

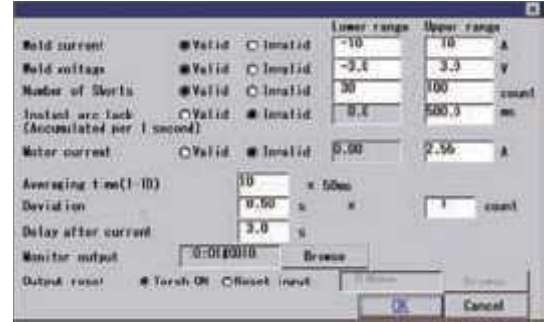
Weld Data Management

Big progress toward ideal production and quality control. Samples weld data with an interval of up to 50 micro seconds, allowing high-precision monitoring and status/error output. The data can be stored and used for quality control.

Weld Monitor

Standard

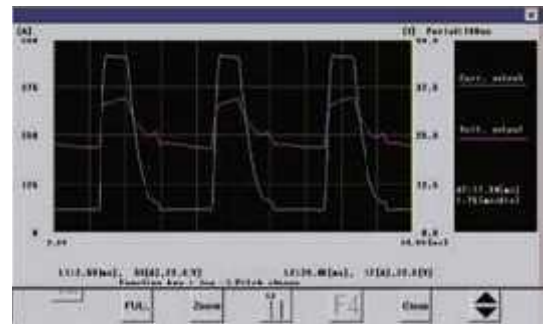
Monitors data such as weld current, voltage and wire feed speed constantly and warns when abnormality is detected.



Weld Data Management

Optional Software

- **Weld Monitoring (Expanded function)**
Up to 50 weld monitoring conditions can be defined.
- **Weld Data Logging/Recording**
Data such as weld current, voltage and wire feed speed can be logged according to the preset triggers. The log data can be graphed on the teach pendant and recorded on SD memory card.



Welding Data Log

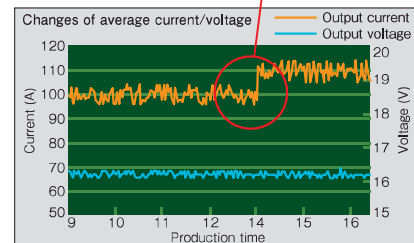
Optional Software

Logs data of weld sections. The log data can be saved for analysis.

Time	Program	Weld current	Weld voltage	Wire feed speed	...
12:11:40	Prog001	140	26.0	3.00	...
12:12:30	Prog002	120	26.1	3.50	...
12:13:20	Prog003	140	26.0	3.00	...
12:14:10	Prog004	140	26.0	3.00	...
12:15:00	Prog005	140	26.0	3.00	...
12:15:50	Prog006	140	26.0	3.00	...
12:16:40	Prog007	140	26.0	3.00	...
12:17:30	Prog008	140	26.0	3.00	...
12:18:20	Prog009	140	26.0	3.00	...
12:19:10	Prog010	140	26.0	3.00	...
12:20:00	Prog011	140	26.0	3.00	...
12:20:50	Prog012	140	26.0	3.00	...
12:21:40	Prog013	140	26.0	3.00	...
12:22:30	Prog014	140	26.0	3.00	...
12:23:20	Prog015	140	26.0	3.00	...
12:24:10	Prog016	140	26.0	3.00	...
12:25:00	Prog017	140	26.0	3.00	...
12:25:50	Prog018	140	26.0	3.00	...
12:26:40	Prog019	140	26.0	3.00	...
12:27:30	Prog020	140	26.0	3.00	...

Example of log data analysis

Wire target position misalignment caused by production lot change



Available for defect rate reduction

More advanced welding system available

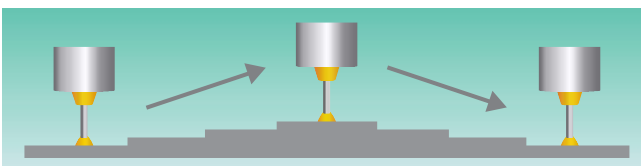
Utilize features such as external communication and large capacity memory.

Auto Extension Control

Optional Software

Compensates heat distortion or teaching error of odd-shaped work.

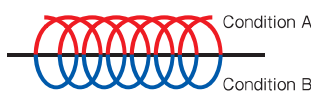
Robots detects changes in wire extension and compensates automatically.



Synchronous Weaving Low Pulse (Spiral Weaving Included)

【Spiral weaving movement】

Torch movement



• Synchronizes weld current, wire feed speed and weaving completely.

• Alternates condition A/B during weaving, which is ideal for welding of different thickness plates. (One for thin plate, the other for thick plate)

Cooperative Multi-Robot Control

Allows cooperative control between two robots.