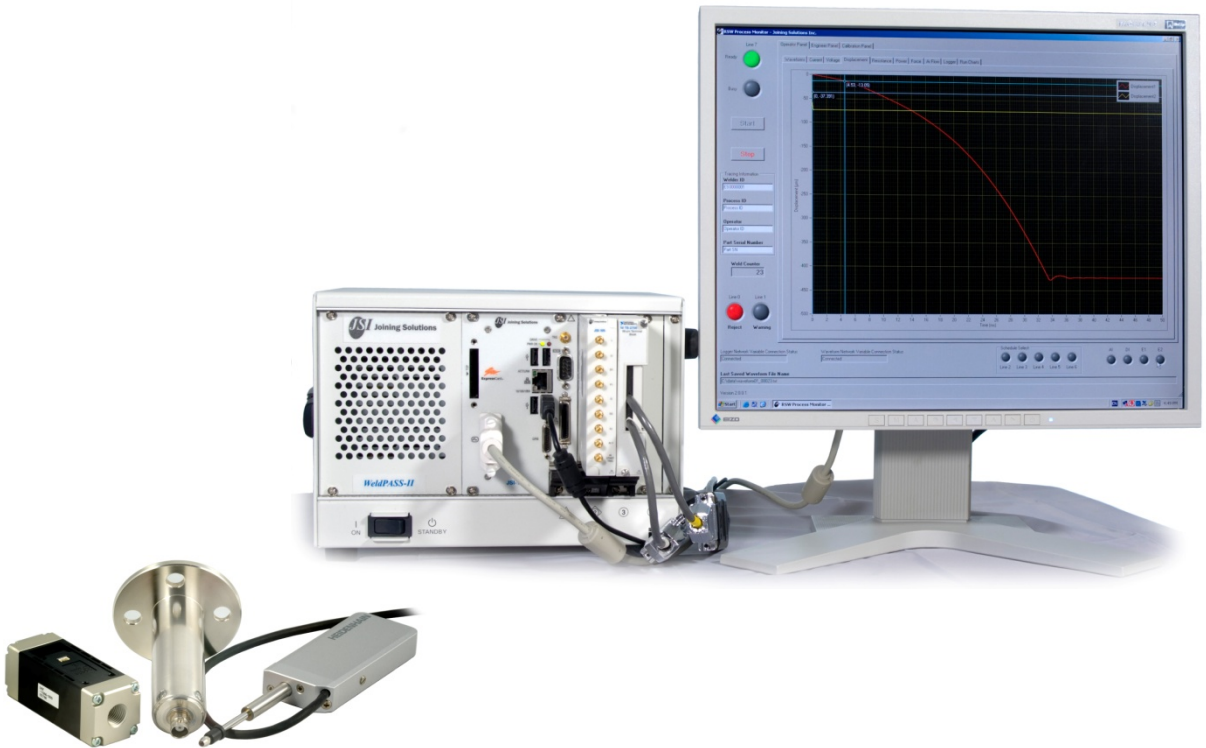# Process Monitoring

WeldPASS-II

Resistance Spot Welding Process Monitor

by JoiningSolutions

A Joining Engineering Company

WeldPASS-II Resistance Spot Welding Process Monitor

The WeldPASS-II offers capability of joining process monitoring, quality analysis and traceability. It utilizes sensors and high speed data acquisition card to measure welding force, displacement, shielding gas flow rate, current, and voltage during welding for each weld.
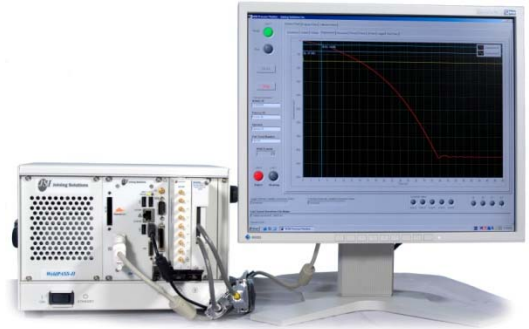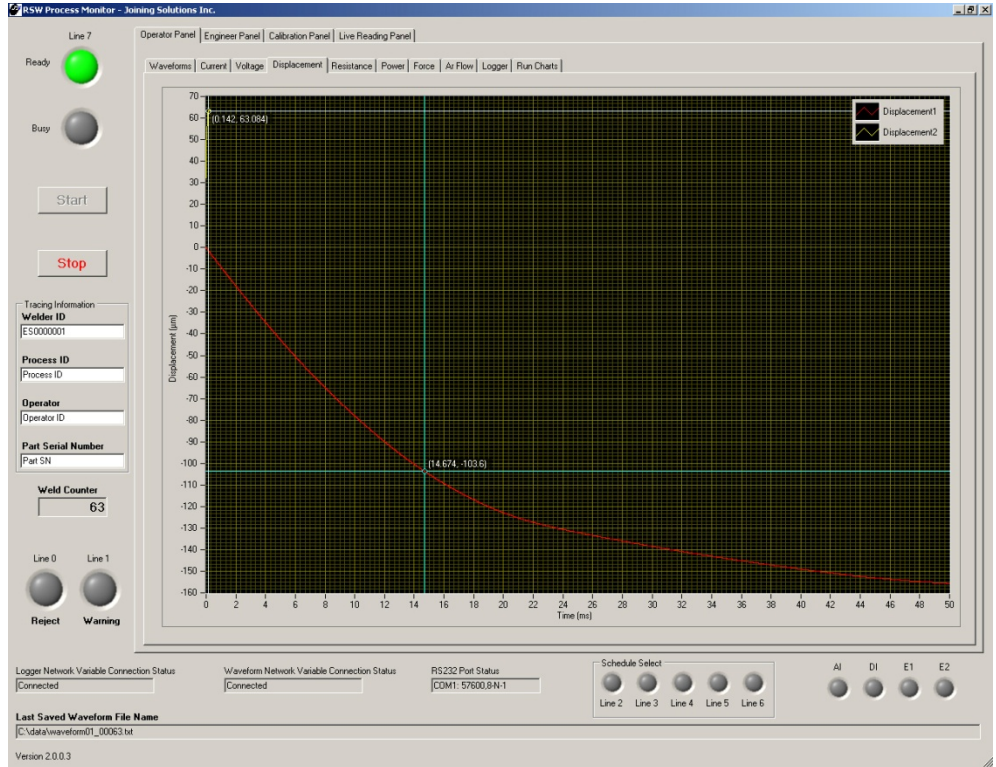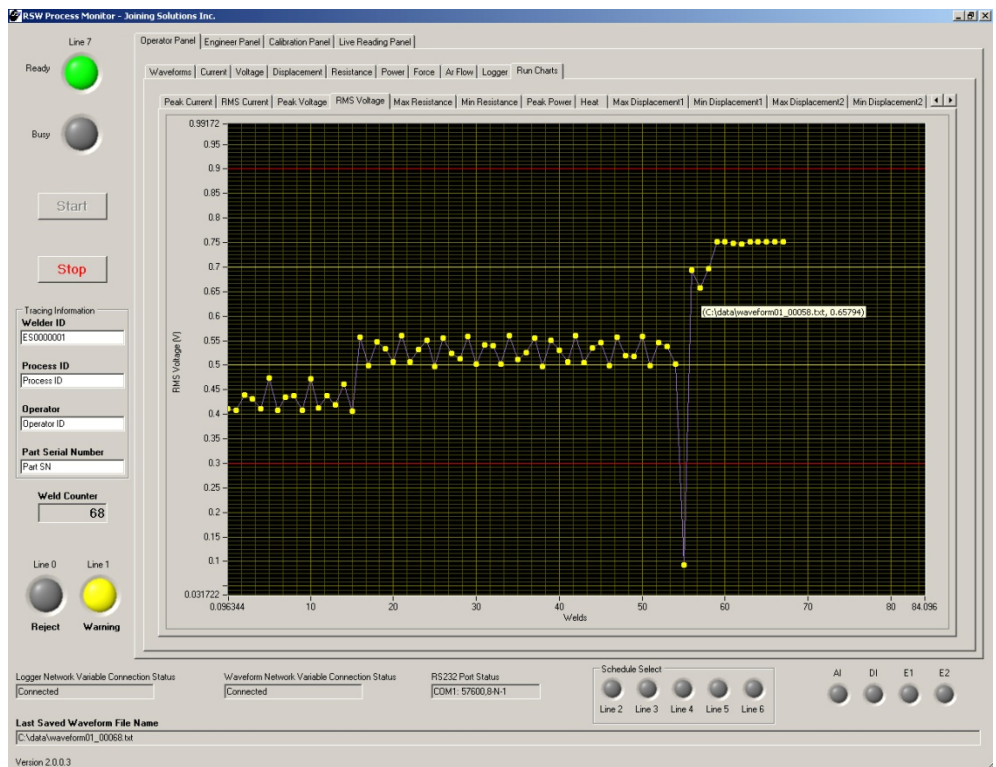
Hardware Features:

• Industrial standard PXI platform

• Measurements: current, voltage, displacement (2 channels), force (2 channels), gas flow rate.

• 16 bit high accuracy Analog-to-Digital conversion.

• High speed 500k samples/second/channel data acquisition.

• Digital I/O for communication with automated welder or other equipments. (Ready output, Reject output, Warning output, Schedule Selection input)

• Ethernet and RS232 communication ports available.

Software Features:

• 3 levels (Operator, Engineer and Calibration) secure configuration access administration.

• Record waveforms and measurement data for every weld.

• Run charts for all measurement data.

• Waveforms are indexed in log file.

• Accepts user Transfer Function input.

• Limit control and out-of-limit alarm for every weld.

• Source code of communication client software available for customer to tailor customized communication interface to corporate database.

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Screenshot showing displacement waveform

Screenshot showing Run Chart

Screenshot showing Logger

Screenshot showing Engineer Panel