

Terminator™ ZP-PTD100-WP

Temperature Sensor Connection Kit

INSTALLATION PROCEDURES

For Use with PTD-100 Temperature Sensors



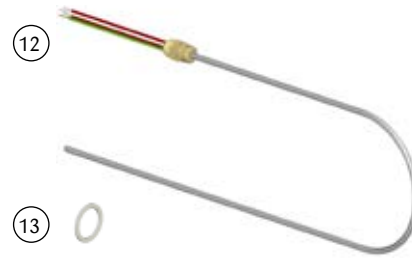
The Heat Tracing Specialists®

Kit Contents . . .



Item	Quantity	Description
1	1	Expediter Assembly Support Cap with O-Ring Threaded Grommet Compressor Grommet Wall Mount Support Base with O-Ring
2	1	Junction Box Lid
3	1	Junction Box Base with O-Ring
4	1	Wall Mount Bracket
5	3	M5 Screws
6	3	Lock Washers
7	1	Terminal Block with DIN Rail
8	1	Junction Box Lid Cord
9	1	Nut
10	1	Power Gland
11	2	Blind Plugs
12	1-2	PTD-100 Temperature Sensor(s)
13	1	Sealing Washer
14	1	Banding (for PTD-100 Temperature Sensor) Banding (Optional, see Steps 1a or 1c)
15	1	XP-1 Bracket (Optional, see Step 1c)

PTD-100 Temperature sensor Kit (order separately)

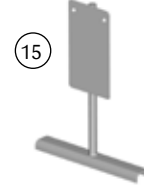


B-type Tanding (order separately)

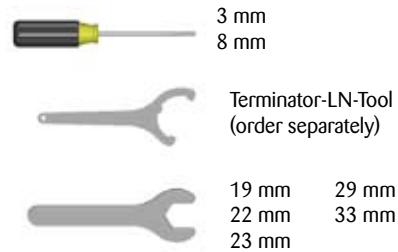
B-4: for pipes up to 4"
B-10: for pipes up to 10"
B-21: for pipes up to 21"



XP-1-140X80 Stainless Steel Mounting Bracket (order separately)



Tools Required . . .



Certifications/Approvals . . .

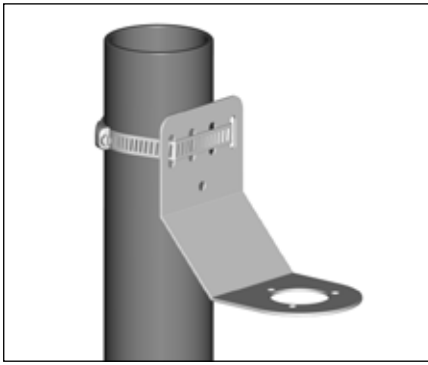
IP66 -48°C ≤ Ta ≤ +55°C
Ordinary & Hazardous Locations

IECEx FMG 10.0022X Ex db eb IIC T4-T6, Ex tb IIIC T135°C-T85°C

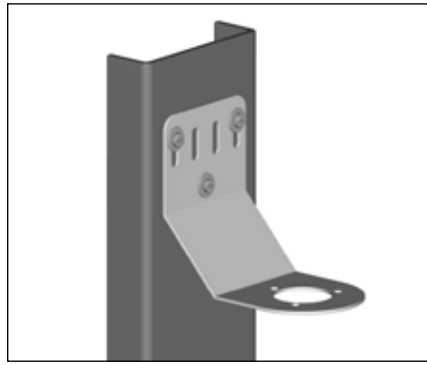
CE 1725 Ex II 2 GD Ex db eb IIC T4-T6, Ex tb IIIC T135°C-T85°C FM 10ATEX0058X

Warnings . . .

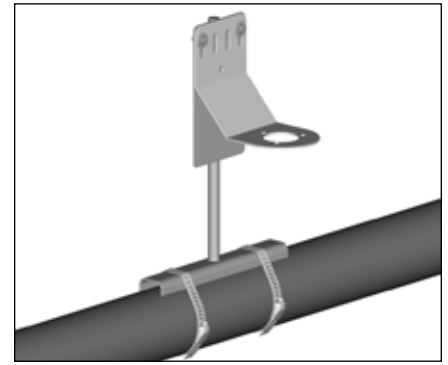
- Due to the risk of electrical shock, arcing and fire caused by product damage or improper usage, installation or maintenance, a ground-fault protection device is required.
- Installation must comply with Thermon requirements and be installed in accordance with the regulations as per the norm EN IEC 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.
- Keep temperature sensor and kit components dry before and during installation.
- Minimum bending radius of heating cable is 30 mm. Measuring tip (15 mm in length) should not be bent.



