



THERMON PN50852U Terminator ZP-Ambient-WP Thermostat Connection Kit Instruction Manual

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Terminator™
ZP-Ambient-WP
Thermostat Connection Kit
INSTALLATION PROCEDURES
Instruction Manual



**For Ambient Sensing Thermostat Connection Applications
(Pilot Control or Direct Switching of 1-2 Heating Cables)**

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Terminator™ ZP-Ambient-WP

The following installation procedures are suggested guidelines for the installation of the Terminator ZP-Ambient-WP Kit. For translations other than English and local language translation provided here, please contact Thermon. The English language installation procedure shall govern.

Kit Contents

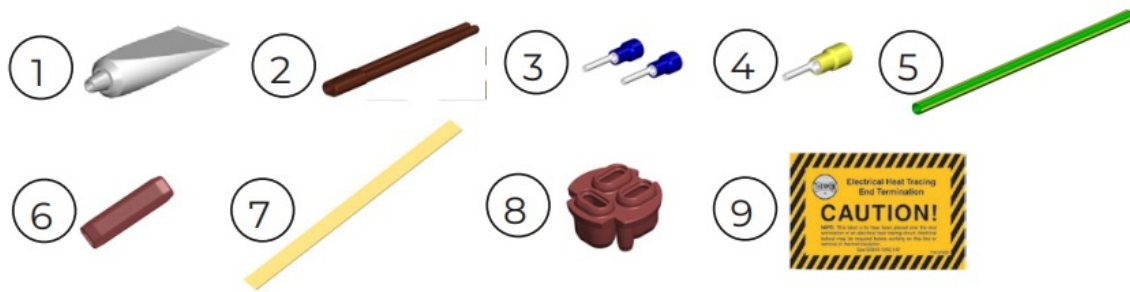


Item	Quantity	Description
1	1	Expediter Assembly Support Cap with O-Ring Threaded Grommet Compressor Grommet Support Base with O-Ring
2	1	Junction Box Lid
3	1	Junction Box Base with O-Ring
4	1	Nut
5	1	Banding
6	1	Terminal Blocks with DIN Rail (Refer to terminal specifications for maximum allowable wire size)
7	1	Junction Box Cord
8	2	Blind Plug
9	1	Bracket
10	3	Screws
11	3	Washers
12	1	Ambient Temperature Sensor

Order Separately

PETK Power and End Termination Kits (per cable)

PETK-1	for RSX, VSX-HT, BSX
PETK-2	for KSX, HTSX, USX
PETK-3	for HPT, FP



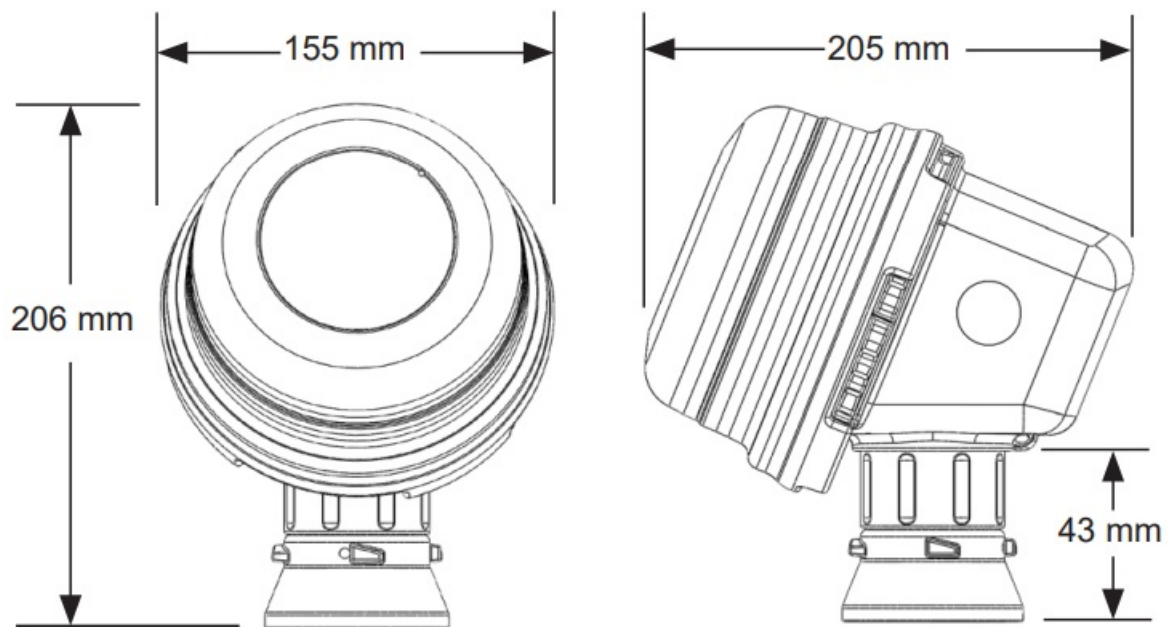
Item	Quantity	Description
1	1	RTV Tube
2	1	Power Connection Boot
3	2	Conductor Wire Pins
4	1	Braid Wire Pin
5	1	Ground Sleeve
6	1	End Cap
7	1	Tape Strip (PETK-3 only)
8	1	GRW-G Grommet (PETK-3 only)
9	1	End Termination Caution Label

