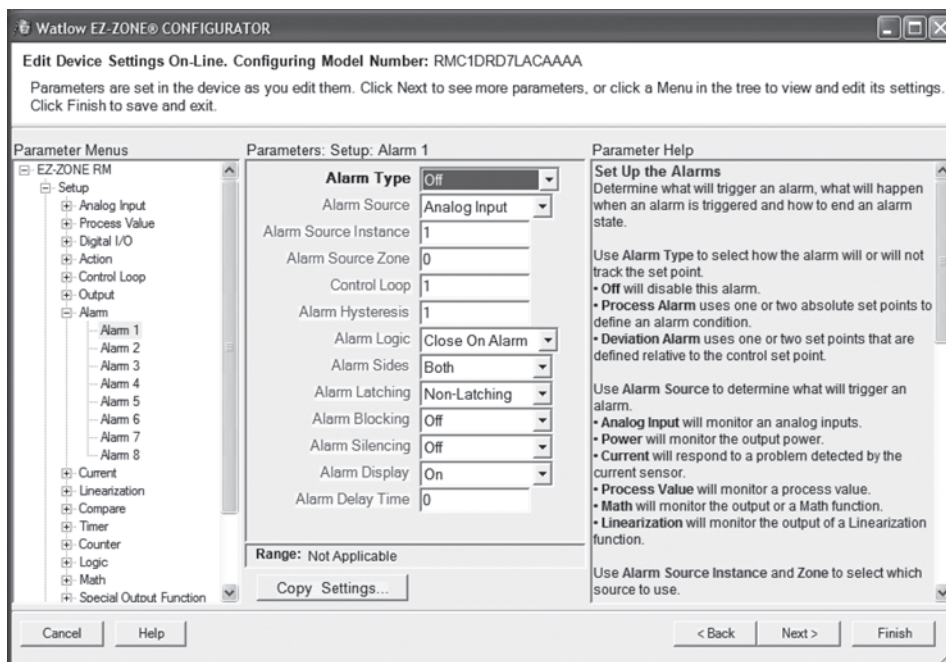


Product	Description	Supported Controllers	Operating Requirements	Page
COMPOSER® With INTUITION®	Software for configuring Watlow controllers	F4T and EZ-ZONE RM	Windows® 8.1, 8 and 7	395
EZ-ZONE® Configurator	Software for configuring EZ-ZONE products	EZ-ZONE controllers	Windows® 8 and 7	397
EZ-ZONE LabVIEW™ Driver	Virtual instruments (VIs)/driver to interface LabVIEW™ with EZ-ZONE products via standard bus	EZ-ZONE controllers	LabVIEW™ versions 8.6 and later	399
EZ-ZONE GSD Editor	Software for creating PROFIBUS GSD files for EZ-ZONE products	EZ-ZONE controllers	Windows® 8 and 7	400
EHG® SL10 Software	Software for configuring and monitoring EHG SL10 controller	EHG SL10	Windows® XP Professional	401
SpecView HMI Software	Human machine interface for Watlow® controllers	See catalog page 386	Windows® 10, 8.1, 8, 7, Vista, Server 2003, XP (Home and Professional), 2000, NT 4.0, ME, 98 and 95	402
EZwarePlus	Silver Series EM OITs	Silver Series EM OITs	Windows® 10, 8.1, 8, 7, Vista and XP	403
WATVIEW™	Human Machine Interface for older Watlow controllers	See catalog page 392	Windows® XP	405





Software

COMPOSER® With INTUITION®

COMPOSER® with INTUITION® is Watlow's new, easy-to-use software for configuring and customizing controllers. Use it to optimize Watlow's F4T and EZ-ZONE® RM controllers for specific applications. Task-specific views simplify all aspects of commissioning new controllers including managing the inputs and outputs from pluggable flex modules, setting up functions such as control loops and alarms and creating and editing profiles. COMPOSER software is included on the "Watlow Support Tools" DVD and available for download at www.watlow.com.

Features and Benefits

Function block diagram with live data and error indication

- Enables application-specific configuration of controller functions
- Depicts the configuration visually making it easy to understand
- Simplifies explaining the application to others
- Speeds up application testing and troubleshooting
- Illustrates connections between physical inputs and outputs and controller software functions
- Indicates process values and errors simplifying validation

Multi-language support

- Prevents errors by communicating with users in their own languages

System image files contain complete configuration

- Makes it fast and easy to duplicate settings from one system to another
- Simplifies sending configurations to remote sites
- Provides backup of settings to restore if settings are changed or controller is replaced

Dashboard view

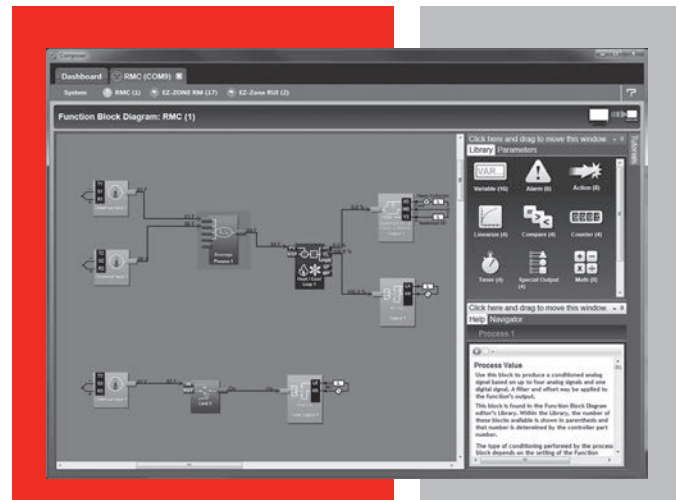
- Makes it easy to connect to controllers
- Clearly indicates when there are configuration errors that need to be addressed
- Allows downloading configuration files without allowing access to setup and configuration views

