Thiamis™ Communication Modem for Environmental Enclosure

Model 8535

Installation Guide

This guide will help you quickly install the Thiamis™ Communication Modem into the Environmental Enclosure Model 8535.

Unpacking Thiamis™ Modem (801901)

1. Unpack the Thiamis™ Modem (801901) for the Environmental Enclosure (8535) and verify that all the items listed in the following table are present.
2. Contact TSI® immediately if items are missing or broken.

Qty.	Item Description	Reference Picture
1	Adapter Plate	
4	4-40 x 5/16” LG Pan Head Screws	
1	Power Cable	
1	Spare Fuse	
2	6-32 x 3/16” LG Pan Head Screws	
1	Thiamis Communication Modem	

Qty.	Item Description	Reference Picture
1	RS232 to USB Converter Cable	

Tools Needed for Installation

Qty.	Item Description	Reference Picture
1	Phillips Screw Driver	

NOTICE

It is assumed that the instrument, 12V DC external power supply, water trap bottle and inlet tubing have already been installed into the Environmental Enclosure. In this guide, a **DustTrak™** DRX 8533EP has been used. The water trap bottle, 12V DC power supply and tubing are included with Environmental Enclosure. See Environmental Enclosure 8535 Operation Manual for further details.



CAUTION

12V DC Power supply should not be connected to power until instructed to do so.

Installing the Thiamis™ Communication Modem

1. Using the screw driver, fasten the adapter plate to the base bracket using the 4-40 x 5/16” pan head screws (qty. 4).



2. Remove the mounting plate from the back of the modem. To separate the two pieces, push the button on the top of the modem, rotate the plate slightly away and slide the mounting plate downwards. **Be careful not to rotate the plate too far or the tabs on the bottom may break.**



3. Fasten the mounting plate to the adapter plate using the 6-32 x 3/16” pan head screws (qty. 2).



4. Snap the modem into the mounting plate.



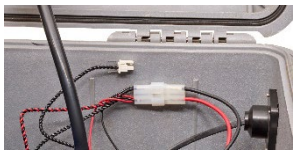
5. Using the RS-232 to USB cable, make a connection between the ***DustTrak™*** monitor and the modem. The USB end should connect to the ***DustTrak™*** monitor. The RS-232 end should connect to the modem.



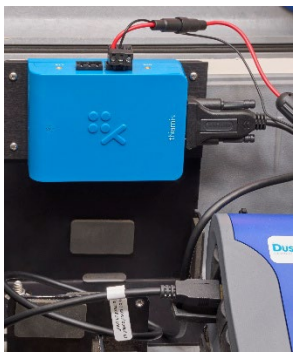
6. Connect the barrel end of the power cable to the **DustTrak™** monitor and the black Phoenix connector to the modem. The third connector is for the heated inlet control module. If the heated inlet is not present, it can be left unplugged.



7. Connect the other end to the power cable to the power source. Same connection will be made if using the solar power system accessory, instead of the 12V DC power adapter.



8. Plug the AC/DC power supply into an AC power source. Instrument and modem should power on.



9. LED on the modem will blink while the modem searches for a network. If the LED stops blinking and is solid blue, a network has been found and proper communication with Environet™ should be possible. If the LED changes to solid yellow, the modem has not found a network. A power cycle may resolve the issue.



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