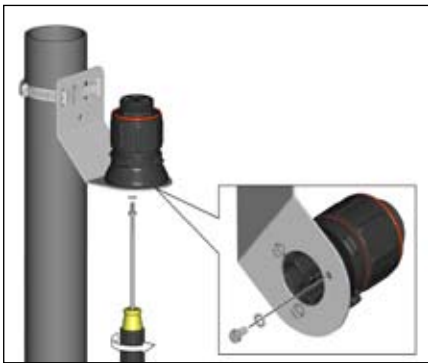
1a. Mounting Method 1: Secure wall mount bracket to mounting surface using pipe band.



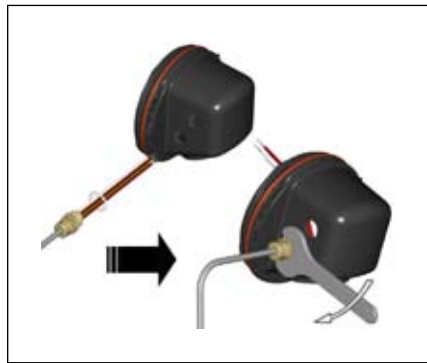
1b. Mounting Method 2: Secure wall mount bracket to mounting surface using screws, washers, and nuts (user supplied)



1c. Mounting Method 3: Secure XP-1 mounting bracket to pipe using pipe bands. Secure wall mount bracket to XP-1 using screws, washers, and nuts (user supplied)



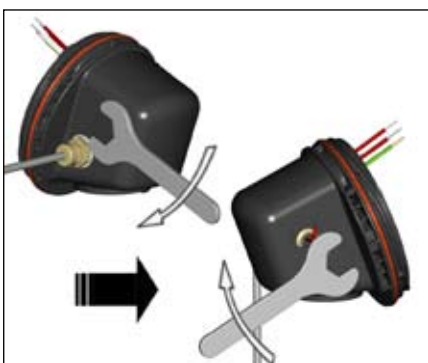
2. Mount expediter to bracket using M5 screws and lock washers.



3. Place M20 sealing washer on temperature sensor gland connector. Route temperature sensor leads through M20 threaded entry. Screw gland connector into junction box.



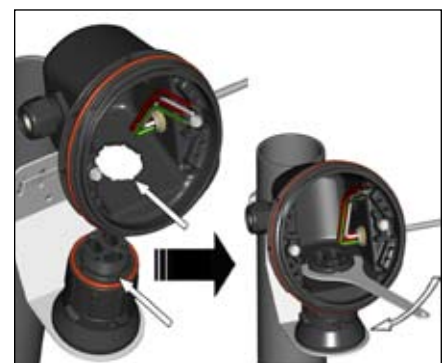
4. Make sure temperature sensor body is fully inserted into gland connector. Tighten gland connector..



5. Install M20 blind plugs in remaining M20 threaded entries.

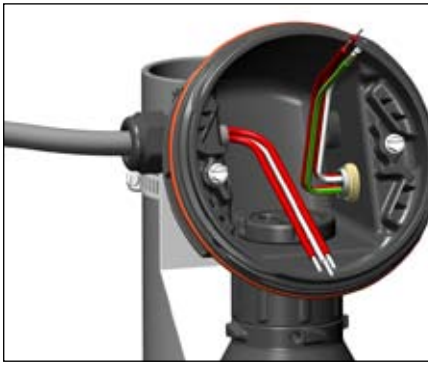


6. Install M25 power gland in M25 threaded entry.

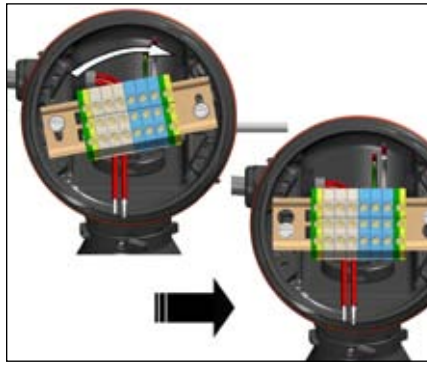


7. Mount junction box base on expediter. Make sure to align slots to properly orient junction box base. Tighten nut with Terminator-LN-Tool. If mounting horizontally, threaded gland holes must face downward.

