



WELD CELL PERFORMANCE MONITORING AND OPTIMIZATION SYSTEM

OPTIMIZE WELD CELL PERFORMANCE & OEE

Weld Central™ is a Process Optimization System that monitors and tracks key (time-stamped) process variables, including current, voltage, wire feed speed, gas flow & feed motor current. This information can be utilized for both process optimization and determining the weld cell **OEE (Overall Equipment Effectiveness)**. Combined with the Wizard View™ software, Weld Central™ is the ultimate weld cell performance monitoring system!



NEW

Weld Central™ Control Box

Includes touch screen interface and built-in memory & storage.

Sensor Module Options

Note: All sensors along with the controller and software are included in the complete kit (WC-1-KIT)



Wire Feed Sensor

Measures wire activity, including feed speed and total wire usage.



Voltage & Current Sensor

Measures arc voltage and amperage from the power source.



Gas Flow Sensor

Measures/monitors volume of gas used as CFH or LPM, gas surges & total gas used (can function as a totalizer). May also be used as a stand alone tool for monitoring gas flow.



Motor Current Sensor

Measures amperage draw on the feeder motor, which is used for detecting wire feeding issues.

Hardware Features

- ▶ Monitor robotic or semi-automatic weld cells through a PC or mobile device using the **Wizard View™** software, where collected data can be viewed, charted & exported in a user friendly web browser interface
- ▶ **Equipment agnostic** - utilizes sensors compatible with all brands of wire feeders and power sources
- ▶ **More than just a data acquisition system** - may be connected to a PLC to prevent costly weld quality issues
- ▶ **Four Active Outputs** that can activate an alarm or stop the welding process through the PLC:
 - **Arc Stability:** Triggered when voltage, amperage, wire feed or gas flow exceed user defined thresholds
 - **Weld Quality:** Triggered when voltage, amperage, wire feed & gas flow meet user-defined limits
 - **Assembly Passed:** Triggered if data from all welds is within weld ID and assembly parameters
 - **Assembly Failed:** Triggered when data does not meet the user-defined parameters for an assembly
- ▶ **Three Active Inputs** for resetting outputs, reset for new wire drum & reset for new gas cylinder (if applicable)
- ▶ Monitor a single torch or multiple torches through a network or mobile router with Wizard View™ software



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WIZARD VIEW™ MONITORING & DATA ACQUISITION SOFTWARE

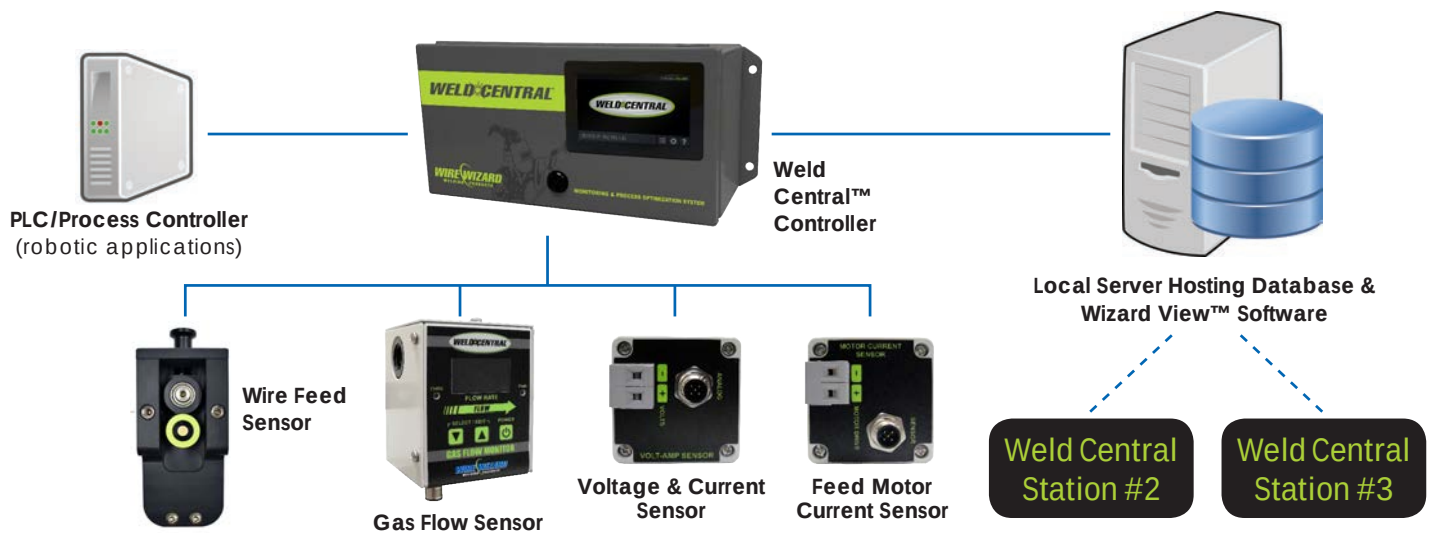
Wizard View™ provides an easy to use interface for the Weld Central™ System that graphs and logs data, alerts, wire & gas usage and other key welding performance information. The software collects data from any torch with the Weld Central™ hardware installed. Simply browse to the desired torch to see a visual representation of the welding data along with the wire and gas usage information.

- ▶ **Monitor, graph and export welding data** to a CSV file
- ▶ Dashboard displays all welding data in interactive charts and shows overview of the total number of welds, wire usage, gas usage, power usage & arc on time for a selected time frame
- ▶ Data displayed for each weld assembly & by weld schedule
- ▶ **Logs and displays user defined alerts** so problems can quickly be detected and resolved
- ▶ Provides much of the data necessary to **determine weld cell OEE** (overall equipment effectiveness)
- ▶ Viewable on computer, tablet or mobile device



Wizard View™ Dashboard (detailed view)

System Architecture



ITEM	PART NO.
Weld Central™ Complete Kit - All hardware, sensors & cables for one torch with Wizard View™ Software	WC-1-KIT
Weld Central™ Controller with Wizard View™ Software Package (required hardware & software)	WC-1-CB
Wire Feed Sensor	WC-1-WS
Voltage & Current Sensor	WC-1-VA
Gas Flow Sensor/Monitor	WC-1-GM
Feed Motor Current Sensor	WC-1-CS
I/O Cable for Connection to PLC/Controller (included in WC-1-KIT)	WC-1-WS-I/O