



TURNTIDE RMK Remote Monitoring Kit with Remote WiFi Antenna Installation Guide

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RMK Remote Monitoring Kit with Remote WiFi Antenna Installation Guide



The Turntide Remote Monitoring Kit provides the easiest way to enable remote monitoring of HVAC equipment driven by the Smart Motor System.

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Software Wrapped in Metal™

The Turntide software-driven motor solution includes the Turntide Smart Motor and the Turntide Motor Controller, complete with networking and connection capabilities to Turntide Cloud Services. It is proven to significantly reduce energy consumption, dramatically reducing energy costs and carbon footprint resulting from the electric motor operation.

Overview

This Kit includes everything needed to connect a Smart Motor System to the internet. Choose the Turntide-provided cellular service for hassle-free network setup.

Once an internet connection is established, the Remote Monitoring Kit will automatically connect to Turntide's secure Cloud platform to provide you remote access to your equipment data.

CONSIDERATIONS



- Review this installation guide and available installation training videos before beginning
- Follow all local and national electrical codes, safety compliance requirements, and common installation procedures
- Cables provided by Turntide are NOT rated for outdoor use

Know Before You Go

Below is a list of the common tools that are required to install the Turntide Remote Monitoring Kit. Every application is different, and additional tools may be required. Check your toolbox to make sure you have all the tools you'll need.

Tools You'll Need



Cordless Drill



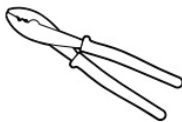
Uni-bit, Hole Saw,
or Knock Outs
for 1/2", 3/4", & 1" EMT



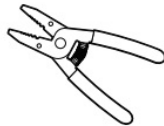
Drill Bit Index



Clamp Amp Meter



Terminal (Spade)
Crimp Tool



Wire Strippers



Multi-VOM Meter



Nut Driver
1/4" and 5/16"