Configurable interface

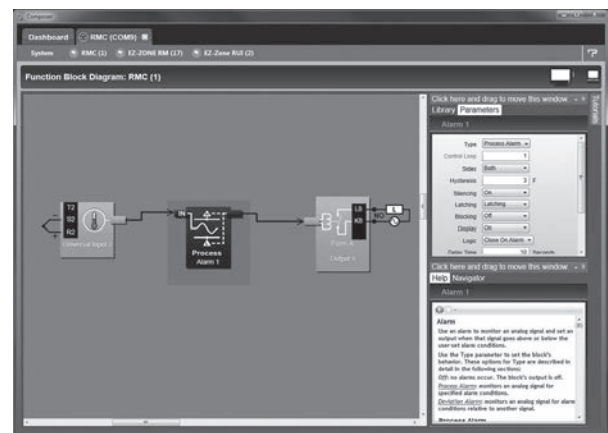
- Lets users adjust window sizes and positions to work efficiently

Integrated video tutorials and help

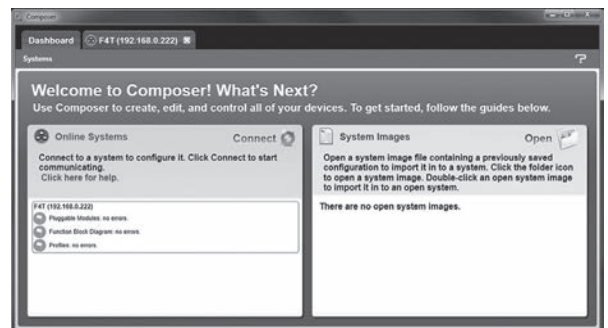
- Speeds up commissioning by demonstrating configuration steps
- Simplifies access to function block and parameter descriptions
- Reduces configuration errors
- Helps the user take full advantage of available features



Illustrations from COMPOSER



Function block diagram makes it easy to visualize application solutions.



Dashboard makes it easy to connect, indicates configuration errors and allows downloading configuration files without allowing access to setup.

COMPOSER With INTUITION

Technical Data

Additional Features and Benefits for F4T

Profile editor

- Speeds up profile creation and editing
- Allows maintenance of profile list in controllers from a remote PC
- Makes it easy to move profiles from one controller to another
- Exports profiles to PC files for backup and portability

Fast, reliable Ethernet support

- Easily connects to one or more controllers
- Minimizes time to read and write configuration settings

Pluggable flex module management

- Simplifies configuration by clearly indicating which hardware is present
- Shortens commissioning by allowing user to configure controller for flex modules prior to installing them

Security configuration

- Allows OEMs and supervisors to limit permissions to specific features
- Controls access via COMPOSER and controller
- Prevents errors and reduces downtime by preventing undesired configuration changes

Calibration view with on-screen instructions and automation

- Reduces downtime by simplifying the calibration verification procedure

Features by Supported Product

Feature	F4T	EZ-ZONE			
		RM	RUI	PM	ST
Connect via Ethernet	✓				
Connect via 485		✓	✓	✓	✓
Function block diagram view	✓	✓			
System overview	✓	✓	✓	✓	✓
Device details	✓	✓	✓	✓	✓
Save and import system images	✓	✓	✓	✓	✓
Pluggable modules view	✓				
Password security setup	✓				
Calibration utility	✓				
Ramp and soak profile editing	✓				

Note: When a system includes an EZ-ZONE PM or EZ-ZONE ST, it appears in the system overview, is supported with a device details view and its settings are saved and imported with system image files, but no other functionality is supported at this time.

Specifications

Supported Products

Product	Minimum Version
F4T with INTUITION	2.0
EZ-ZONE RM: RMC, RME, RMS, RMH, RML	9
EZ-ZONE RM: RMA	5
EZ-ZONE RUI	6

