

Environmental Enclosure

Installing 854050/854051 Metrology Station



Quick Start Guide

This guide will help you quickly attach the 10 m connection cable included with the Lufft WS300 (TSI® P/N 854050) / Lufft WS500 (TSI® P/N 854051) to the DustTrak™ Environmental Monitor.

	CAUTION Refer to the Manufacturer's Manual and follow all instructions regarding; setup, installation, proper use, maintenance, safety, and troubleshooting.
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Tools Needed for Installation

- Small Flat Blade Screw Driver *(not included)*
- 14-mm Wrench



Unpacking the (854050/854051) Metrology Station

1. Unpack and verify that all the items listed in the following table are present.
2. Contact [TSI®](http://www.tsi.com) immediately if items are missing or broken.

Qty.	Item Description	Reference Picture
1	Lufft WS300/WS500 Metrology Station	
1	Lufft Cable	
1	Cable Gland	
1	Jam Nut	
1	Communication Connector (3-pin) www.phoenixcontact.com connector - MSTB 2,5/ 3-ST-5,08 P/N 1757022	
1	DIN Rail Power Connector www.phoenixcontact.com Plug - SPDB 2,5/ 2 P/N 3040410	

Installation

NOTICE

Disconnect power from the instrument. The instrument **SHOULD NOT** have power during this installation procedure.

1. Remove the hole plug in the enclosure and install the cable gland and jam nut.

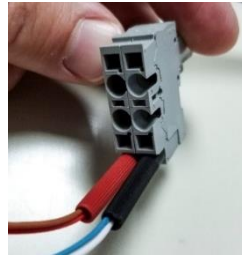


2. One end of the 10 m connection cable for the metrology station has been stripped back and ends added for connections inside the enclosure.

3. Insert the wire end of the cable through the gland. Tighten (hand tight) the gland around the cable to prevent leakage.



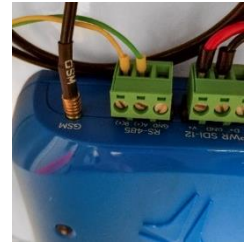
4. Insert the red and black wires into the connector as shown.



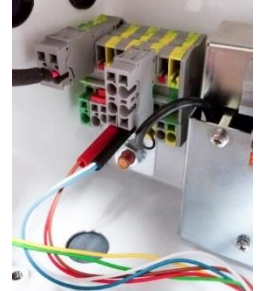
5. Attach RS-485/SDI-12 Communication Wires to green connector as shown. A small flat blade screw driver can be used to tighten the connector to the wires.



6. Insert the green connector into the Thiamis 1000 Node RS-485 socket.



7. Install the connector as shown to the DIN rail inside the enclosure.



8. Attach the other end of the cable to weather station. Tighten (hand tight) with a 14-mm open ended wrench (see figure to right).

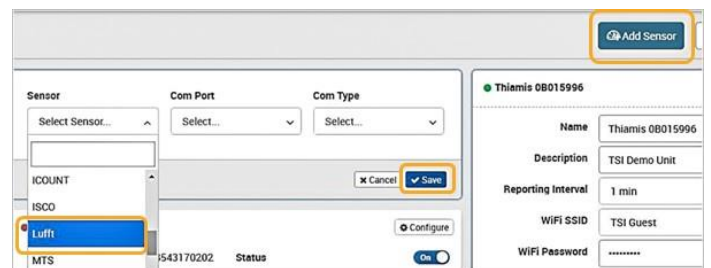


9. See the weather station manual for mounting instructions and specifications.

10. Reapply power to the instrument.

11. Environet can be used to pair the weather station to the Thiamis 1000.

- a. Click **Add Sensor** in the device configuration.
- b. Select **Lufft** from the pull-down menu and click **Save**.



Knowledge Beyond Measure.

TSI Incorporated – Visit our website www.tsi.com for more information.

USA Tel: +1 800 680-1220
UK Tel: +44 149 4 459200
France Tel: +33 1 41 19 21 99
Germany Tel: +49 241 523030

India Tel: +91 80 67877200
China Tel: +86 10 8219 7688
Singapore Tel: +65 6595 6388