Adjustable Pliers



Needle Nose Pliers



Screwdriver
Phillips



Screwdriver
Slot

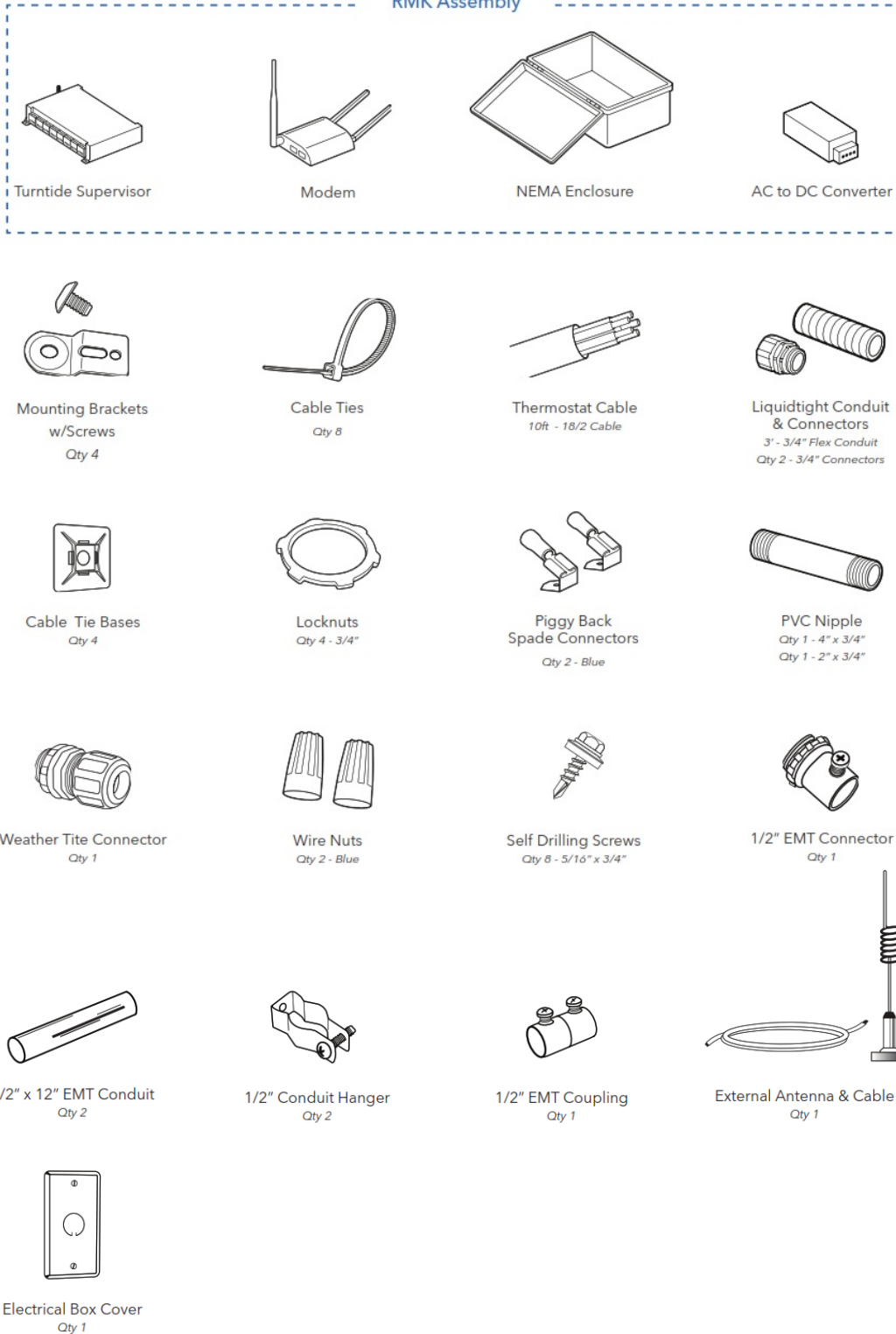


Screwdriver
Small Terminating

What's Included

Everything commonly necessary to install the Remote Monitoring Kit is provided. The following is a list of components.

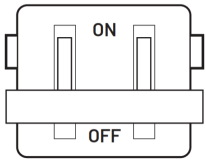
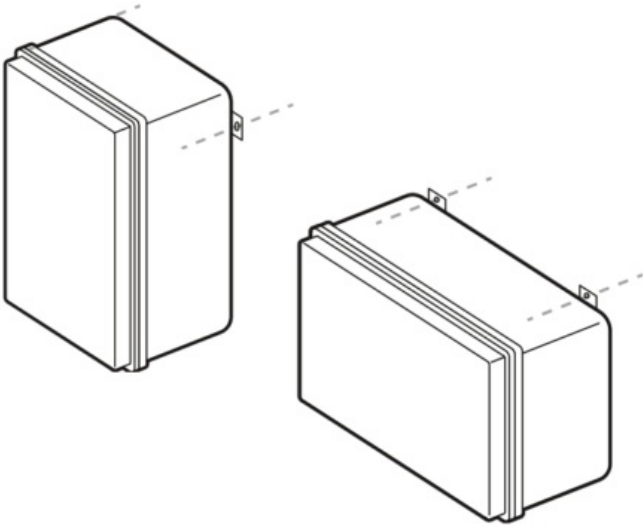
RMK Assembly



Step-by-Step Installation of Remote Monitoring Kit

Follow these simple step-by-step instructions to install the Turntide Remote Monitoring Kit (RMK) for most common applications. Follow all local codes and common installation procedures.

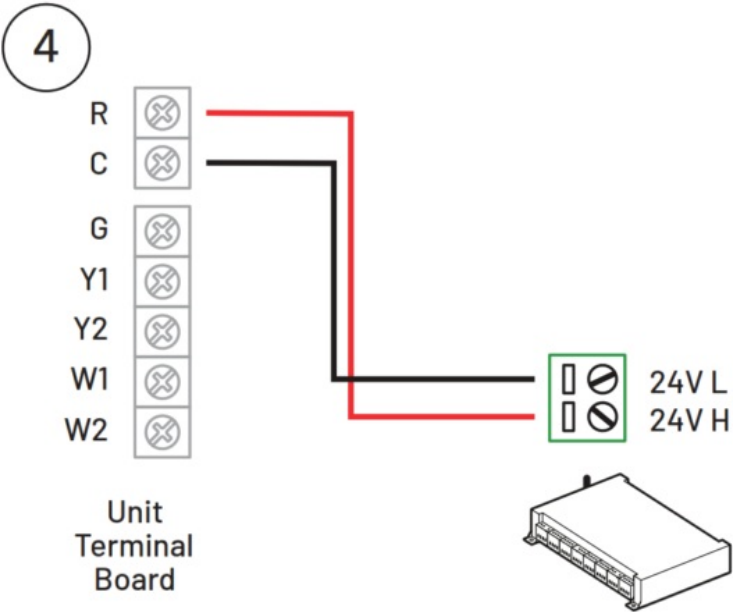
Install the Enclosure

<p>1</p> 	<p>2</p> 	
<p>Turn power to the unit off.</p>	<p>Install enclosure near the unit control panel – either vertically or horizontally – using the external brackets and self-tapping screws.</p>	<p>Ins nal</p>

