

Downloading Ethernet and Serial Drivers for Watlow® Controllers

By: Admin - May 27, 2025



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Optimize your temperature and humidity control systems with the right drivers and software tools from Watlow®, a global leader in industrial thermal management.

Watlow provides OEMs, system integrators, and design engineers with advanced solutions for achieving precise humidity and temperature control in demanding industrial environments. One of the most critical steps in optimizing your system is downloading the correct Ethernet and serial drivers for your temperature and humidity controller with sensor.

Why Watlow Drivers Matter for Field Communication

Serial and Ethernet drivers are essential components in industrial field communications. They facilitate seamless integration of temperature and humidity controllers with software platforms for remote monitoring, data logging, and performance optimization.

Watlow simplifies the process with a driver layout that supports plug-and-play functionality and high adaptability, even in complex setups involving multiple controllers.

Driver Layout: EZ-ZONE® RUI and Gateway Method

Watlow users often rely on the EZ-ZONE® RUI (Remote User Interface) and Gateway (<https://www.watlow.com/en/products/controllers/operator-interfaces/ez-zone-user-interface-gateway>) method to connect up to 16 controllers on a standard bus protocol. This method is ideal for managing systems with 9–10 EZ-ZONE® PM (<https://www.watlow.com/en/products/controllers/temperature-and-process-controllers/pm-plus>) controllers where individual control is essential.

The RUI gateway offers a cost-effective alternative to integrating communication modules in each device and supports industry-standard protocols like:

- Modbus® RTU
- Modbus® TCP
- DeviceNet™
- Profibus DP
- Ethernet/IP

These features are especially useful when implementing temperature and humidity control in multi-zone or distributed environments.

Compatible Software for Watlow Temperature and Humidity Controllers

To take full advantage of your temperature and humidity controller with sensor, use software that offers maximum compatibility and functionality. Watlow supports several robust software options:

1. EZ-ZONE Configurator (<https://www.watlow.com/en/products/controllers/software/ez-zone-configurator-software>)

Supports EZ-ZONE PM, RM, and ST controllers. Features include:

- Management of up to 40 profiles
- Save/load profile parameters
- Firmware upgrades for supported devices
- Bus protocol support

2. COMPOSER®

COMPOSER software (<https://www.watlow.com/en/products/controllers/software/composer-software>) supports F4T®, D4T™, EZ-ZONE® PM and RM, and RUI controllers. Key features:

- Function block diagram editing
- Offline system views
- Integrated with profile engine for intuitive humidity and temperature control

3. LabVIEW™ Driver

Free to download, the LabVIEW™ driver

(<https://www.watlow.com/en/products/controllers/software/labview-driver-software>) enables communication with:

- F4T, D4T, and EZ-ZONE controllers
- Four key virtual instruments (Initialize, Read, Write, Close)
- Uses standard bus protocols

4. SpecVIEW

A SCADA solution for system-wide monitoring, SpecVIEW

(<https://www.watlow.com/en/products/controllers/software/specview-scada-software>) supports:

- Custom dashboards and screens
- Remote access and data logging
- Automatic detection of compatible Watlow controllers
- Excludes Modbus®-based EZ-ZONE devices

Watlow Connectivity Options

To optimize your controller's communication capabilities, choose the right adaptor connection based on your system:

- USB to RS-485: Ideal for RAM-based controllers
- USB to Ethernet (RJ45): Best for F4T controllers needing remote access and display support

For advanced operations, OEMs can integrate OITs (Operator Interface Terminals) into their temperature and humidity controller with sensor for better user interface and functionality.

Watlow's Silver Series OITs are available in:

- 4.3-inch

- 7-inch
- 10-inch

These interfaces support serial, USB, and Ethernet connectivity and run on EZwarePLUS software.

Key features include:

- Remote monitoring
- Trend logging
- Touchscreen control
- Enhanced humidity and temperature control in real-time

Why Choose Watlow?

Watlow is a globally trusted supplier of advanced thermal systems, from PID temperature controllers to temperature and humidity control modules. Every Watlow product undergoes rigorous testing to ensure reliability, precision, and seamless integration into industrial automation systems.

Get Started

Download the latest Ethernet and Serial Drivers for Watlow® controllers from the official Watlow website (<https://www.watlow.com/>) and enhance your temperature and humidity controller with sensor setup today.



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