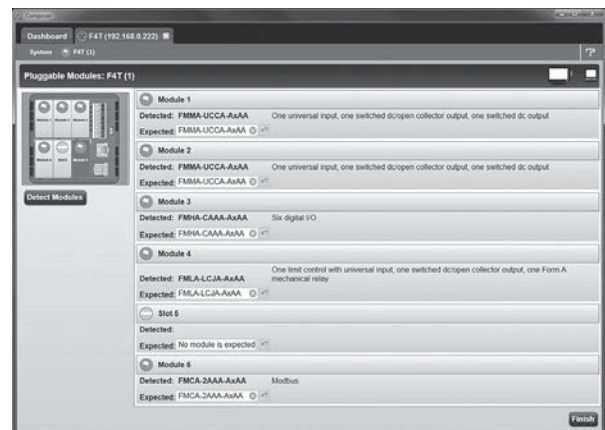
Compatible Operating Systems

- Windows® 8.1
- Windows® 8
- Windows® 7

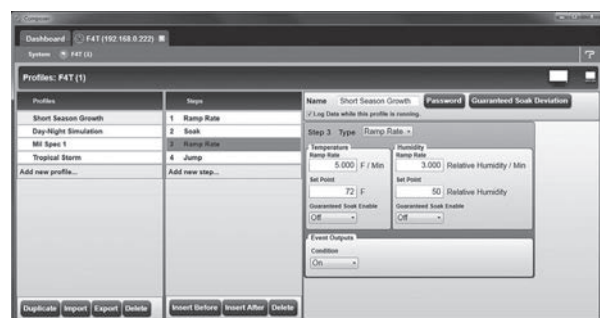
Minimum System Requirements

- Microprocessor: 1 gigahertz (GHz) or faster 32-bit or 64-bit
- Memory: 1 gigabyte (GB) RAM (32-bit) or 2 GB RAM (64-bit)
- Disk space: 250 megabytes (MB)
- Video: 1280 x 720 or higher
- Port for controller communications: Ethernet for F4T or EIA-485 half duplex (2-wire) for EZ-ZONE RM

Illustrations from COMPOSER for F4T



Pluggable modules view simplifies configuration by showing hardware present.



Profile editor speeds up creating and editing profiles.

EZ-ZONE® Configurator

EZ-ZONE® Configurator software allows Watlow® EZ-ZONE products to be configured in one simple process. Its interface is flexible and easier to read than the basic remote user interface (RUI). It operates without requiring purchase of communications options as it uses the standard bus communications protocol that is included with all EZ-ZONE products.

The EZ-ZONE Configurator software is available as a free download at www.watlow.com.

Features and Benefits

Communicates with EZ-ZONE products via standard bus protocol

- Works regardless of which communications option is purchased or even when no communication option is purchased

Detects EZ-ZONE devices and reads up configuration

- Allows easy access to any setting

Presents pages and menus as they are in the controller's display, RUI and manuals

- Enables the user to easily locate what they are looking for

Wizard-style editor with menu explorer

- Allows for easy examination of each menu
- Enables the user to skip directly to the parameters they want to work with

On-screen parameter help

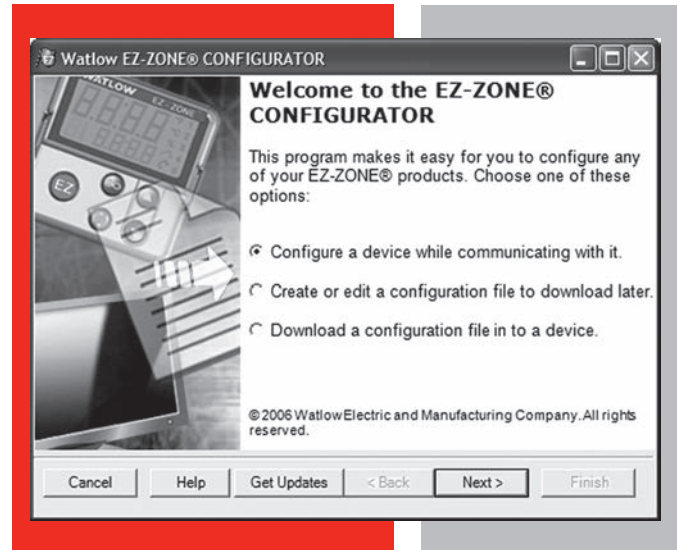
- Reduces configuration errors
- Helps the user take full advantage of available features

Copies parameter settings

- Decreases configuration time especially for multi-loop controllers

Saves configuration files on the computer with all the information required to set up a controller

- Preserves settings to archive and recover or simplify setting up of another EZ-ZONE product
- Enables set up files to be emailed or accessed by users on a network or via the Internet



View or modify configuration files saved during online editing sessions

- Allows users to get a headstart on setting up EZ-ZONE products
- Aids in supporting remote users

Downloads saved configuration files

- Simplifies setting up EZ-ZONE products

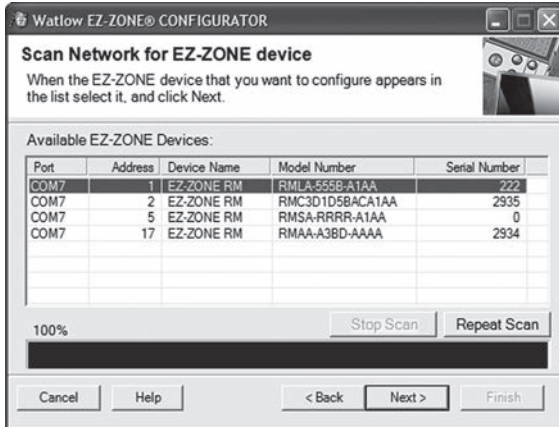
Flexible and smart compatibility checking

- Ensures configuration files are only loaded in to devices with compatible hardware

