

03

Welding calibration master equipment

Welding Expert

ARC

SPOT

DUO



Monitech co.,ltd.
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Main Features



ARC



SPOT

- Optimized for monitoring equipment and welding machine calibration usage (Master calibration equipment)
- Automatic storage, analysis, evaluation function (including S/W) of all welding data in the high capacity SD memory
- Simultaneous support of various communication methods (Wi-Fi, LAN (TCP/IP), RS-485, and RS-232: when used as a terminal in network)
- Build-in function for various data analysis and automatic report production

Applications



Automobile

Application case



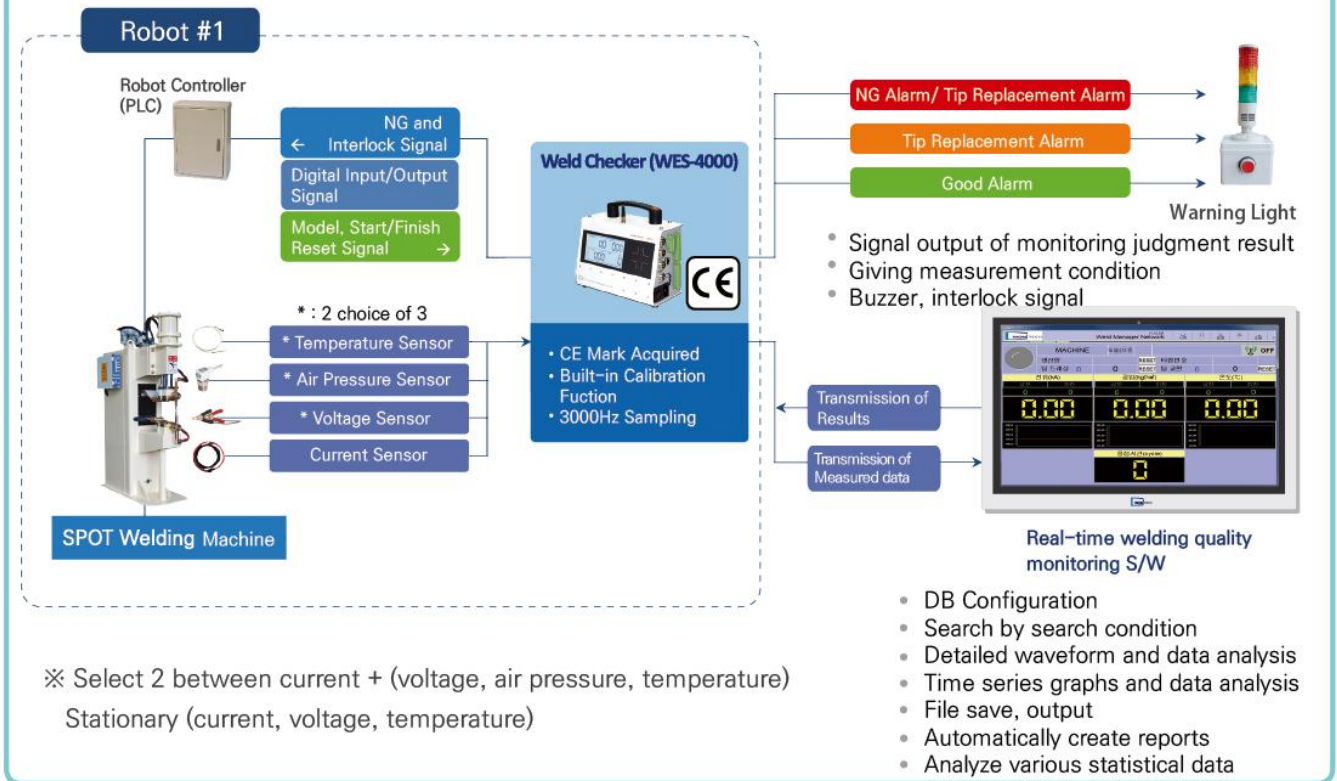
One installation example



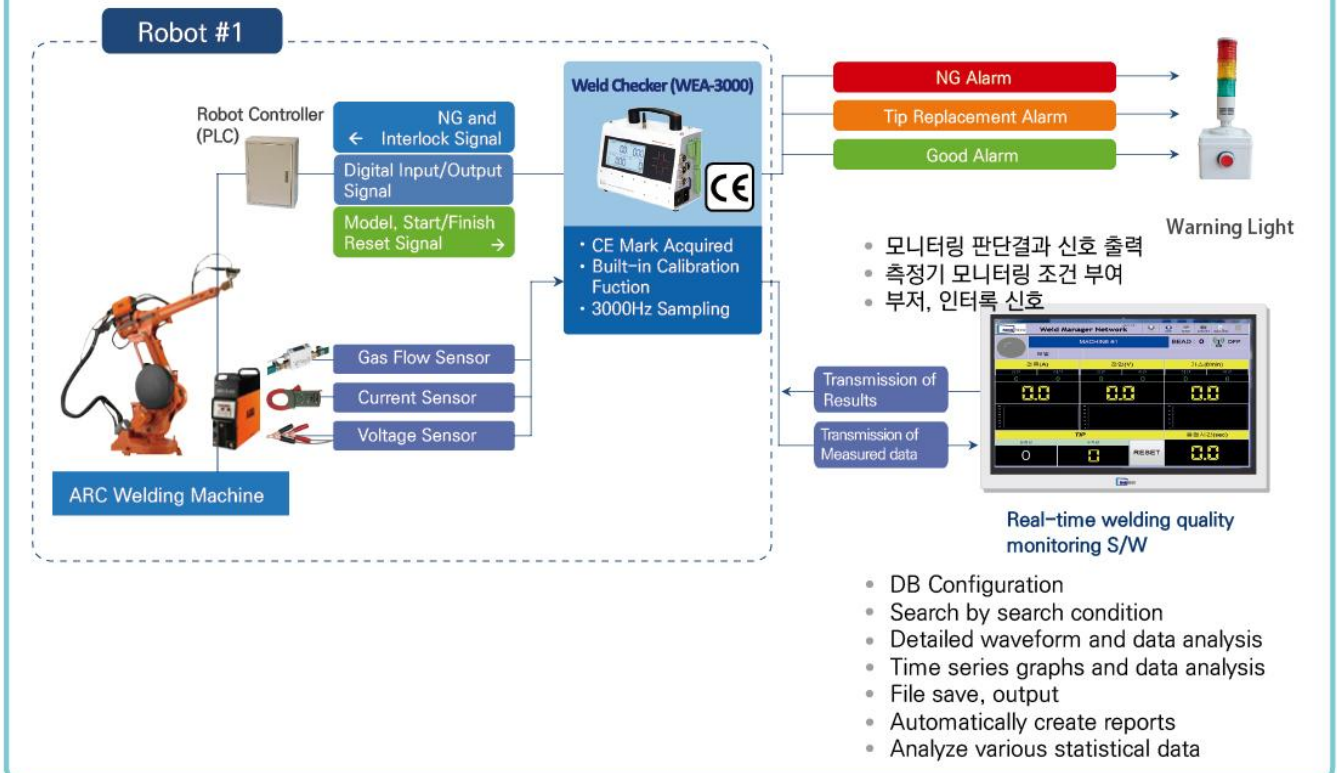
Multiple installation examples

Basic Configuration of Welding Monitoring System

SPOT Welding



ARC Welding



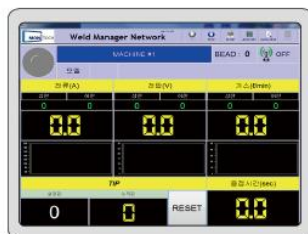
Weld Checker Specification and Types

* Optional ** Provided when used for network only

*** Choose one between gas flow and pneumatic

Model Name	WEA-3000	WES-3000	WES-3000F	WED-3000	WED-3000F