IEK Insulation Entry Kit (per cable)

IEK-SXL:	for RSX, VSX-HT
IEK-SXM	for BSX
IEK-SXS	for KSX, HTSX, USX
IEK-HPT	for HPT



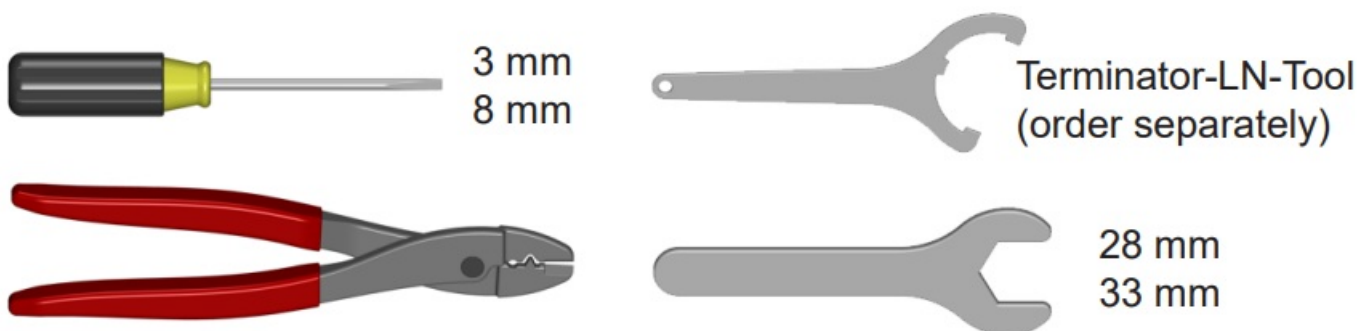
Dimensions



Warnings

- Due to the risk of electrical shock, arcing and fire caused by product damage or improper usage, installation or maintenance, a ground-fault protection device is required.
- Installation must comply with Thermon requirements (including form PN 50207U for Ex systems) and be installed in accordance with the regulations as per the norm EN IEC 60079-14 for hazardous areas (where applicable), or any other applicable national and local codes.
- Component approvals and performance ratings are based on the use of Thermon specified parts only.
- De-energize all power sources before opening enclosure.
- Avoid electrostatic charge. Clean only with a damp cloth.
- Keep ends of heating cable and kit components dry before and during installation.
- Minimum bending radius of heating cable is 32 mm (except HPT is 57 mm and FP is 19 mm).
- The thermostat must be protected with an IECEx/ ATEX certified max. 16A circuit breaker (fuse) on power lead.
- Individuals installing these products are responsible for complying with all applicable safety and health guidelines. Proper Personal Protective Equipment (PPE) should be utilized during installation. Contact Thermon if you have any additional questions.

Tools Required



Specific Conditions of Use

Avoid electrostatic charge. Clean only with damp cloth.