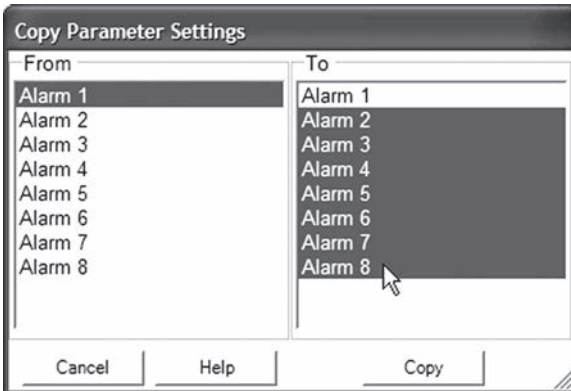
EZ-ZONE Configurator

Technical Data

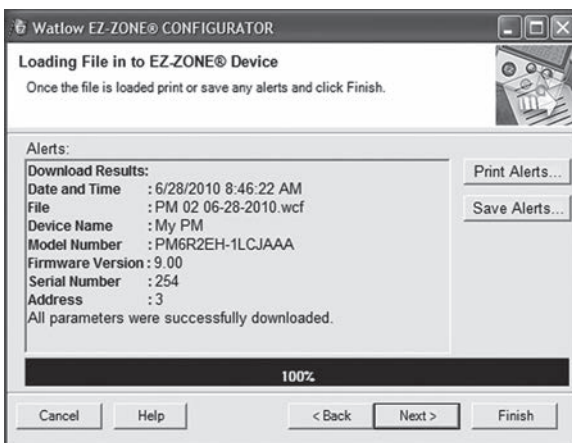
Illustrated Features



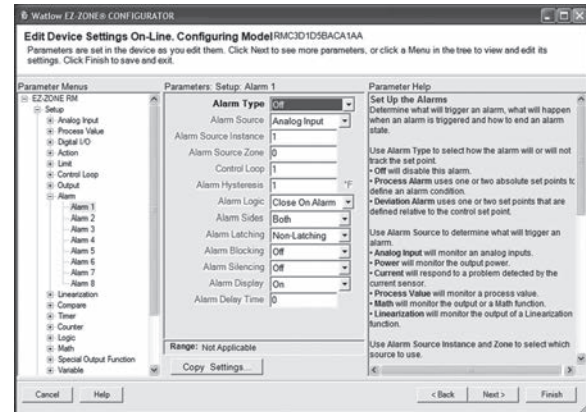
Detects EZ-ZONE devices connected to the computer's communications ports.



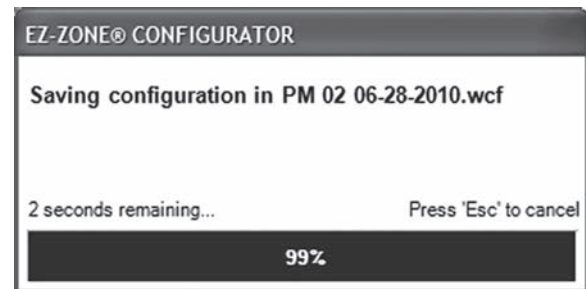
Copy feature speeds up configuration.



Confirms that parameter downloads were successful and reports exceptions.



Menu explorer allows users to skip directly to desired parameter or browse each setting.



Saves complete sets of parameter settings for backup, archiving or configuring other devices with the same settings.

Compatibility

EZ-ZONE Configurator software can be used to configure EZ-ZONE products when run on a computer connected to the EZ-ZONE product's standard bus port (EIA-485 also known as RS-485). For most computers a 485 converter is required.

System Requirements

Minimum Requirements

- 485 communications port: USB port and USB-to-485 converter, or serial COM port (232) and 232-to-485 converter
- Microprocessor: Pentium® IV or equivalent
- Memory: 128 MB RAM (256 MB recommended)
- Disk space: 140 MB (100 MB if Microsoft.NET Framework is already installed.)
- Video: 800 x 600 (1024 x 768 or higher recommended)

Operating System Requirements

- Windows® 8
- Windows® 7

EZ-ZONE LabVIEW™ Driver

This instrument driver for National Instruments' LabVIEW™ software communicates with Watlow's EZ-ZONE products via the standard bus communications protocol that is included with all EZ-ZONE products.

The LabVIEW™ instrument driver software package, created with LabVIEW™, simplifies development of applications such as test software. These instrument drivers include software functions called LabVIEW™ Virtual Instruments (VIs) that are used with LabVIEW™ to communicate with Watlow products such as the EZ-ZONE PM.

The EZ-ZONE LabVIEW™ instrument driver software is available as a free download from www.watlow.com.

Features and Benefits

Supports access to all EZ-ZONE parameters

- Makes it easy for LabVIEW™ users to use EZ-ZONE products with their programs

Compatible with any EZ-ZONE product configured to communicate via standard bus

- Reduces cost by eliminating the need to purchase optional communications protocols

Features Initialize, Read, Write and Close VIs

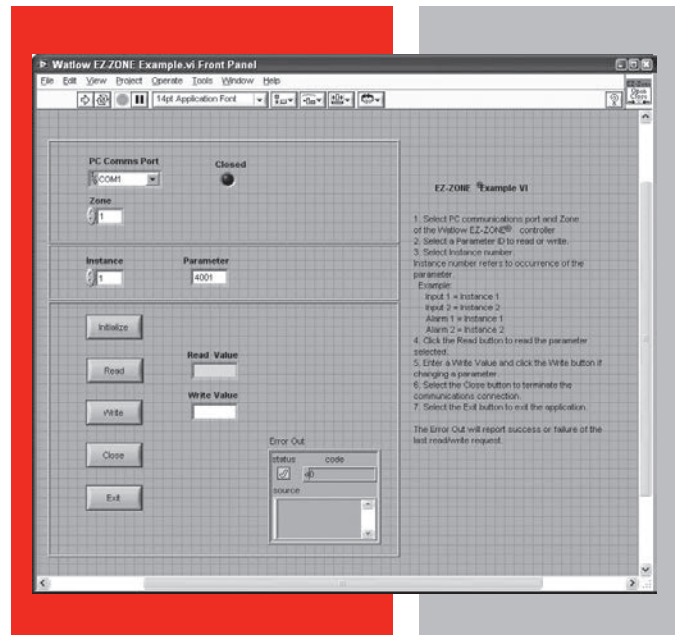
- Speeds development of LabVIEW™ applications

Includes a working example with detailed instructions

- Shortens the learning curve associated with applying a new instrument

Compatibility

The Watlow EZ-ZONE instrument driver is supported by LabVIEW™ versions 8.6 and later.