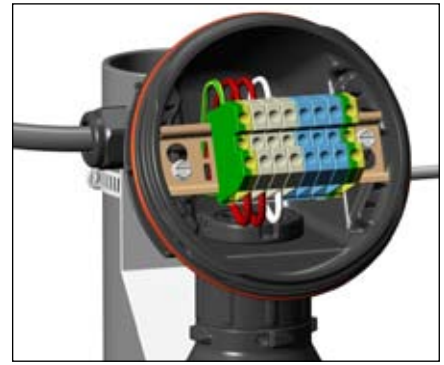




8. Install control wiring (user supplied, 6 mm² max). 3 wire cable (for 1 sensor) or 6 wire cable (for 2 sensors) with braided earth shield is recommended.



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



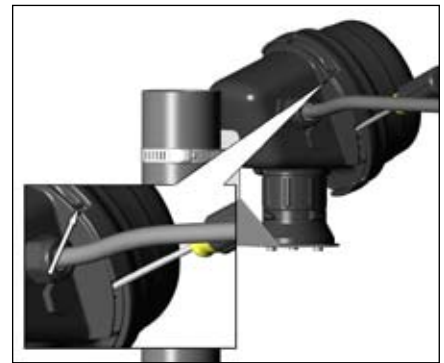
10. Complete system wiring. Terminal set screws shall be tightened to a torque value of 1.4 Nm (12.4 lb-in). See page 5 for wiring details.



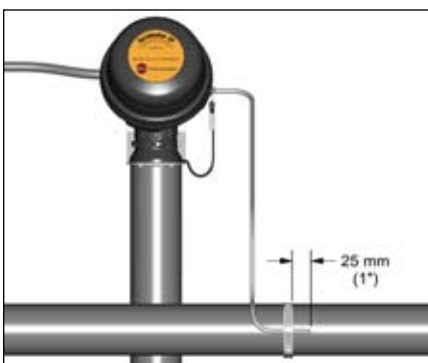
11. Install junction box lid and twist hand tight. Insert screwdriver into ratchet slots located on side of junction box base.



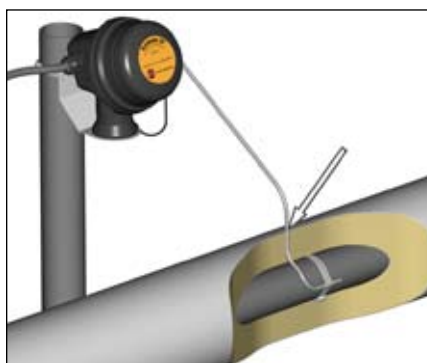
12. Use screwdriver to ratchet on junction box lid. Lid will rotate 30 degrees.



13. Lid latch mechanism fully engaged. To remove lid, repeat steps 11 and 12 but in the opposite direction.



14. Fix temperature sensor to pipe using pipe band.

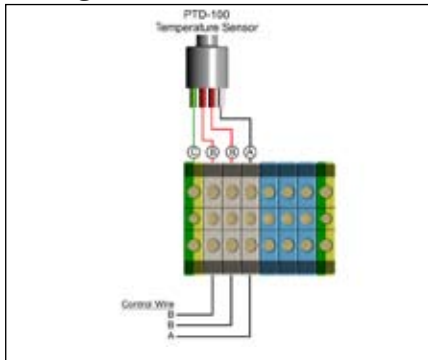


15. Seal temperature sensor penetration through insulation cladding.

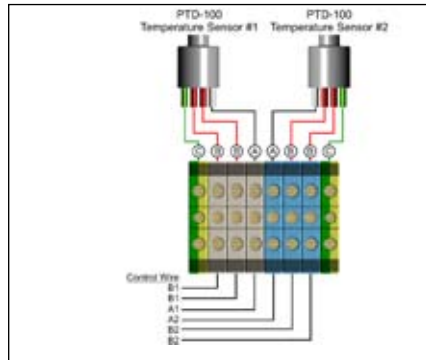


16. For ambient sensing applications, the mounting location should be representative of the coldest region, and the sensing element should not be exposed to direct sunlight or any additional heat source.

Wiring Details



A1. Control Wire Connection (1 Sensor)
A = White, B = Red, C = Green / Yellow



A2. Control Wire Connection (2 Sensors)
A = White, B = Red, C = Green / Yellow



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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