Certifications/Approvals

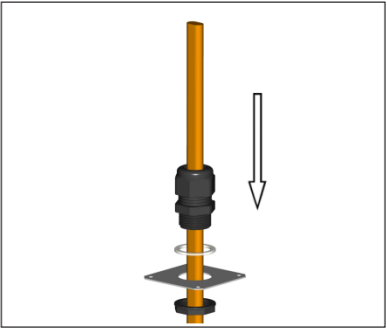
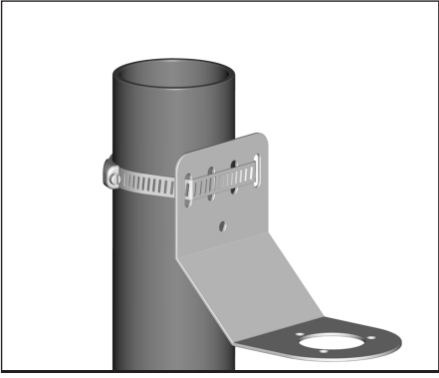
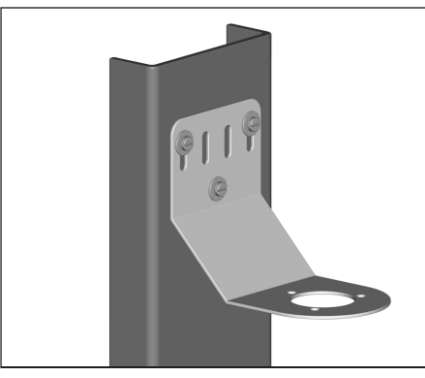
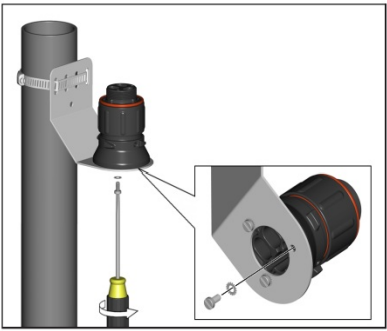
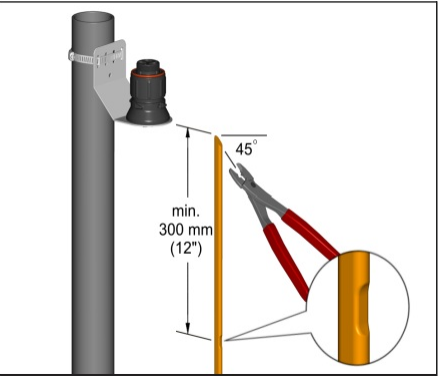
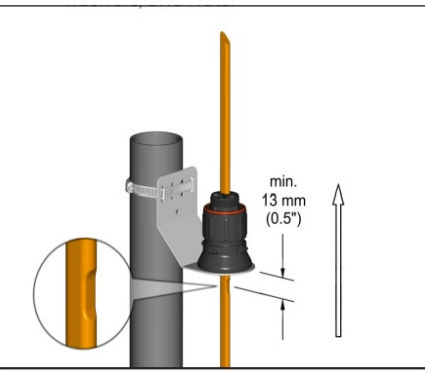
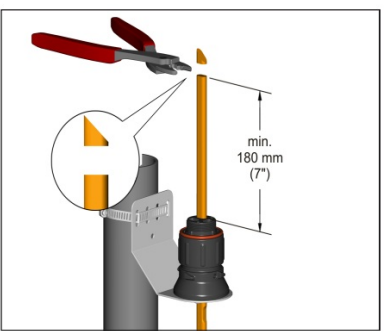
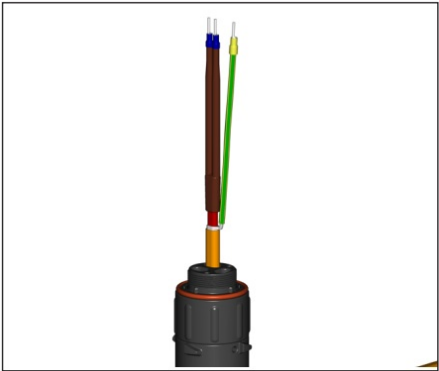
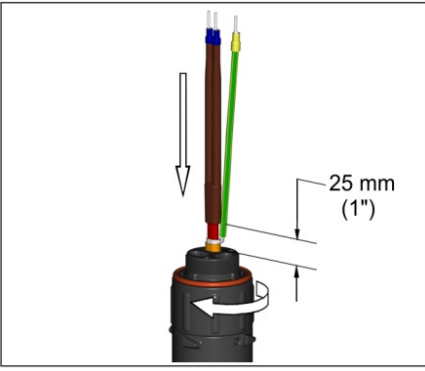
IP66 -50°C ≤ Ta ≤ +50°C

