

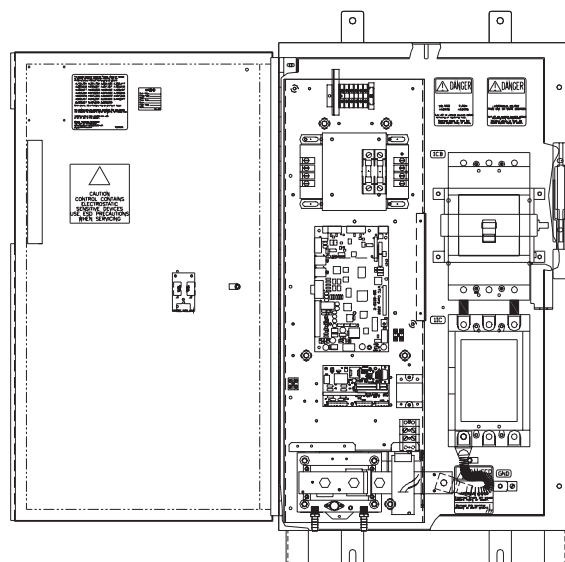
# MedWeld WT4000 AC

## Flexible Format Control with Advanced Capabilities



The MedWeld WT4000 AC 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 MedWeld WT4000 AC control.

- Current regulation and voltage control mode (within one weld)
- Multi-language programming (English, French, Spanish, Portuguese - specific to weld tool applications)
- 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 (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 and outputs
- 220V - 600V ( $\pm 10\%$ ) - 50/60Hz mains
- Modular design for ease of maintenance



**Contact your WSI Representative TODAY!**

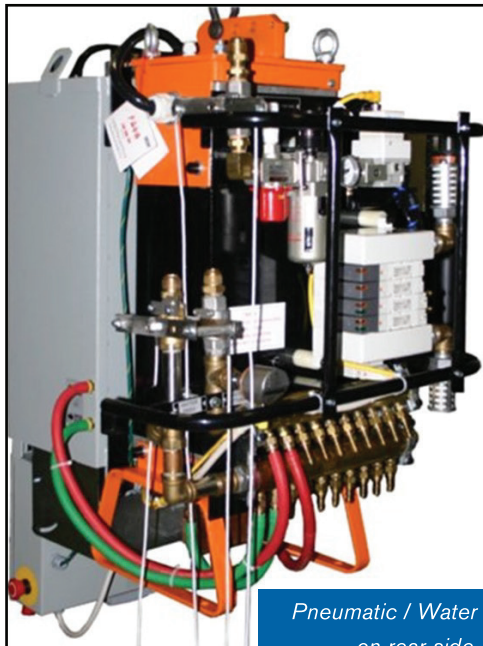
**844-WSI-WELD**

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# MedWeld WT4000 AC Welding Control

## 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 - 220-600VAC 50/60Hz Mains (choose one of 9 Selections)
- Integrated MedWeld 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)



Pneumatic / Water Panel  
on rear side



WCU / Operator Panel  
on front side

## Programming Interfaces

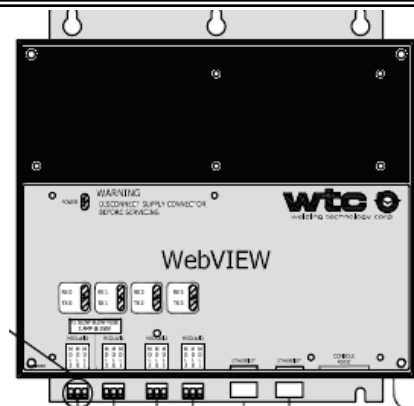


DEP 100



DEP 300

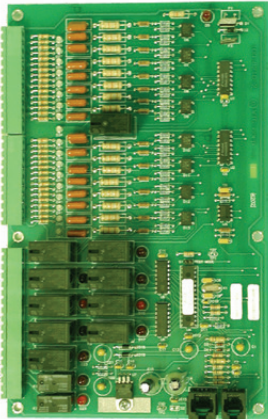
These devices are used to interface the user to the MedWeld 4000 weld control for programming parameters and reviewing welding data.