Process	ARC	Resistance	Resistance + Force	ARC + Force	ARC + Force + Resistance
Functions	Current, voltage, gas flow, welding time, start section, delete, Data upper/lower limits management, etc.	Current, voltage, weld time, pneumatic(force), coolant temperature, heat input, welding spot omission prevention, tip/dressing replacement interval, data upper/lower limits management and production management	WES-3000 function + digital force meter	Both ARC and SPOT function included	Both WED-3000 + digital force meter function included
Current Range	Max. 2,000A	Max. 200kA	Max. 200kA	ARC: Max. 2,000A Resistance: Max. 200kA	ARC: Max. 2,000A Resistance: Max. 200kA
Voltage Range	Max. 100V	Max. 10V	Max. 10V	Max. 100V	Max. 100V
* Gas Flow	○	—	—	○***	—
Welding Force	—	—	—	—	○
* Pneumatic	—	○	○	○○***	—
Measuring Welder	AC, DC Inverter DC, Rectifier DC and Condensor DC				
Measuring Frequency	3,000 Cycle/sec				
Included S/W	Weld Manager Viewer(For data query only)				
Size(mm)	220(W) X 189(D)X110(H)				
Weight(Kg)	2.5				
Power	AC 1000/220V, 50/60Hz				
Data Storage	4 Giga SD MEMORY CARD				
** Comm. Types	RS-232	○	○	○	○
	RS-485	○	○	○	○
	LAN	○**	○**	○**	○**
	Wi-Fi	○**	○**	○**	○**

