

ARONET



**NETWORKING SOFTWARE FOR
RESISTANCE WELD CONTROLS**

- ⇒ Workshop visibility
- ⇒ Equipment availability
- ⇒ Quality assurance

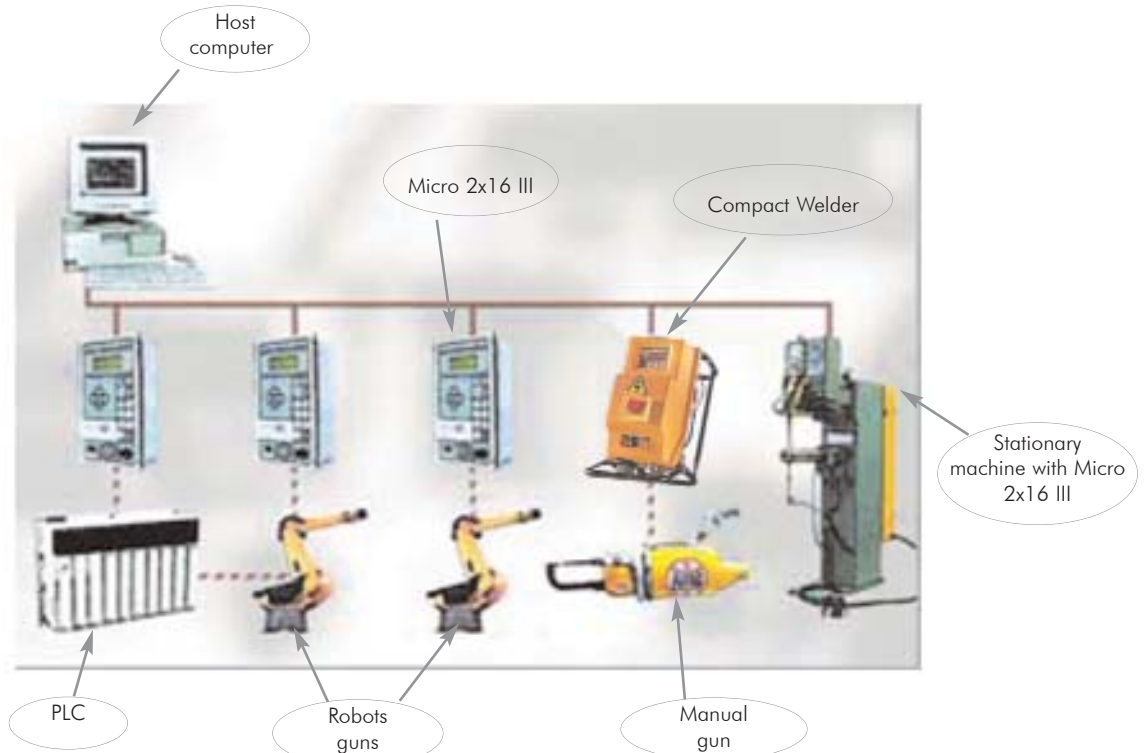
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CENTRALIZED MANAGEMENT

ARO weld controllers can be networked to a central computer running the ARONET software.



All the functions of each and every welder can be accessed in real time on the central computer :

- Programming of the parameters
- Visualization and management of counters (spots counters, electrode wear compensation, dressing, etc...)
- Treatment and acknowledgement of errors and alarms
- Visualization of the Inputs and Outputs
- An automatic audit function avoids all potential error during the parameterization of the installation

MAINTENANCE AND TRACEABILITY

In addition, the computer automatically records all the data necessary for an effective maintenance and a high level of traceability as requested by the quality assurance standards :

- Log of errors
- Log of parameter modifications
- Archiving and backup of weld programs
- Recording of weld results



EXAMPLE OF MODIFICATION LOG



The date and time of each modification is recorded

WCC n°	Parameter	Date	Time	User	Modified paramter	New value	Old value
27	Program 12	05/01/1998	14:39:25	4 P.C.	Current control	Without control	With control
15	Program 7	07/03/1998	14:39:25	5 P.C.	Current regulation	Current regulation	% I _{max} (linear)
62	Program 1	27/03/1998	09:15:31	3 P.C.	Current on step 7 (A)	9600	9500
62	Electrode 1	27/03/1998	09:25:56	2 P.C.	Counter for step 7	950	900
8	Program 4	08/10/1998	09:23:21	1 P.C.	Weld time (periods)	12	11
62	Program 0	08/10/1998	09:27:54	3 P.C.	Number of pulsation	3	2
62	Configuration	08/10/1998	09:28:17	2 P.C.	Wear compensation type	by segments (linear)	by steps
27	Program 12	08/10/1998	09:29:31	3 P.C.	Upper current threshod (%)	4	5
27	Program 12	08/10/1998	09:29:31	3 P.C.	Lowercurrent threshod. (%)	4	3
27	Program 12	08/10/1998	09:29:31	3 P.C.	Number of repetitions	2	0
62	Program 0	08/10/1998	09:31:41	0 WCC	First squeeze	15	18
62	Program 0	08/10/1998	09:32:07	0 WCC	Pulsation interval	2	1