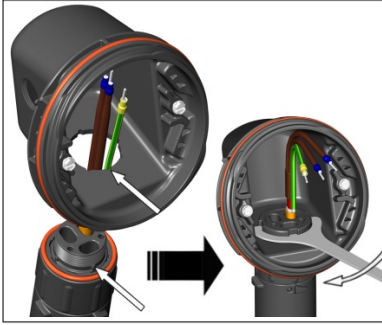
Ordinary & Hazardous Locations



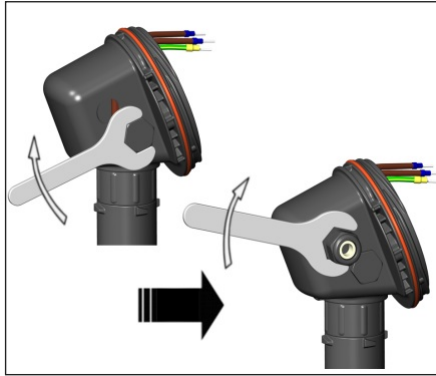
FMG 10.0022X Ex eb mb IIC T6...T4 Gb

CE 0344 Ex II 2 G Ex eb mb IIC T6...T4 Gb, FM 10ATEX0058X

		
<p>1. Slide appropriate IEK insulation entry kit components onto cable.</p>	<p>2a. Mounting Method 1: Secure wall mount bracket to mounting surface using pipe band provided with kits.</p>	<p>2b. Mounting Method 2: Secure wall mount bracket to mounting surface using customer supplied screws, flat washers, and nuts.</p>
		
<p>3. Mount expeditor to bracket using M5 x 8 mm screws and M5 lock washers.</p>	<p>4. Locate bus connection (HPT and FP only) as shown. Cut end of cable at angle to aid in piercing grommet. Leave additional cable for expansion as needed.</p>	<p>5. Insert cable into expeditor. Make sure bus connection (HPT and FP only) remains outside of expeditor. Note: For HPT and FP cable, exchange grommet in Terminator with GRW-G provided in PETK-3.</p>
		
<p>6. Cut off end of cable.</p>	<p>7. Terminate cable with appropriate PETK termination kit. Refer to PETK in stallation instructions.</p>	<p>8. Push excess cable back through expeditor. Tighten cap securely. Tape cable expansion loop to pipe.</p>



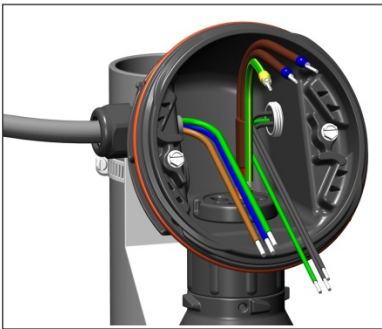
9. Mount junction box base on expediter.
Make sure to align slots to properly orient junction box base. Tighten nut with Terminator-LN-Tool. If mounting horizontally, threaded gland holes must face downward.



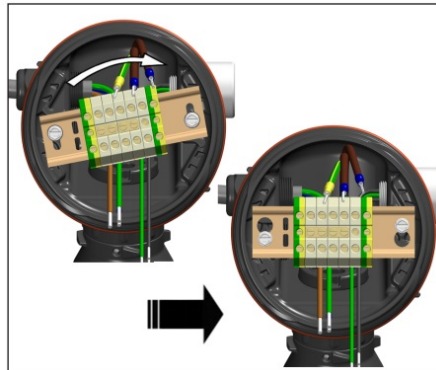
10. Install M25 power gland (order separately) and M25 blind plug. For inline splice, T-splice, or end termination, install additional M25 blind plug (order M25-B-EXE separately) instead of M25 power gland.



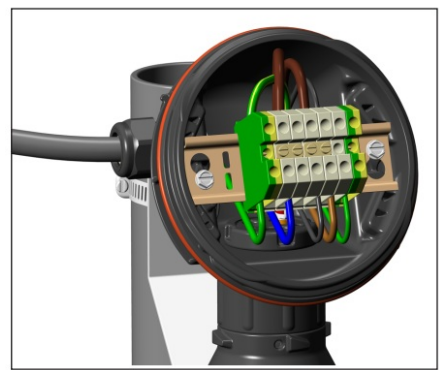
11. Install ambient temperature sensor.



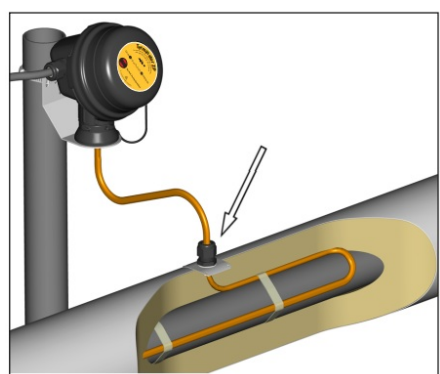
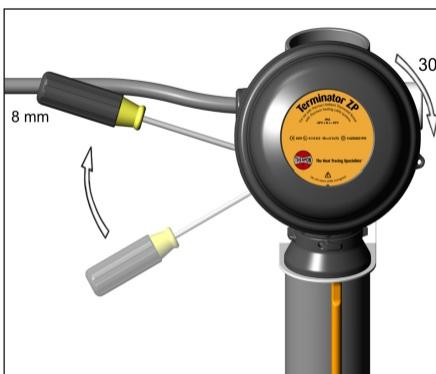
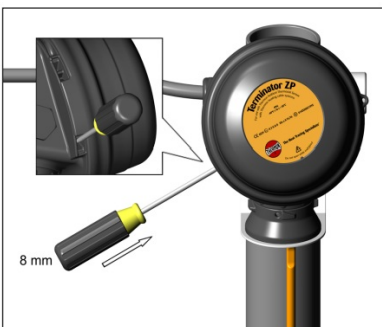
12. Install power cable.



