

WATLOW®

Process Controller



**1/4 DIN
controller**

**touch-screen
technology**

**with
COMPOSER®
software**



**WITH
INTUITION®**

WATLOW®

Touch-Screen Technology Easy to Use



- > 4.3-inch color, graphical touch panel
- > Modular and scalable controller
- > Integrated functions
- > Screen personalization
- > Graphical programming PC software
- > Multi-language options
- > Intuitive navigation
- > Channels, profiles, alarms, inputs and outputs can all be personalized with user-defined names

Integrated Functions Lower Ownership Costs



- > Simplified design reduces complexity
- > Less inventory
- > Reduces supplier base and simplifies delivery
- > Saves wiring time and panel space
- > The F4T all-in-one capabilities include: integrated PID controller, data logger, limit controller, solid state relays, timers, counters, PLC math and logic, panel switches and lights (softkeys)

All the
functionality
of multiple
devices...
in a single
controller.

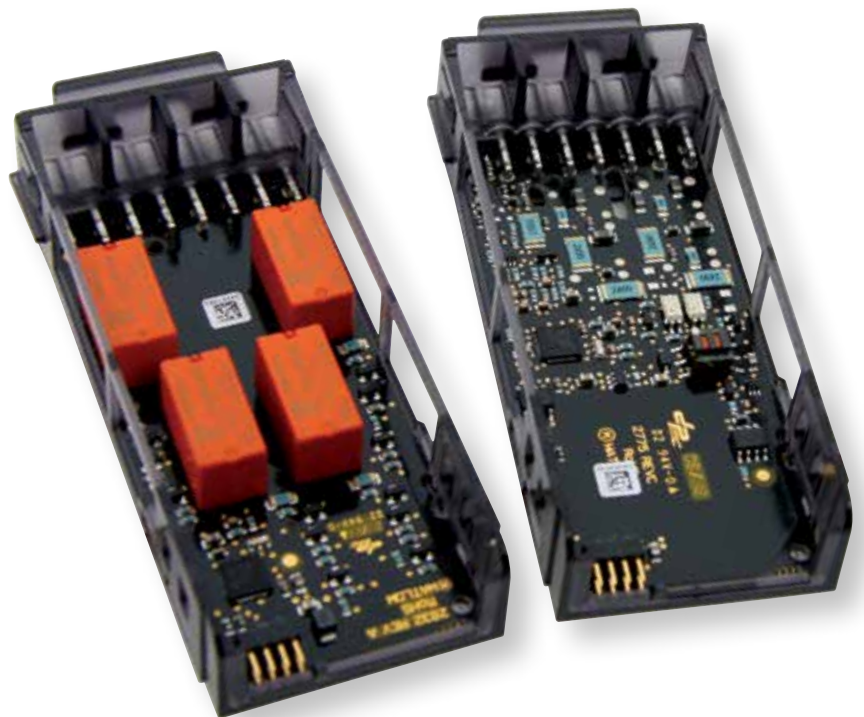


WATLOW®

Supports Fast and Flexible Design Environments



- > Field pluggable I/O, scalable in increments of one
- > Programmable function blocks
- > Wide library of hardware options for flexibility
- > Support of custom firmware modifications
- > High and low voltage power supply options
- > Mounting options for thru-panel or flush mount



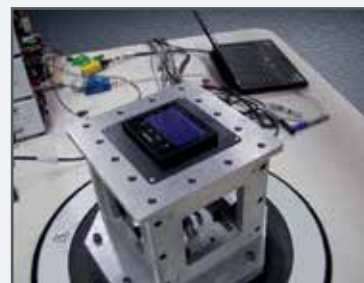
High Quality and Reliability

- > Field-hardened electronics and robust algorithms already deployed in hundreds of thousands of installations worldwide
- > NEMA 4X/IP65
- > Agency compliance: UL®, FM, CE, RoHS, W.E.E.E.
- > 0 to 122°F / -18 to 50°C ambient operating temperature