Wire Components

Install new wires from R and C on the unit to the 24 volt terminal on the Turntide Supervisor, R to the 24V H, and C to the 24L. Leave the existing wires for the AC to DC converter on the terminals.

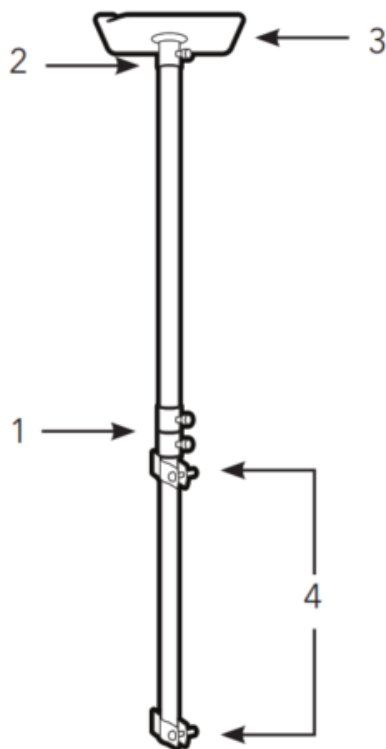
Note: 24-volt wiring is polarity sensitive. If wiring is terminated incorrectly, it will damage the Turntide Supervisor or the control transformer.



 Do NOT ground the internal panel of the enclosure.

Assemble Antenna Mount

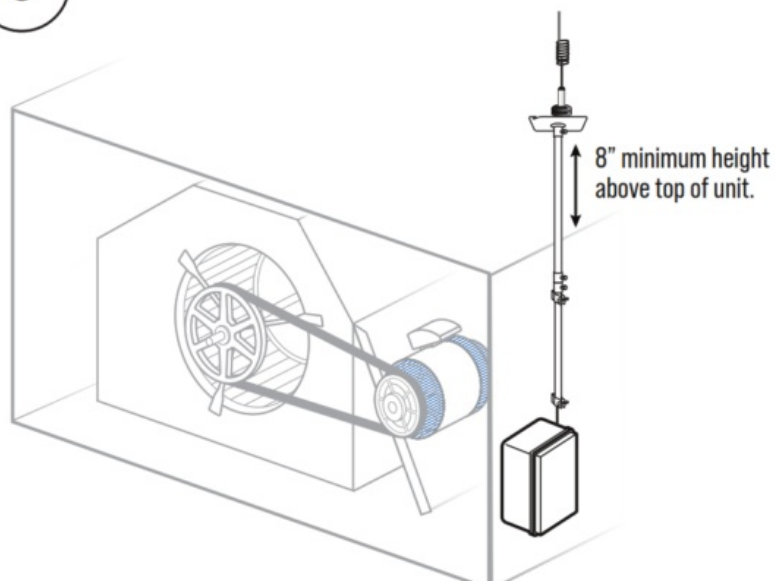
5



1. Connect the two EMT conduit sections using the EMT coupling.
2. Install the EMT connector on one end of the assembly.
3. Attach the box over to the EMT connector.
4. Attach the assembly to a nonremovable panel of the unit using the two conduit hangers and sheet metal screws.

Install the antenna on top of the electrical box cover. Route wire down through the EMT conduit. Enter the enclosure through the weather-tight connector.

