

SigmaWeld - WeldWEB IoT / Monitoring System



SW WeldWEB is the process of proactively reviewing and evaluating your data and its quality to ensure that it is fit for purpose. Data monitoring software helps you measure and track your data using dashboards, alerts and reports.

SW WeldWEB offers a rapid return on investment, Improves efficiency, Aids automation and Increases competitiveness. It helps become customer-centricity.

Customer / Quality: Customer wants to be sure job has been welded with right consumables & approved WPS. If there were any deviations(What, Why and Impact on result if any) should be recorded.

SW WeldWEB for

AUTOMATION SYSTEM	MANUAL SYSTEM
<ul style="list-style-type: none"> Extended Welding Parameters WPS pull out from Server Control Weld Output Calculate Heat Input, Material Deposition Rate, Material Used per job 	<ul style="list-style-type: none"> Monitor and Record Welding parameters Calculate Arc Time Keep User log Calculate Weld Deposit Resource Optimization

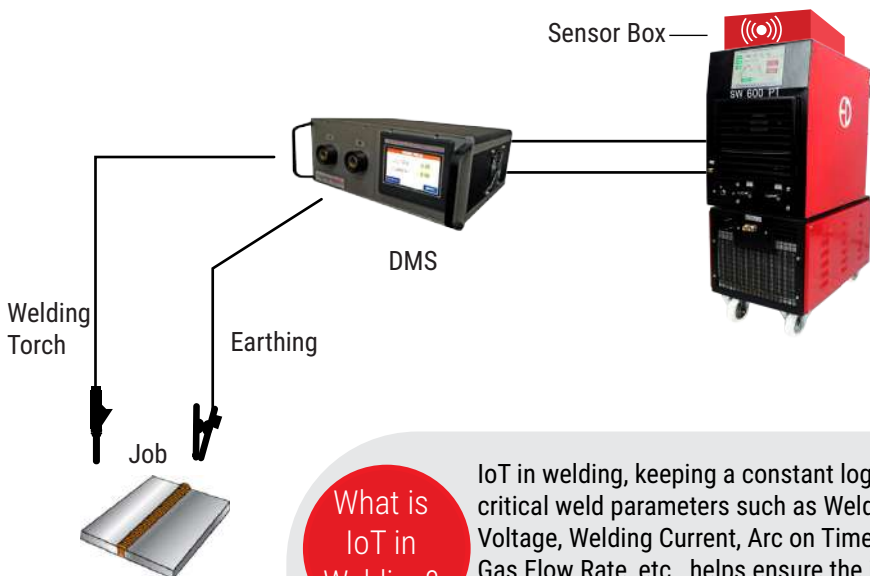
PARAMETERS CAN RECORD

- Measured Data - Current, Voltage - Wire Feed Rate, Gas Flow Rate, Wire Size - Welding Speed(Automation)
- Inferred Data - Calculated Data on the GO - Arcing Time(actual welding time) - Heat Input - Weld Deposition Rate - Material Consumed - Deposited.

FEATURES

- Portable and easy for using and interfacing with welding power source.
- The logger data can easily monitor on the remote computer.
- Can transfer logged data on USB memory drive.
- Logger memory capacity up to 1year.
- Communication port with USB as well as Ethernet port is available.
- We can use this logger with SAW, MIG, TIG, Arc Welding Machine.

SW WeldWEB IoT/Monitoring System for Single Unit



What is IoT in Welding?

IoT in welding, keeping a constant log of critical weld parameters such as Welding Voltage, Welding Current, Arc on Time, Gas Flow Rate, etc., helps ensure the job was welded within the WPS.

