

QS workshop 2007 at Harms & Wende Schweißtechnik

## Safe welding with the latest in IPC technology is a success



Quadrigo Master from Harms & Wende

Quadrigo Visu and Quadrigo Visu Plus

On 21<sup>st</sup> June 2007 a QS welding workshop took place at Harms & Wende Schweißtechnik in Hamburg, Germany, which was very well attended by automotive manufacturers and suppliers. At the workshop, the new modular and flexible monitoring system from the PQS family was presented, which includes the components 'Quadrigo', 'Quadrigo Master' and 'QuadrigoVisu'. Beckhoff supplied the latest Industrial PC technology for the monitoring construction kit with a customer-specific version: control cabinet PCs from the C69xx series and the new CP72xx Panel PC.

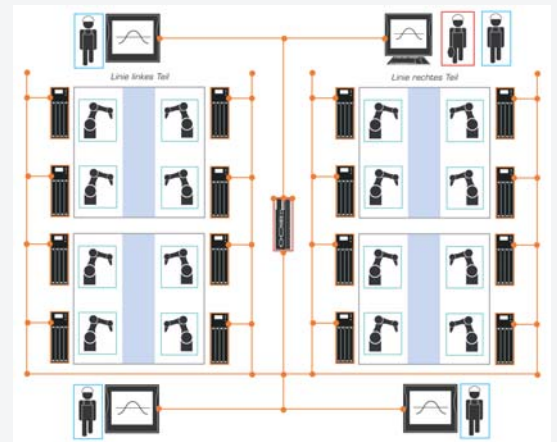
The name Harms & Wende Schweißtechnik has been synonymous with welding equipment for over 60 years in Europe. The company offers a dynamic system for every welding task, such as resistance, friction and friction spot welding. HWH Qualitätssicherungs-Technologie GmbH is a 100 % subsidiary of Harms & Wende, which specializes in the economic and reliable assurance of the process and product quality of welding methods and joining technologies such as arc welding, stud welding or clinching.

The Quadrigo Master is based on a C69xx-series IPC, which is tasked with inputting all relevant welding process data from the connected Quadrigo measurement module to a MySQL database. That portion runs as a background client.

The Quadrigo Visu modules are responsible for the rapid and reliable operation and visualization of the entire system. These also include adapted functional and informational tools for unclear or complex production plants – not all functions should or may be possible everywhere, all the time. Despite that, information must be made available, quickly and securely. The CP72xx Panel PC, also in a customer-specific version, is used for this purpose.

The Quadrigo PC components were completely developed to series production maturity, from design phase to printed catalog item, in just three months. The majority of customer-specific requirements are effectively covered by just three versions. The large degree of acceptance on the part of participants rounded off the successful presentation of Quadrigo monitoring technology at the QS workshop.

→ Harms & Wende GmbH & Co KG [www.harms-wende.de](http://www.harms-wende.de)  
 → HWH Qualitätssicherungstechnologie GmbH [www.hwh-qst.de](http://www.hwh-qst.de)



Sample configuration using 16 welding robots with 16 measuring points:

- one Quadrigo Master, database server
- three Quadrigo Visu CP7202, 15-inch touch panel
- one Quadrigo Visu Plus CP7203, 19-inch operating panel