EZ-ZONE GSD Editor

The EZ-ZONE GSD Editor software allows users to create custom general station description (GSD) files for configuring communications between EZ-ZONE products and other automation equipment supporting the PROFIBUS DP communications protocol.

The EZ-ZONE GSD software is available for download free of charge at www.watlow.com and on the Controller Support Tools DVD-ROM (part number 0601-0001-0000) included with the related Watlow controllers.

Features and Benefits

Creates and edits GSD files

- Enables configuration of DP-V0 (cyclic) communication between EZ-ZONE devices and a PROFIBUS DP master such as a programmable logic controller (PLC)

Allows users to select just the values they need

- Optimizes PLC memory use by allowing cyclical messages to be configured with desired data only
- Speeds up network by eliminating the transmission of unnecessary data as with fixed, vendor-supplied GSD files

Supports EZ-ZONE PM, RM Access Modules and RUI Gateways

- Makes it easy for PROFIBUS DP users to use EZ-ZONE products in their applications

Presents all the parameters found in supported EZ-ZONE device's menus

- Maximizes flexibility in the design of applications

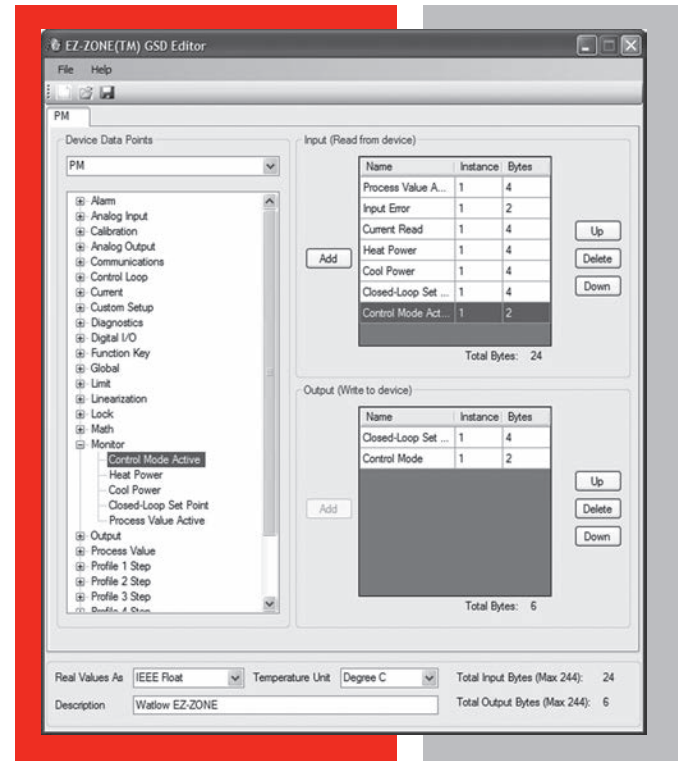
System Requirements

System Requirements:

- Microprocessor: Pentium® IV or equivalent
- Memory: 128 MB RAM (256 MB recommended)
- Disk space: 140 MB (100 MB if Microsoft.NET Framework is already installed.)
- Video: 1024 x 768 or higher
- Microsoft® compatible pointing device (mouse or trackball)

Operating System Recommended:

- Windows® 8
- Windows® 7



Compatibility

EZ-ZONE GSD Editor software can be used to create and edit GSD files for EZ-ZONE PM controllers with the PROFIBUS DP field communications option and EZ-ZONE ST and PM controllers and RM control systems when connected to an EZ-ZONE RM access module or EZ-ZONE RUI gateway with the PROFIBUS DP option.

Software

EHG® SL10 Software

The EHG® SL10 software allows the user to configure, monitor, log and chart data from Watlow's EHG SL10 integrated multi-function controllers. It provides an easy-to-use and centralized interface for multiple EHG SL10 controllers.

This software gives the user the ability to change set points, label devices and much more all with the click of a key.

The EHG SL10 software is available for download free of charge at www.watlow.com and on the Controller Support Tools DVD-ROM (part number 0601-0001-0000) included with the related Watlow controllers.