13. Install quick mount terminal blocks and tighten screws (if necessary).



14. Complete system wiring. Terminal set screws shall be tightened to a torque value of 1.4 Nm (12.4 lb-in). See page 5 for wiring details.

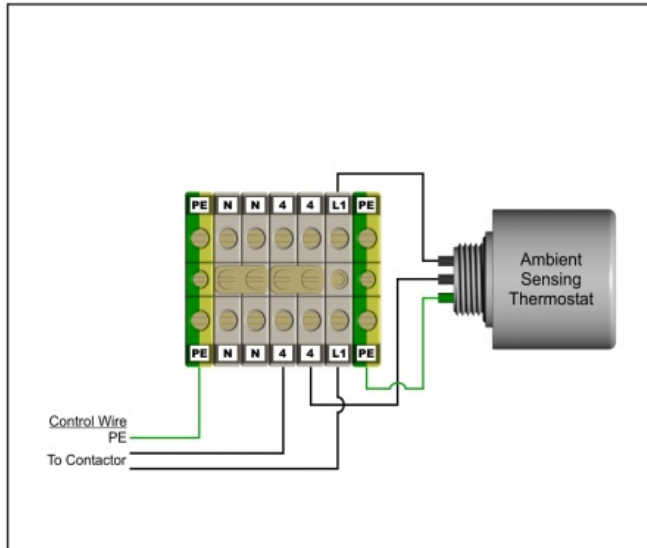


15. Install junction box lid and twist hand tight. Insert screwdriver into ratchet slots located on side of junction box base.

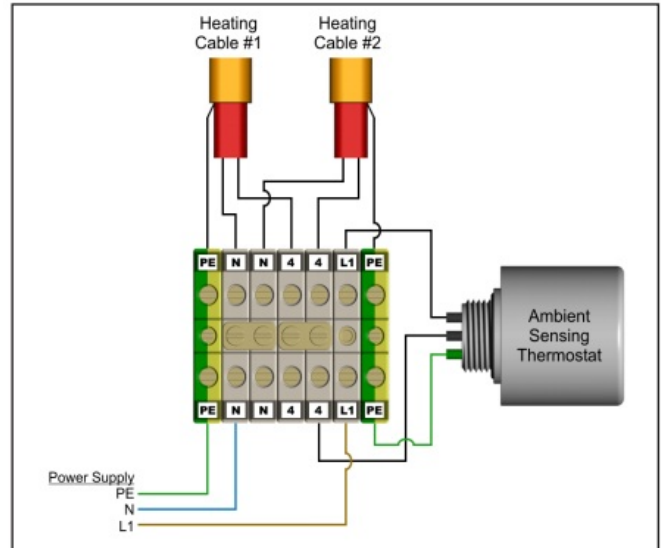
16. Use screwdriver to ratchet on junction box lid. Lid will rotate 30 degrees. To remove lid, repeat steps 15 and 16 but in the opposite direction.

17. Install IEK insulation entry kit to seal heating cable penetration through insulation cladding.

Wiring Details



Pilot Control



Direct Cable Switching (1 to 2 Heating Cables)



In order to avoid EMI issues with a temperature controller, the shield of the control wire shall be connected to the instrumentation earth only. Do not connect the control wire shield in the junction box.



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Form PN50852U-0222

Documents / Resources



[THERMON PN50852U Terminator ZP-Ambient-WP Thermostat Connection Kit](#) [pdf] Instruction Manual
PN50852U Terminator ZP-Ambient-WP Thermostat Connection Kit, PN50852U, Terminator ZP-Ambient-WP Thermostat Connection Kit, ZP-Ambient-WP Thermostat Connection Kit, Thermostat Connection Kit, Connection Kit, Kit

References

-  [World Leader in Industrial Process Heating | Thermon](#)

Manuals+.