High performance validated with stringent testing



Water test

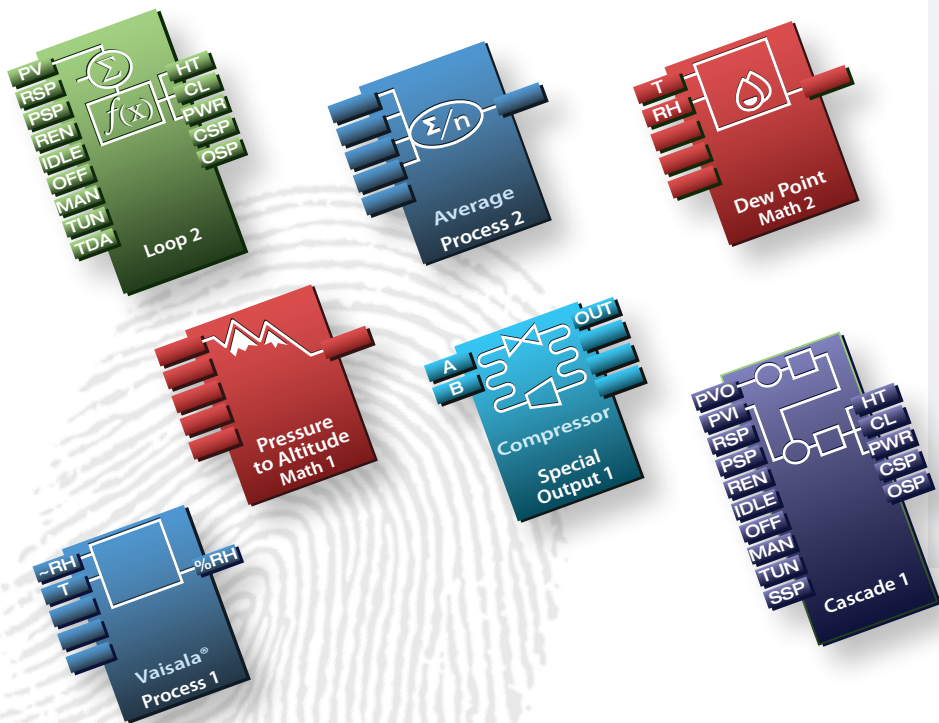


Vibration test



WATLOW®

Improved Process Control



- > Robust algorithms for temperature, RH, pressure, altitude and more
- > TRU-TUNE®+ adaptive control algorithm
- > 40 profiles up to 50 steps each, with battery backup and real-time clock
- > Up to 4 PID control channels
- > Monitor up to 24 sensor inputs
- > Math and logic for total process and machine control

Easy Connectivity and Data Mobility with File Transfers

- > Ethernet Modbus® TCP and SCPI
- > Two USB host ports
- > USB device port
- > 232/485 Modbus® RTU
- > USB port for serial communication access
- > LabVIEW™ driver and SCPI protocol



Colorful Accent Bars Sophisticated Appearance



> Accent bar with three color options

Easily Retrofit with Minimum Disruption

- > Fits in existing SERIES F4 panel cutout
- > SERIES F4S / F4D / F4P backward compatible Modbus® registers

F4T fits easily
in F4 cutout

F4T installed
in F4 cutout

Original F4
controller





Find out more about Watlow and how we can provide thermal solutions for your company:

Phone: 1-800-WATLOW2 (1-800-928-5692)

E-mail: inquiry@watlow.com

Web site: www.watlow.com

About Watlow

Watlow designs and manufactures industrial heaters, temperature sensors, controllers and supporting software as well as assemblies – all of the components of a thermal system. The company partners with its customers to optimize thermal performance, decrease design time and improve efficiency of their products and applications.

Watlow brings its experience to numerous industries, including semiconductor processing, environmental chambers, energy processes, diesel emissions, medical and foodservice equipment.

Since 1922, Watlow has grown in product capability, market experience and global reach. The company holds more than 450 patents and employs 2,000 employees working in nine manufacturing facilities and three technology centers in the United States, Mexico, Europe and Asia. Watlow also has sales offices in 16 countries around the world. The company continues to grow, while the commitment remains the same – to provide its customers with superior products and services for their individual needs.

Watlow Products and Technical Support Delivered Worldwide

North American Technical Support & Sales Offices

United States & Canada 1-800-WATLOW2
(1-800-928-5692)

Asian Technical Support & Sales Offices

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China	+86 21 3532 8532
India	+91 40 6661 2700
Japan	+81 3 3518 6630
Korea	+82 2 2169 2600
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Singapore	+65 6773 9488
Taiwan	+886 7 288 5168

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United Kingdom	+44 (0) 115 964 0777

Latin American Technical Support & Sales Office

Mexico	+52 442 256 2200
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including "how-to" videos.

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LabVIEW™ is a trademark of National Instruments Corporation.

UL® is a registered trademark of Underwriter's Laboratories, Inc.

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