Features and Benefits

Automatic network detection and configuration

- Simplifies configuring multi-device networks by setting unique addresses in each device as they are added to the network
- Scans for new controllers added to the network

Manual network configuration

- Connects to and monitors existing controller networks

User definable device names

- Speeds up troubleshooting by allowing users to set names for networked controllers that correlate them with heater locations

Monitor mode

- Displays temperature, and color coded alarms and warnings for all networked controllers
- Centralizes monitor function and eliminates time spent checking alarm states at the heater

Network state indicator

- Simplifies and reduces errors when controlling many points
- Shows at a glance if any controller has a warning or alarm condition

Charting

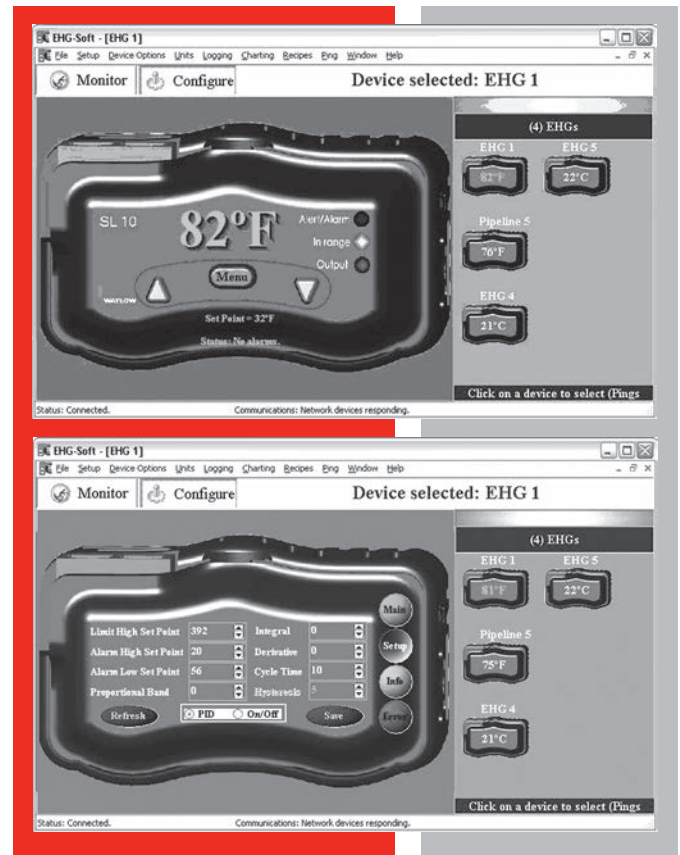
- Improves system operation by allowing engineers and operators to see zone temperature trends in real time

Data logging

- Saves time and effort by eliminating the need to manually record temperatures
- Simplifies troubleshooting by providing a record of zone temperatures

Configure mode

- Simplifies and speeds up changing set points and other control parameters



Password protected setup

- Prevents unauthorized changes to alarm set points, tuning and control settings

Recipe manager

- Speeds up commissioning new devices by allowing saved recipes to be downloaded to multiple controllers
- Reduces data entry errors by saving known good settings

Ping function blinks indicator on selected controller

- Reduces errors by allowing technicians to confirm device identities

Compatibility

EHG SL10 software can be used to configure EHG SL10 controllers when run on a computer connected to the controllers via an EIA-485 (also known as RS-485) network. For most computers a 485 converter is required.

System Requirements

Operating System

- Windows® XP Professional

SpecView HMI Software

SpecView software from Watlow® is an easy-to-use Human Machine Interface (HMI) to Watlow controllers, including the F4T with INTUITION process controller and EZ-ZONE controllers as well as third-party products. Watlow's single point of support for hardware, software and application needs ensures knowledgeable and expedient responses to questions or concerns.

This competitively priced package includes field-proven features, many suggested by loyal users. Built-in support and auto-detect for Watlow controllers make setup quick and simple. SpecView from Watlow is ideal for industrial applications with support for barcode readers and touch-screen operation.

To try before purchasing, download SpecView from the Watlow website and run in the time-limited demo mode.

Features and Benefits

Built-in support and auto-detect for controllers

- Saves set-up time
- Eliminates the need to learn communications protocols
- Integrates devices from multiple vendors

Watlow EZ-ZONE standard bus communications protocol

- Communicates with any EZ-ZONE product without requiring purchase of a communications option

Highly configurable trending/graphing

- Simplifies monitoring and troubleshooting processes and machines
- Provides a permanent, unalterable record of results

Flexible data logging and report generator

- Helps users comply with regulatory requirements including AMS 2750D NADCAP
- Reduces labor and increases accuracy by automating data collection
- Simplifies record keeping by consolidating measurements, operator comments and other information into Excel® - compatible report formats
- Allows data to be grouped in user-defined batches
- Records operator actions



Easy-to-build, customizable screens

- Allows creation of application-specific screens, which can automate tasks, decrease training time and simplify monitoring and operation
- Highlights specific parameter values with user-set color dynamics and provides bar graphs for "at-a-glance" monitoring
- Limits access with passwords if desired

Easy-to-use recipe manager

- Saves snapshot of current parameter settings
- Eliminates operator error when setting machine parameters
- Reviews and edits complex programmer profiles

Historical replay option

- Helps troubleshoot processes by allowing review of recorded data

Remote access option

- Allows multiple, identical operator stations for convenient access
- Reduces downtime and increases utilization with monitoring and access over LAN, modem or Internet

For detailed product and ordering information, see the full SpecView HMI Software product section located on pages 385 through 389.

Software

EZwarePlus

The Silver Series EM programming software, EZwarePlus, is easy to use and features a large variety of built-in screen objects that make it powerful. When creating screens, the user can call upon extensive graphics libraries, import custom graphics and add numeric displays, entry fields, analog meters, bar graphs and trend graphs with just a few mouse clicks. Screen objects are highly customizable, and the user can create libraries of their own objects for repeat use. The online simulator, Ethernet and USB support, make testing and downloading fast.