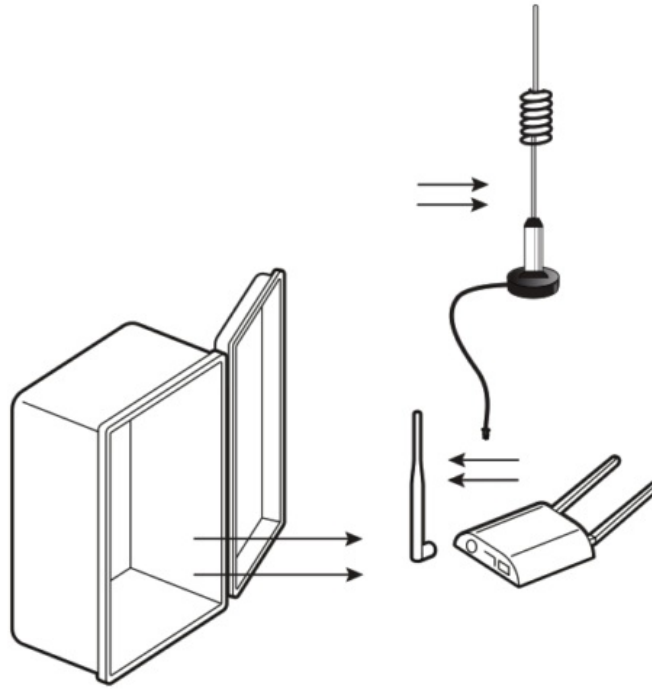
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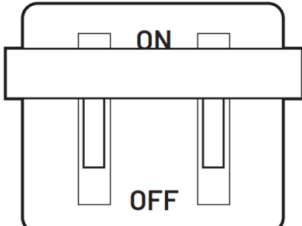
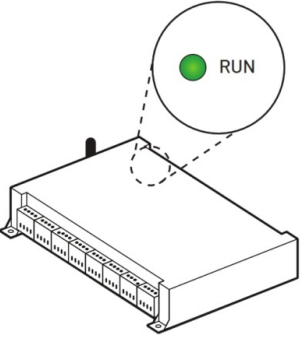
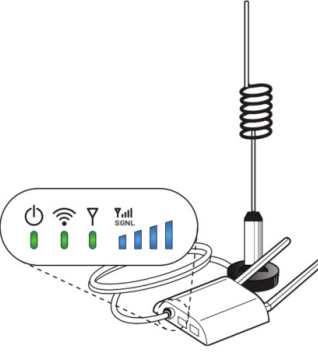
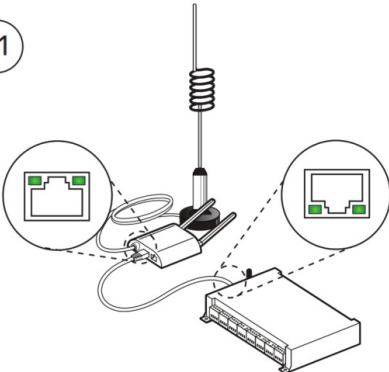
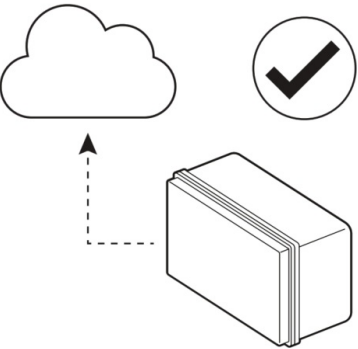
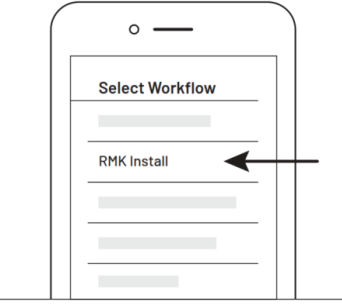
Remove the existing WiFi antenna from the modem. Connect the supplied external antenna.

IMPORTANT NOTE: The RMK antenna connector differs from the antenna used with the motor controller. The antennas are not interchangeable.

