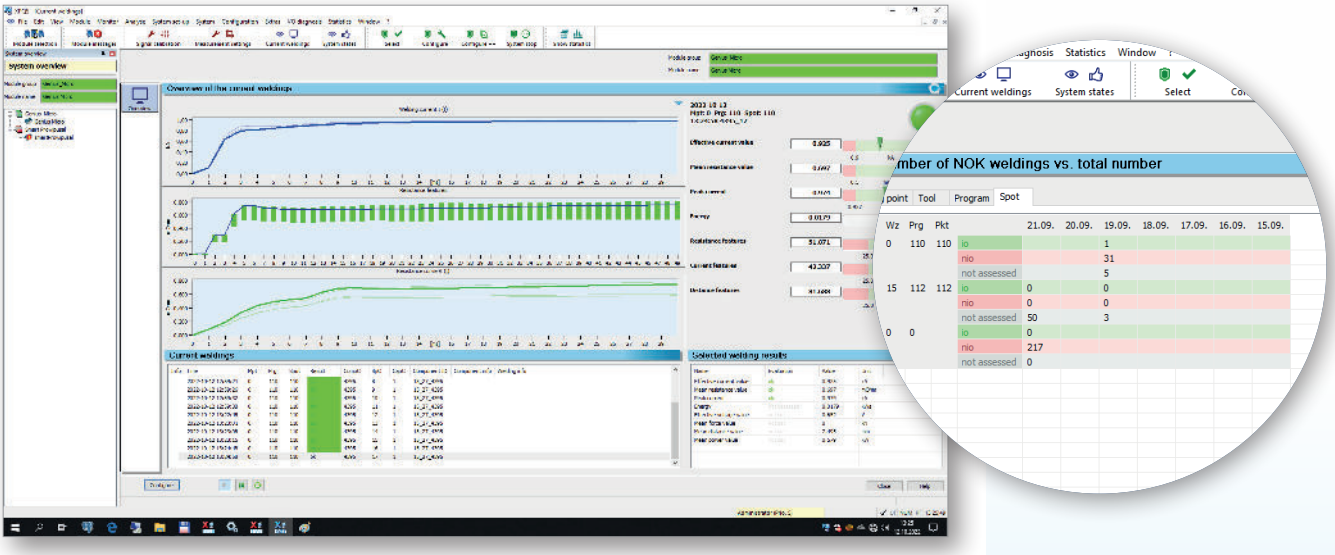
HARMS+WENDE GROUP

Monitoring of the welding process

XPQS

Safe, complete, effective and powerful!

*With **XPQS** you are able to reach a new dimension fort he monitoring of resistance welding processes.*



PROPERTIES

- Admission of the effective values and signal characteristics of current, voltage, resistance, power, force and displacement
- Monitoring of the process by using known limit values and/or signal curves
- Runaway and wear detection with Q-Stop
- Storage of the process data in a database with permanent archiving
- Extensive statistical analysis
- Recording of batch or component IDs possible
- Central operation of up to 16 measuring points on one PC
- Available as a network-capable variant
- Integration in Genius welding control possible

… and much more

DOCUMENTATION
WATCHING
ANALYSIS
MONITORING
OPTIMIZATION

HARMS+WENDE GROUP

Complete monitoring and documentation of your resistance welding process

	FEATURE
GENERAL	**Measured values**
	Signal characteristics of current, voltage, resistance, power, force and displacement
	Sampling frequency
	Up to 36kHz at measurement of the electric and mechanical sizes
	Interfaces
	24V i/o , Ethernet, Profibus, Profinet, Interbus (optical / electrical)
	Measurable current times
	Up to 7.000 ms
SOFTWARE	***XPQS***
	Workplace-Version: · Operation and visualization of up to 16 systems · permanent data storage possible · Logging of component ID`s
	XPQS-NET
	Network version: · Operating and visualizing of the network version · Includes the OPC UA option
PARAMETERS	**More than 20 parameters can be monitored**
	For example penetration, average electrical values, current, resistance, voltage, power, energy, force, peak current and current flow time
MONITORING	**Signal characteristics / parameters**
	A max. of 5 signal characteristics and 5 parameters can be monitored simultaneously
OTHER FUNCTIONS	Usage of Software ***XPQS*** for component documentation

XPQS-VERSIONS:

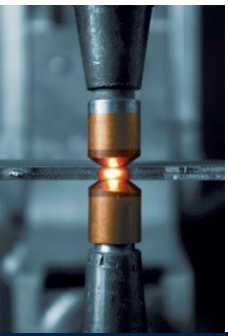
- For welding control Genius available as an option
- For any external welding controls (50 Hz, MF or HF) with the QUADRIGO measuring module
- For CD-welding with measuring module QUADRIGO
- Available as a product variant ***XPQS*** Light and ***XPQS*** Base

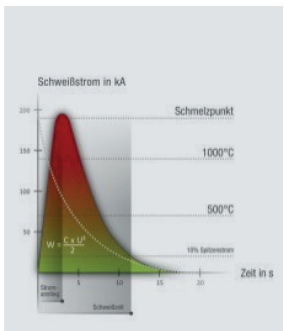
APPLICATIONS:

- Spot welding
- Projection welding
- Micro welding (10kHz)
- Alternating current (AC)
- Direct current (DC)
- Medium frequency (MF)
- High frequency (HF)
- Capacitor discharge (CD)

BENEFIT:

- Complete process analysis
- Timely reaction to process changes
- As a result, increasing competitive advantage and high productivity
- Reduction of test costs and test time
- Effective manufacturing processes
- Powerful Quality Assurance
- Complete process documentation





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