HEATED INLET SAMPLE CONDITIONER ACCESSORY (854041) FOR ENVIRONMENTAL DUSTTRAK MODELS 8540 AND 8543

QUICK START GUIDE

Thank you for purchasing a DustTrak[™] Aerosol Monitor Heated Inlet Sample Conditioner Accessory (PN 854041). This guide will help you quickly begin using your Heated Inlet Sample Conditioner.

Warning Labels



Warns that the instrument could be hot to the touch or a burn hazard.

Unpacking

- 1. Carefully unpack the Heated Inlet Sample Conditioner from the shipping container and verify that all the items listed in the following table are present.
- Contact <u>TSI</u> immediately if items are missing or broken.
- 3. Additional items may be included if you ordered accessories or spare parts.

Qty.	Item Description	Reference Picture
1	Heated Inlet Column	
1	RH/Temp Sensor	

Qty.	Item Description	Reference Picture
1	RH/Temp Sensor Gland	SE Nº
1	Heated inlet control module	
1	Power and Communication Cable	
1	Cover – Sun Shield for RH/Temp Sensor	C C C C C C C C C C C C C C C C C C C
1	Ferrite	

Tools Needed for Installation

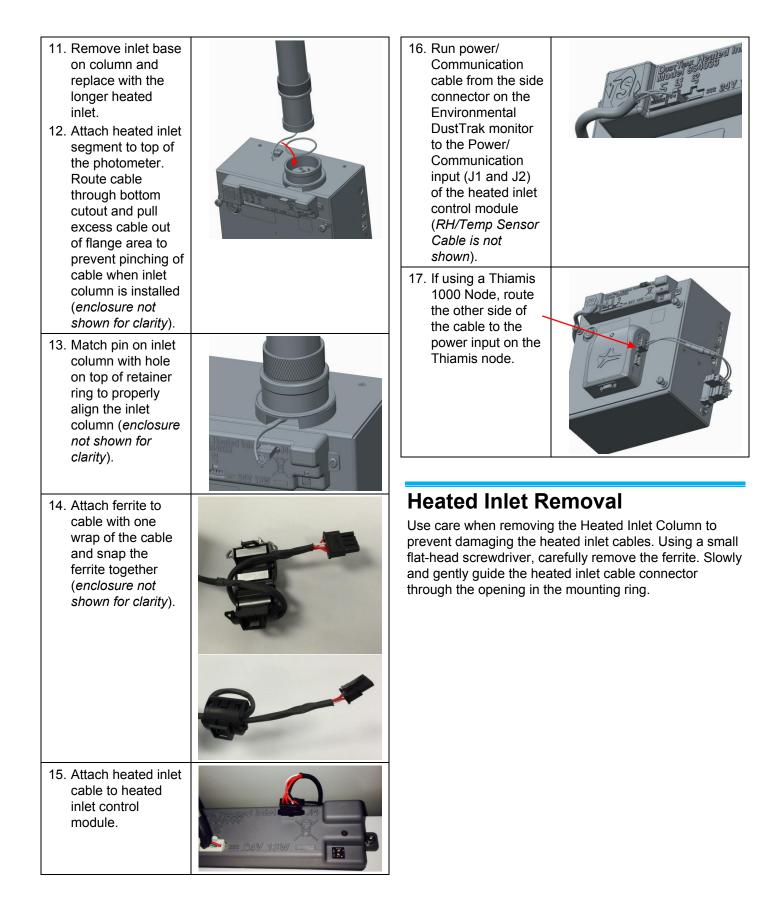
Small Flat-head Screw Driver (not included)	
7/64" Hex/Allen/ball wrench (not included)	



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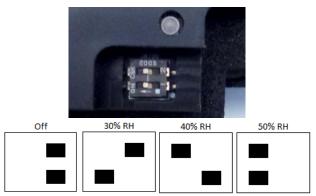
Installing Heated Inlet into

Installing Heated Inlet into Environmental Enclosure			6.	6. Attach the sun shield to the top of the RH/T Sensor as		
1.	Attach hea control mo the front of Photomete	dule to the	· · · · · · · · · · · · · · · · · · ·	7.	shown.	
2.	Set DIP sw desired hu conditionin (See Opera Instructions page 4.)	midity g setting. ating		1.	anchor pads and zip ties to secure cable to top of enclosure to facilitate Photometer installation.	3.75"
3.	3. If not already installed, attach inlet mounting ring to top of the photometer with the				2.625	
	keyhole opening to the front.		8.	Attach cable to back of photometer with adhesive-backed		
4.	4. Push out elastic plug and install RH/Temp Sensor Gland to side of environmental			mounting brackets.		
	enclosure.			9.	Install Photometer into environmental enclosure. See enclosure manual for steps.	
			WARNING			
2	Water gasket on gland must form a good seal with the exterior of the enclosure to ensure a waterproof seal.					
5. Insert RH/Temp Sensor through gland and tighten gland ring. Extend probe 1" (2.5 cm) past ring on end of probe.		10	. Attach RH/Temp Sensor cable to heated inlet control module.			



Operating Instructions

- 1. When powered and attached to the DustTrak monitor, the Heated Inlet will automatically function.
- 2. Select RH set point that will be controlled at the entrance to DustTrak monitor to be 30, 40 or 50% RH via the DIP switches. Heated inlet will then power heaters to heat incoming air and thereby decrease RH to the targeted level.



The LED describes the status of the heated inlet:

	-
Solid Green	Inlet temp. is < 1°C below set point and controlling to maintain set point.
Blinking Green	Inlet temp. is between 1 to 5°C below set point and controlling to improve.
Blinking Red	Inlet temp. is more than 5°C below set point and controlling to improve. This will occur when unit is first turned on and coming to temperature.
Solid Red	Sensor unplugged or has issue.

Specifications

Power	12-24 Volts DC; 13 Watts
Dimensions	Heated inlet 13 in. x 2 in. dia (33 cm x 5 cm) dia
	Control module 7 in. x 1.5 in. x 0.75 in. (17.8 cm) x (3.8 cm) x (1.9 cm)
Temp Range	0 to 50°C (32° to 122° F)
RH Range	0 to 95%
RH Set Points .	30% RH, 40%RH, 50% RH
Warm-up Time	17 minutes
CE	IEC 61326 & IEC 61010-1



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P/N 6008577 Rev. A

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Printed in U.S.A.
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