WT4000 AC

Flexible Format Control with Advanced Capabilities

The WTC Series 4000 resistance weld control is unsurpassed in its flexibility and simplicity for a powerful control system.

Quality welds with repeatable performance is made possible with the control tools made available by the Series 4000 control.

- Current Regulation & Voltage Control Mode - within one Weld
- Multi-Language Programming (English & Alternate)
- Total I/O Programmability
- Local Safety I/O Embedded
- Free Format Programming for Various Applications
- Network Ready using WebView for Weld Data Collection
- Various I/O Connectivity such as DIO, Device Net, ProfiBus
- Weld Tool Efficiency Monitoring (C-Factor)
- Weld Transformer Protection (Delayed Firing Prevents Saturation)
- Dynamic Squeeze Functions
- Wait for Line Voltage—Asynchronous Load Scheduling
- Laptop or DEP Interface for Programming and Data Acquisition
- Analog Interface Port for Controlling Welding Force
- Large Repertoire of Inputs & Outputs
- 380 - 480 - 600 VAC 50/60hz
- Modular Design for Ease of Maintenance

Supported Languages
English, French, Spanish, Portuguese

IN STOCK at T. J. SNOW
A PREMIER AUTHORIZED DISTRIBUTOR FOR WTC

T. J. SNOW HELPING CUSTOMERS SUCCEED IN RESISTANCE WELDING FOR 50 YEARS
WT4000 AC Welding Control

**WT4000 AC Portable Weld Station**

- 400 Amp, 2 Pole Circuit Breaker with Magnetic and External Shunt Trip
- Single Operator - Two Welding Guns
- Operator Panel with Tip Dress and Cap Change Control Buttons
- 265KVA, 200KVA, 160KVA Weld Transformer - 380-480-600VAC 50/60Hz Mains (choose one of 9 Selections)
- Integrated 4000 Processor Module
- Dimensions (116H x 100W x 86D (mm)) - 250Kg
- Network - MedLAN to WebVIEW
- Tip Dress Management Interface
- Pneumatic Panel - with Proportional Valve Control
- Six discrete Air Valves
- Water flow valve with electronic flow monitor (optional)

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**Programming Interfaces**

These devices are used to interface the user to the WT4000 weld control for programming parameters and reviewing welding data.

- DEP 100
- DEP 300
- WebVIEW

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WT4000 Configurable Designs

Programmable DIO Module “821”
16 Inputs / 10 Outputs with each point configurable by programming

Welding Control Module “822”
Completely programmable for various resistance welding tasks

Serial Interface Module “823”
Allows quick I/O interface for Device Net or Profinet

Analog Ports Available
Complimentary Analog I/O
Output: 4 - 20 mA (+I Loop, -I Loop)
Input: 0 - 10V (+Vout, -Vout)

There are other variations of circuit boards to produce the WT4000 control including compact 24V DIO and new enhanced processor modules.

All WTC welding controls are network ready.

The WT4000 Series control uses a simple RS485 MedLAN network that daisy chains up to 30 controls on one channel. The information from these controls can be brought to the plant’s Ethernet network by means of a WebVIEW Gateway.

The WebVIEW Gateway is available in Single, Dual, and Quad Channel Configurations.
**WT4000 Connectivity**

- Analog Interface Ports
- Local I/O Port
- DIO, Device-Net or ProfiBus
- Serial RS485 Port
- Local Programming Port

### Power Source

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<tr>
<td><strong>Voltage:</strong></td>
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<tr>
<td><strong>Line Power Frequency:</strong></td>
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<td><strong>Device Type:</strong></td>
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<td><strong>Power Consumption:</strong></td>
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### Processor

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<tr>
<td><strong>Weld Processor:</strong></td>
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<tr>
<td><strong>I/O Protocol:</strong></td>
</tr>
<tr>
<td><strong>Number of weld schedules:</strong></td>
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<tr>
<td><strong>Number of steppers:</strong></td>
</tr>
<tr>
<td><strong>Processor Storage Type:</strong></td>
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<td><strong>Weld Processor Languages:</strong></td>
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### Firing modes

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<tr>
<td><strong>Primary Constant Current</strong></td>
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<tr>
<td><strong>Automatic Voltage Control</strong></td>
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### Primary Current Range

- **Primary Current Range:** 20A to Rated Current Level
- **Primary Current Accuracy:** ± 1% Setting, ± .5% Repeatability

### Machine Monitoring Functions

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<td><strong>Analog Input Window Functions</strong></td>
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<td><strong>Programmable Input Wait / Extend Functions</strong></td>
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<td><strong>C-Factor Monitoring and Limit Functions</strong></td>
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### WT2000 Option

For stand alone welding equipment, the WT2000 resistance weld control eliminates the need for a separate, costly weld monitor. The WT2200 provides both ease of use and ensures quality, repeatable welds. Its flexibility is unsurpassed in its category. Fixed welding schedules are

**Single glance view of all weld functions while monitoring current, voltage, and power factor feedback from the illuminated 2 line, 40 character display. The WT2000 uses the same base control boards as the WT4000.**

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