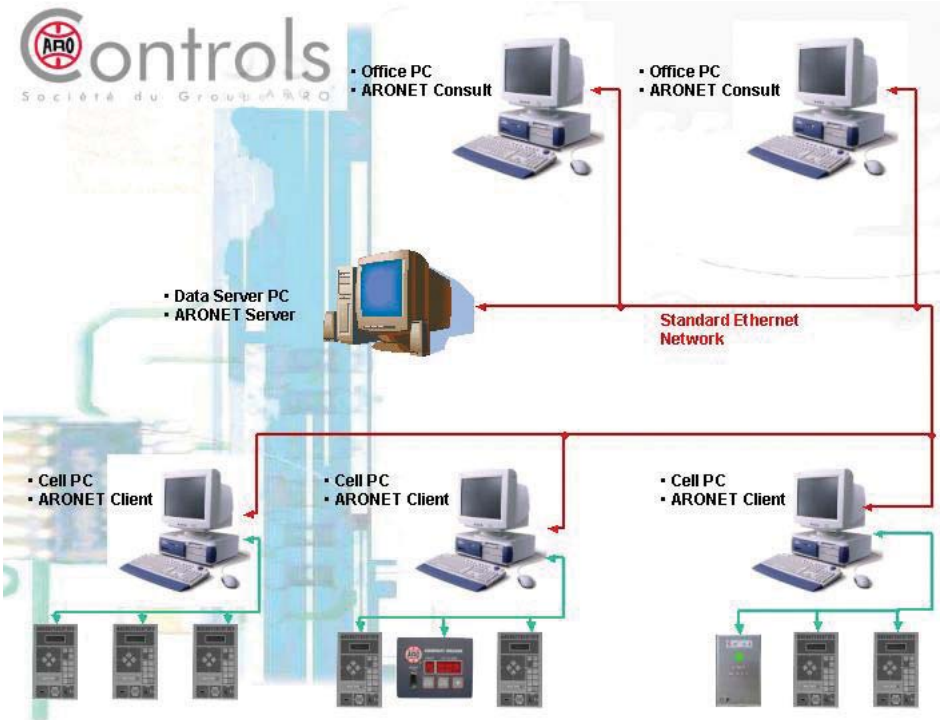
The weld control and the modified parameter are clearly identified

A password management system indicates who actually made the modification

The nature of each modification is clearly detailed

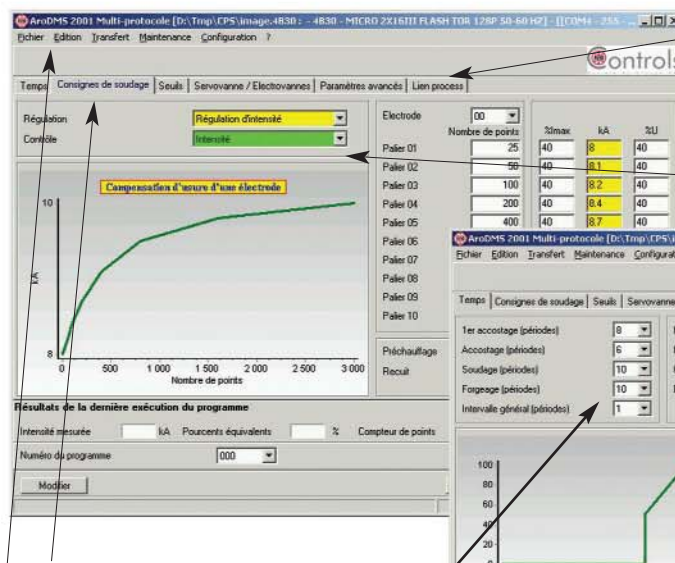
Maintenance utilities (fast exchange of weld timers, diagnosis of inputs/outputs, etc..) complete this comprehensive manufacturing management software.

CLIENT / SERVER ARCHITECTURE



A powerful client/server architecture allows the supervision of the entire factory, while respecting the notion of production cell. The system relies on the corporate network in order to reduce the costs of wiring.

PERFORMANCE AND ERGONOMY

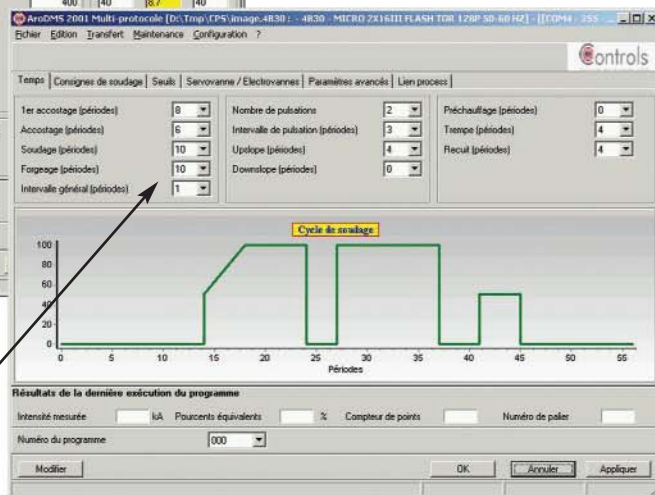


A status bar keeps you constantly aware of events occurring on the network (such as an electrode end of life, default ...) with interactive buttons allowing fast action and problem solving.

Multiple choices guide the user

Pull-down menus facilitate navigation

All the parameters are easily accessed with the keyboard or the mouse (with tool tips)



CHARACTERISTICS



- Software compatible with Windows XP or 2000
- Multilingual
- Physical network : RS-485 or Ethernet (depending on weld control model)

As an option, this software can control a digital I/O card (16 Inputs/16 Outputs), allowing the use of customized visual and/or audible alarms. Other options can be developed on request.



controls
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