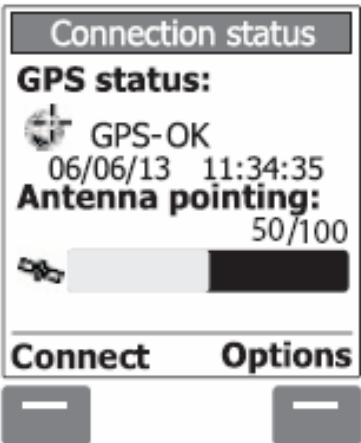
2.5 Assemble the Radome

Mount the Radome base and flange to the tube, and adjust the antenna to the maximum satellite signal by moving the radome base to the right or left.



Use the LED, ISDN Handset, BGAN LaunchPad or the WEB MMI, to get the best possible signal at your location. Please read the User Manual for more information. The User Manual is available from the WEB-MMI and resides inside the terminal, the terminal IP-address is 192.168.0.1

Handset connection status.



Secure the Flange to the tube using the two set screws, M12.

Finally mount the Radome top.
The radome top has a assembly mark that shows the mounting position to the base.
Make sure that the Radome gasket is in place



Assembly mark

Twist the radome top approx 30 deg. Clockwise. Finally secure the radome with the three set screws.



Set screws
use a 3mm Allen wrench
key