S/W Main Screens



only 1 - Main screen(ARC)



only 1 - Main screen (SPOT)



Multiple ARC / SPOT screen



Data search

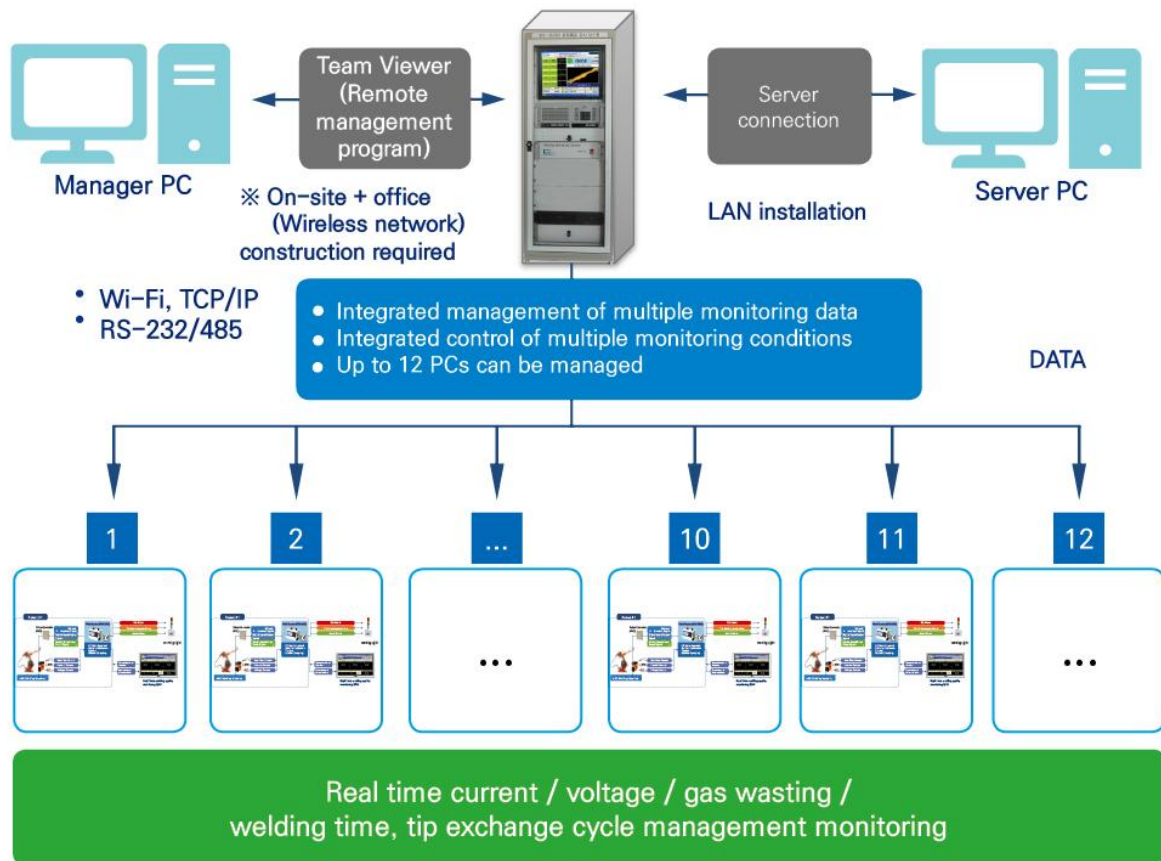


Data search (CP/Cpk)



Setup

Simultaneous management of multiple units Basic configuration diagram of welding monitoring system



Main Clients



Real-time welding quality control and inspection solution

Real-time welding monitoring system

- 01. Welding quality monitoring system (ARC/SPOT/TIG)
- 02. Intelligent welding monitoring system (NUT & BOLT Projection welding)
- 03. Welding calibration master equipment (ARC/SPOT/DUO)
- 04. MICRO SPOT welding monitoring system
- 05. High speed thermal imaging welding monitoring system
- 06. Ultrasonic welding monitoring system
- 07. Laser welding monitoring system

Welding process measurement and equipment

- 08. Welding force measuring gauge (FORCE)
- 09. Current and force gauge (HANDY)
- 10. Advanced current and force gauge (HANDY PRO)
- 11. Measuring analyzing equipment for WPS/PQR (WPS)
- 12. Welding waveform analysis management equipment (MULTI)

Inspection and integrated monitoring S/W

- 13. Integrated management and control system (MIS)
- 14. Inspection record computerized management system for the Initial, middle, and final products (IM)



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ISO 9001 / ISO 14001 / INNOBIZ / Venture

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