SIGMA WELD DISPLAY

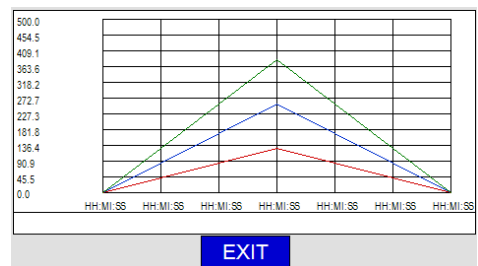
VOLTAGE	±99999	VOLTS
CURRENT	±99999	AMPS
WIRE SPEED	±99999	inch/Min
ARC TIME	±999 : ±99 : ±99	
WIRE DEPOSITION	±9999.999	kg

UPLOAD DATA
NEXT
GRAPH

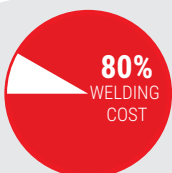
SIGMA WELD TIME ENTRY

START DATE	99: 99: 99	START TIME	99- 99- 99
END DATE	99: 99: 99	END TIME	99- 99- 99
GROUP NO.	99	USB UPLOAD	
DATA STATUS	99		

EXIT
ARC TIME RESET
CLEAR DATA



20%
LABOR COST



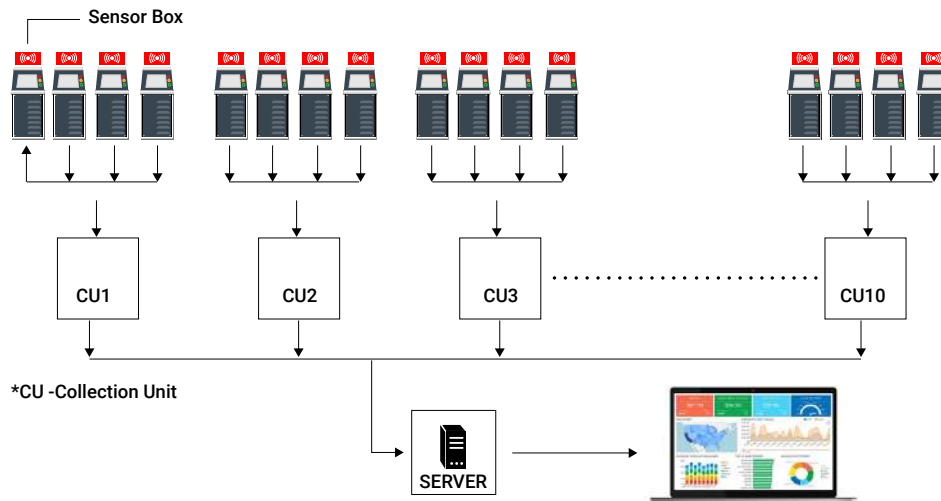
80%
WELDING COST

Welding Cost Reduction by WeldWEB

Planning of the rework procedure, Time required to move the faculty part to the repair location, Time to transfer the welder from one location to another, Arc gouging or grinding, Heat treatment, Repair welding & re-inspection by an independent third party and reporting.

SW WeldWEB IoT/Monitoring System for Multiple Units

- Consists of Central Server, Collection Unit and Sensor Box.
- 1 Server can connect 10 Collection Units
- 1 Collection Unit can handle upto 4 Sensor Boxes
- Each Sensor box connects to 1 Welding machine
- Each Server can connect upto 40 welding machines
- The Server can collect data of Voltage, Current and Arcing Time.



SigmaWeld Dashboard



Set Point Screen



SPECIFICATION	SW WeldWEB FOR SINGLE UNIT	SW WeldWEB FOR MULTIPLE UNIT
Technology	Microprocessor based Digital Inverter	Microprocessor based Digital Inverter
Input Supply	230 V AC, 50 Hz	230 V AC, 50 Hz
Display	7" LCD Touch Screen	7" LCD Touch Screen
Memory Capacity	20 MB from Logging	64GB from Logging
System Available	Single Welding Power Source	Multiple Welding Power Source
Monitoring & Recording Data Type	Arcing Time and Non Arcing Time, Current, Voltage, Wire Feed Rate, Gas Flow Rate.	Arcing Time and Non Arcing Time, Current, Voltage, Wire Feed Rate, Gas Flow Rate.
Communication Port	USB and Ethernet	USB and Ethernet
Dimensions (LxWxH)	340x245x130 mm	340x245x130 mm
Weight	5 Kg	5 Kg

SW WeldWEB IoT / Monitoring System can payback in terms of Quality, Repair Reduction Resource Utilization and Opportunity Cost.