WebVIEW

# MedWeld WT4000 AC Configurable Designs

## Modules 821, 822 and 823



### Programmable Discrete I/O Module "821"

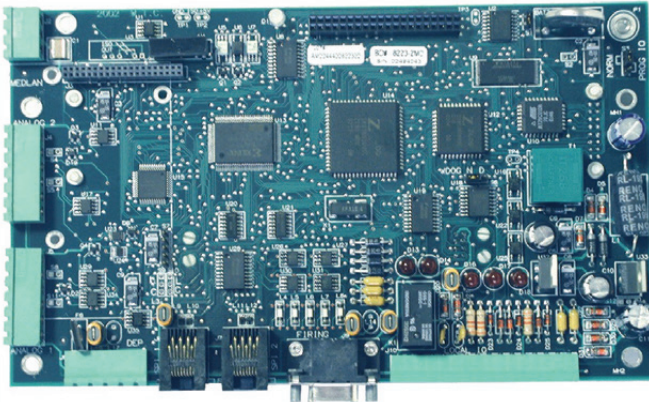
16 Inputs / 10 Outputs with each point configurable by programming

#### Analog Ports Available

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

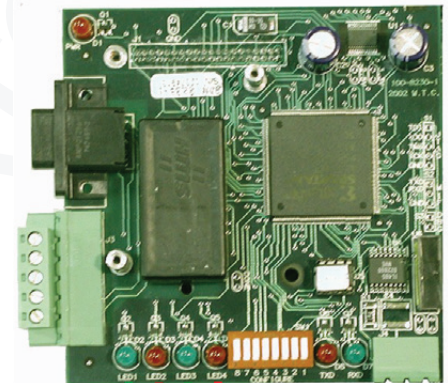
### Welding Control Module "822"

Completely programmable for various resistance welding tasks



### Serial Interface Module "823"

Allows quick I/O interface for  
Device Net or ProfiBUS



ProfiBus Port

Device Net Port

DNet / Profibus Diagnostic LEDs

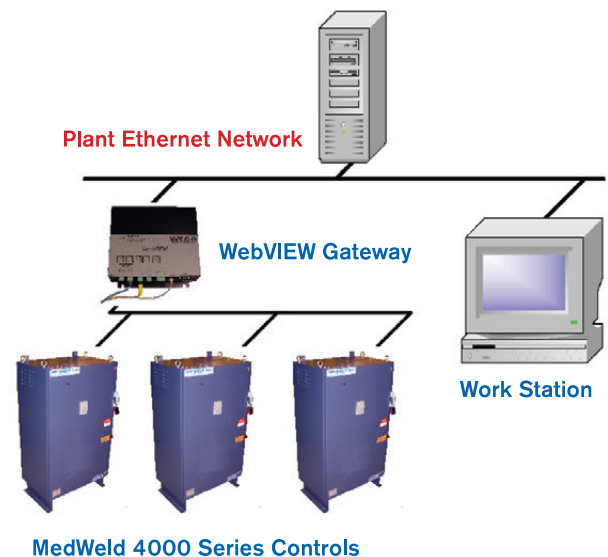
Configuration Switches

There are other variations of circuit boards to produce the MedWeld 4000 control including compact 24V DIO and new enhanced processor modules.

## All WTC welding controls are network ready.

The MedWeld 4000 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.