The EZwarePlus software suite is available for download free of charge at www.watlow.com and on the Controller Support Tools DVD-ROM (part number 0601-0001-0000) included with the related Watlow controllers.

Features and Benefits

Powerful, easy-to-use EZwarePlus programming software

- Requires only a small investment in time to create a useful interface
- Provides the ability to learn additional features as needed
- Provides advanced interface features such as animation and pop-up windows
- Reduces development time by providing extensive graphical libraries and facilitating reuse with user-created libraries

Offline and online simulation

- Speeds up development by making it faster and easier to test projects
- Allows faster creation of fine-tuned interfaces by speeding up iterations

Upload and download password protection

- Prevents users from altering projects
- Protects projects in OITs from accidental overwrite

Extensive graphical libraries and user-created libraries

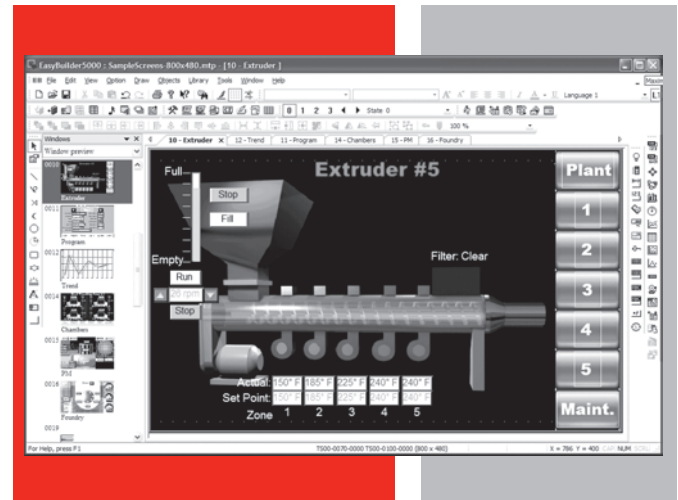
- Reduces development time and facilitates reuse
- Simplifies development by allowing import of common graphic formats: bitmaps, JPEGs and animated GIFs

Project manager

- Simplifies managing projects for multiple applications

Project compress/uncompress

- Archives all necessary files in one compressed file
- Allows a single file to be saved or delivered as the project source



User-programmable macros with math functions and support for floating point

- Extends functionality
- Automates processes

TrueType fonts with Unicode (international) characters and language switching feature

- Makes screen content easy to read by allowing formatting such as bold, italics, underline, scrolling and blinking
- Prevents errors by communicating with users in their native languages
- Reduces development and support by allowing inclusion of up to 24 user-selectable languages in a project

Tag library and address find and replace function

- Simplifies project reuse with similar but not identical controllers

Label library

- Speeds up screen development by eliminating the need to enter the same text multiple times
- Enables on-the-fly language changes for up to 24 languages per project

Library import and export functions

- Reduces errors and speeds up development by eliminating tedious data entry when multiple projects interface with the same devices

Layers, grid, alignment, nudge, space-even and make-same-size tools

- Speeds up creation of smart looking screens by automatically placing objects aligned on the screen
- Gives user precise control over object placement

Software

EZwarePlus

Software Suite

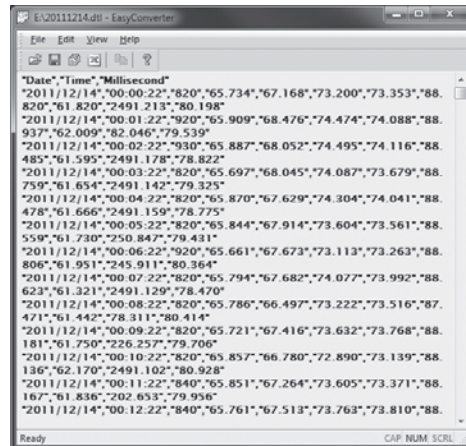
The EZwarePlus software suite includes EasyConverter, EZwarePlus screen editor, Utility Manager and Recipe Editor programs.



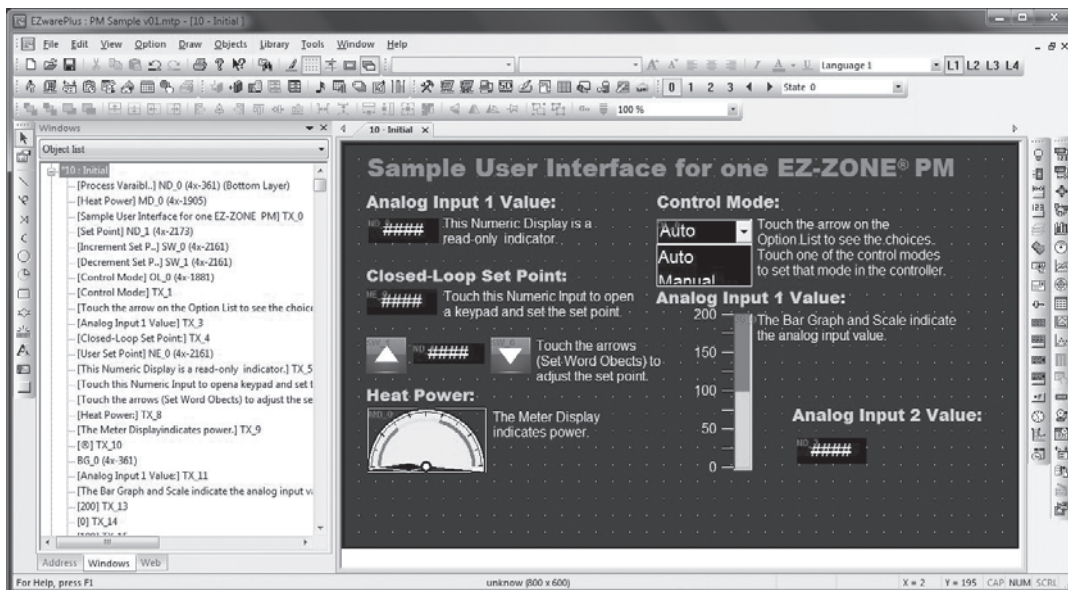
Utility Manager uploads and downloads projects to and from the Silver Series EM OIT, opens compiled projects in simulation and launches the other EZwarePlus programs.

