

Next Generation in Welding Traceability

Visualize
welding operations

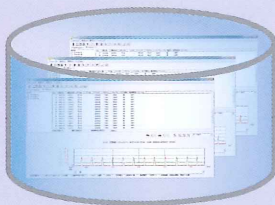


Check welding operations in real-time on a teaching pendant.

Robotic Welding Quality Management System

Store

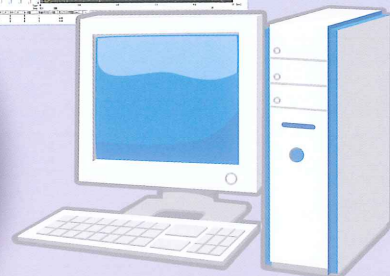
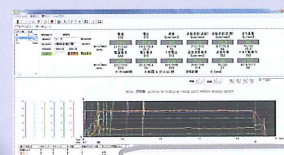
welding operations



Record what is welded where, when and how.

Monitor, save and easily manage robot welding data.

Track
welding operations



Notify troubles detected while welding is in progress.

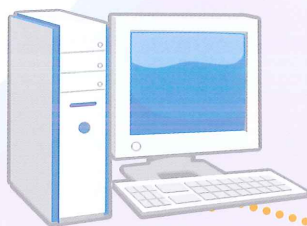


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Robotic Welding Quality Management System

This system lets users check ongoing welding operations on a teaching pendant, record welding data on PC and manage what was welded where, when and how.

Data is sampled 100x more frequently than with earlier systems, so users benefit from the greater accuracy.



FD-AM

Ethernet

■ Teaching pendant monitor

Item	Description
Maximum sampling frequency (Minimum sampling interval)	20Hz (50msec) Sampling frequency can be set separately for each monitored item.
Monitored items (11)	Current, Voltage, Feeding load, Feeding speed (Feeder), Feeding speed (Measuring unit) ^{※1} , Feed motor current ^{※2} , Gas supply rate ^{※1} , Gas pressure ^{※1} , Welding power supply primary voltage ^{※2} , Welding power supply internal temperature ^{※2} , Welding power supply fan speed ^{※2}
Display format	Numbers and waveforms
Displayed welding results	Average, Maximum, Minimum, Welding time, Welded distance

※1: Option ※2: Only when using Welbee series inverters

■ FD-AM (PC application)

Item	Description
Maximum sampling frequency (Minimum sampling interval)	(Current/Voltage: 100 usec, Other: 50 msec) Sampling frequency can be set separately for each recorded item.
Recorded items	Commands (5) Current, Voltage, Wire feeding speed, Welding speed, Gas supply rate ^{※1}
	Monitored items (11) Current, Voltage, Feeding load, Feeding speed (Feeder), Feeding speed (Measuring unit) ^{※1} , Feed motor current ^{※2} , Gas supply rate ^{※1} , Gas pressure ^{※1} , Welding power supply primary voltage ^{※2} , Welding power supply internal temperature ^{※2} , Welding power supply fan speed ^{※2}
Displayed welding results	Real-time Average, Maximum, Minimum, Welding time, Welded distance
	Logged Average, Welding time, Welded distance, Welding error detection
Communication	Ethernet, auto connect/reconnect to robot
Weld point description	Robot controller name, Program comment, Work name, Work serial number, Weld segment name
Trouble monitoring	Conflict with command values, Deviation from settings
Trouble indication	Displayed as error code and message

※1: Option ※2: Only when using Welbee series inverters

System configuration

■ PC (To be provided by user)

Item	Required specification ^{※3}
OS	Windows Vista, Windows 7 (32-bit)
PC	Model IBM PC/AT compatible
	CPU Intel Core3 or faster
	Memory 2 GB or more
	HDD 200 MB or more of free space
	Disc drive Equipped with CD-ROM drive
	Network adaptor Equipped with Ethernet port (RJ-45)
	USB port 1 or more (Must connect to sentinel keys.)
High-resolution display 1024 x 768 dot or higher	
Network environment	Standard/Protocol Ethernet (TCP/IP)
	Network hardware Hub, router, repeater, etc.

※3: Requirements vary according to the number of connected robots.

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Note

This product and related technologies, including software, are subject to Catch-All Controls. Prior to export, verify the end-user and their intent and, if necessary, properly complete all required procedures, e.g., applying for an export permit with the Ministry of Economy, Trade and Industry.

- The information herein is valid as on December 2015. Specifications are subject to change without notice.
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