# MedWeld WT4000 AC Connectivity

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

## Optional Devices:

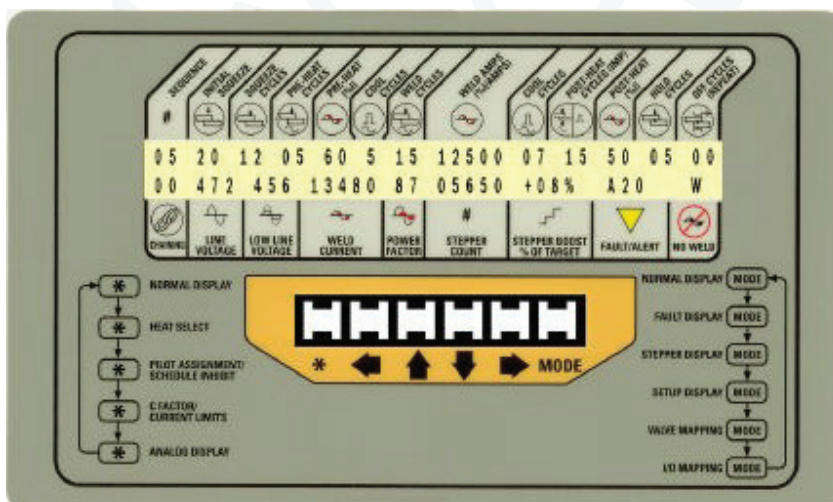
Data Entry Panels (DEP100,300)  
Weld Interface Laptop Software  
WebVIEW  
Weld / RAFT Gateway Network Software

## MedWeld 4000 Welding Applications:

Systems Integrator Kit Configurations  
Portable Gun Station Controls  
Seam Welding  
Robotic Welding  
Projection Welding

Power Source	
Voltage:	Single Phase AC 220V - 600V (± 10%)
Line Power Frequency:	50/60Hz (Automatic Selection)
Device Type:	SCR
Power Consumption:	70VA (Idling Condition)
Processor	
Weld Processor:	MedWeld 4000 Integrated
I/O Protocol:	Device Net, DIO, or PROFIBUS
Number of weld schedules:	Up to 63 - varies by user application
Number of steppers:	Up to 32 - varies by user application
Processor Storage Type:	RAM ( Battery Required)
Weld Processor Languages:	English with some options for one alternate French, Spanish, Portuguese
Monitoring and Control Functions	
Firing modes:	Primary Constant Current Automatic Voltage Control
Primary Current Range:	20A to Rated Current Level
Primary Current Accuracy:	± 1% Setting, ± .5% Repeatability
Machine Monitoring Functions:	Analog Input Window Functions Programmable Input Wait / Extend Functions Dynamic Weld Gun Squeezing Functions Wait for Line Voltage Functions C-Factor Monitoring and Limit Functions

# MedWeld 2200 Option



MedWeld 2200 Weld Control

For stand alone welding equipment, the MedWeld 2200 resistance weld control eliminates the need for a separate, costly weld monitor. The MedWeld 2200 provides both ease of use and ensures quality, repeatable welds. Its flexibility is unsurpassed in its category.

*Single glance view of all weld functions while monitoring current, voltage, and power factor feedback from the illuminated 2 line, 40 character display. The MedWeld 2200 uses the same base control boards as the MedWeld 4000.*

# Resistance Welding. SOLVED!

Weld Systems Integrators (WSI) specializes in high-quality spot and projection resistance welders with single-phase AC and CD, and three-phase DC and MFDC power supplies. Our standard and custom welders include:

- Rocker Arm Spot Welders
- Capacitor Discharge Welder
- Seam Welders
- XY Welders
- Manual, Partial, or Fully-Automated Multi-Gun Weld Automation
- Press Type Welders
- Bench Welders
- Door Welders
- Turntable Welders

We work with trusted partners to stock a diverse inventory of consumables, spare parts and accessories. This includes electrodes, portable spot welding guns, controls, chillers, transformers and more. And we support our equipment with excellent customer service, training, welding lab testing and contract engineering.

TECNADirect.com, a division of WSI, is a stocking master distributor of TECNA welders, tool balancers and accessories. Along with BALANCERSDirect.com, our dedicated to balancers website, we maintain an IN-STOCK inventory at our Warrensville Heights, OHIO location.

Factory direct from our Warrensville Heights, OHIO location, or through our distributor network, Weld Systems Integrators offers exceptional welding machinery equipment with global shipping and quick delivery.



**Contact your WSI Representative TODAY!**



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