ID	ADDRESS	Recipe Name	Set Point 1	High Process Alarm 1	Set Point 2	High Process Alarm 2	Cap
0	0	Standard Process	450.5	500	487	525	
1	19	Spec for Alpha Lab	235	250	215	250	
2	38	Mil Specification	425.1	450	375	425	
3	57	FDA Test	140.3	175	150.7	180	
4	76	CE Test	50	65	75	100	

The Recipe Editor configures memory files for use with Silver Series EM OITs and allows offline creation of recipes.



EasyConverter converts log files saved by the Silver Series EM OIT to file formats used by popular Windows® software such as Microsoft® Excel®.



EZwarePlus provides a graphical screen designing environment with point-and-click access to features and drag-and-drop ease.

Compatibility

EZwarePlus software can be used to configure Silver Series EM operator interface terminals as interfaces for Watlow EZ-ZONE controllers and other automation devices.

Note: EZware-5000 is still available for programming older Silver Series OITs.

System Requirements

Operating System

- Windows® 10, 8.1, 8, 7, Vista or XP

WATVIEW™ HMI Software

Note: WATVIEW™ is not compatible with Windows® Vista or Windows® 7 and does not support Watlow EZ-ZONE controllers. Please consider SpecView for your HMI software needs.

WATVIEW is Watlow's Human/Machine Interface (HMI) software for older Watlow controllers. WATVIEW features easy controller setup, recipe and alarm managers, data-logging and trend plot graphing.

WATVIEW is available in three editions:

- **Run-Time Edition**—for operating controllers
- **Developer Edition**—creates custom screens
- **Configurator Edition**—available free of charge for setting up controllers at www.watlow.com

Features and Benefits

Easy program setup

- Scans all available communications ports and baud rates for supported controllers
- Detects which controllers are connected to the computer
- Automatically configures with appropriate setup screens and help files for detected controllers

Controller specific setup and spreadsheet overview screens

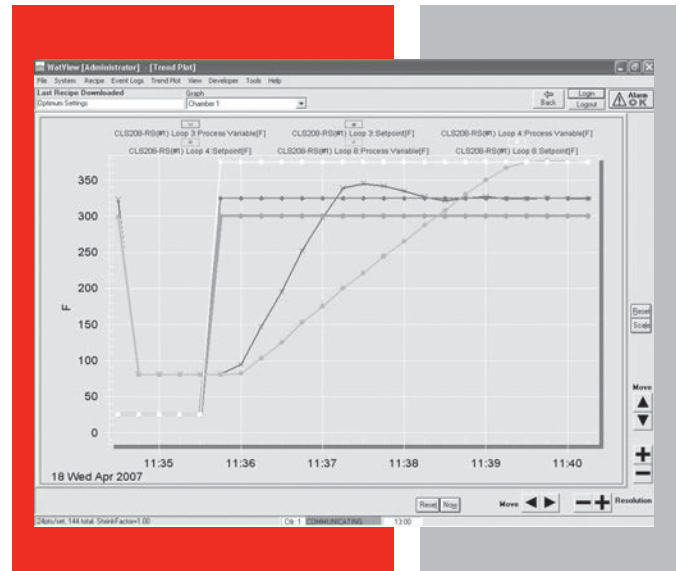
- Simplify monitoring and adjusting controller parameters
- Display settings for multiple channels and controllers
- Present parameters according to controller's menus

Recipe manager

- Stores commonly used controller settings
- Speeds up repetitive controller setups
- Backs up "snapshot" of your settings against data loss

Calendar-start function

- Automates processes by downloading recipes automatically in a one-time or repeating schedule



Alarm manager

- Makes alarms easier to understand with customizable, plain text messages
- Aids in troubleshooting by time stamping and logging alarms
- Streamlines alarm management by allowing monitoring, acknowledging and clearing alarms for multiple controllers

Data-logging and trend plot graphs

- Reduce labor and increase accuracy by automating data collection for the parameters you choose
- Save time by exporting data to Excel®-compatible spreadsheet files
- Simplify process adjustments and troubleshooting by graphing up to 20 data items together on a graph
- Provide flexibility by allowing users to name, save and choose for display from any number of graphs

For detailed product and ordering information, see the full WATVIEW HMI Software product section located on pages 391 through 392.