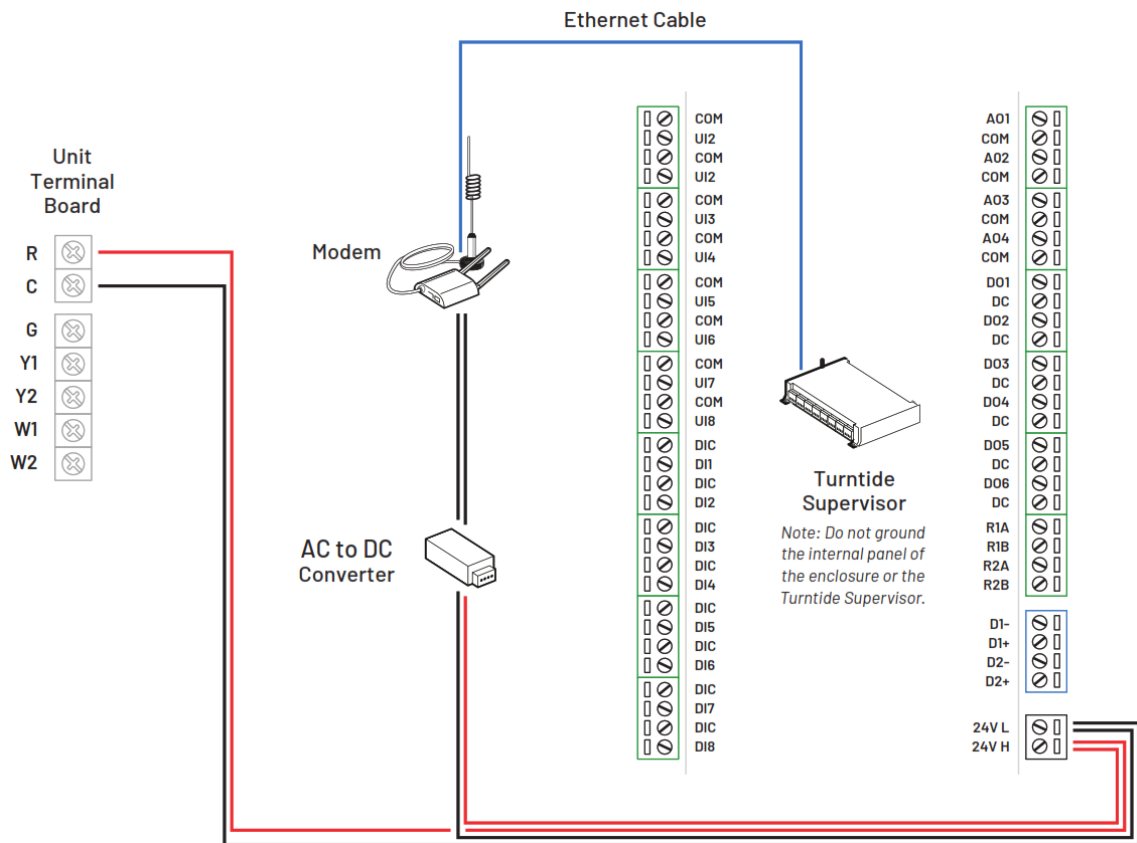
7



System Startup

<p>8</p> 	<p>9</p> 	<p>10</p> 
<p>Turn the power on to the unit.</p>	<p>Verify the Turntide Supervisor has power and is running by checking the green RUN LED.</p>	<p>Verify the LED on the modem are green for power/wifi/connection to cell and blue for cell strength.</p>
<p>11</p> 	<p>12</p> 	<p>13</p> 
<p>Make sure the internet cable is completely plugged into the modem and the Turntide Supervisor and that there is a green LED on both devices.</p>	<p>Contact Turntide (877-776-8470) to confirm the RMK is operating and posting data to the cloud.</p>	<p>After installation is finished, complete the RMK Install workflow on the XOi mobile app.</p>

Wiring Diagram



Contact Us

If you encounter issues that are not covered in this Install Guide or have other questions about the Turntide Motor System as it relates to your specific application, please contact Turntide's Customer Success team.

Indemnity

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Turntide Technologies (formerly Software Motor Company) has developed the world's most efficient and intelligent electric motor system. The revolutionary Smart Motor System is based on proven switched reluctance technology, now managed with advanced cloud software and connected to precise controls via IoT. Turntide's vision is to eliminate the 25% of global electricity consumption that is wasted by legacy motors, thus accelerating the world's transition from fossil fuels. Turn time is based in Sunnyvale, Calif., with offices in San Francisco; Arlington, Wash.; and Kennesaw, Ga. Turntide has installed Smart Motor Systems with dozens of customers, reducing their motor electricity consumption by an average of 64%, and is powering the systems of leading OEMs. For further information, visit www.turntide.com.

POWER IS VALUABLE. USE IT INTELLIGENTLY.

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Documents / Resources

	<p>TURNTIDE RMK Remote Monitoring Kit with Remote WiFi Antenna [pdf] Installation Guide RMK Remote Monitoring Kit with Remote WiFi Antenna, Remote Monitoring Kit with Remote Wi Fi Antenna, Kit with Remote WiFi Antenna, Remote WiFi Antenna, WiFi Antenna</p>
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References

- [Homepage - Turntide Technologies](#)

Manuals+.