



Q-Mod

Process monitoring

Version: 01-2011



2- or 4-Channel Measuring Modules

Short information

Your application:

You have a resistance welding equipment (50/60Hz or Mid-frequency) for:

- single spot or serial welding
- seam welding
- projection welding
- special welding applications

The existing welding controller has no or not sufficient measuring functionality for process control and monitoring. Your customers ask you more and more to

Your requirements:

You want to retrofit your welding application with an external process monitoring system for quality control. The measured process data should be stored via PC. The solution must be cost effective, easy to install and easy to manage.

Our answer:

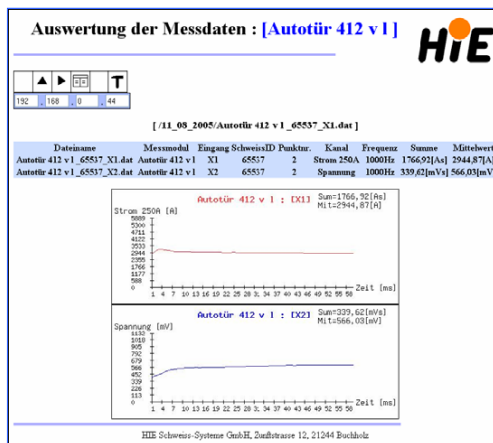
The Q-MOD is a measuring module specially designed for the process monitoring of resistance welding applications. Two of the following measurands can be processed in pair simultaneously with one module:

- Rogowski signal (secondary current)
- 0-10V analog signal (primary current, voltage, pressure, force etc.)
- 5V TTL signal (path)

The Q-MOD is equipped with a LAN-interface. Via this LAN-interface the Q-MOD can be connected to a PC-server. The software for the configuration and data transmission is installed on the Q-MOD itself.

Operating and configuration is done by a web browser as Internet Explorer.

The whole communication is based on TCP/IP. On the PC-server a FTP-server must be installed. The FTP-server software is part of the scope of supply.



We reserve the right to make changes which are in the interest of technical progress.

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Q-Mod-1

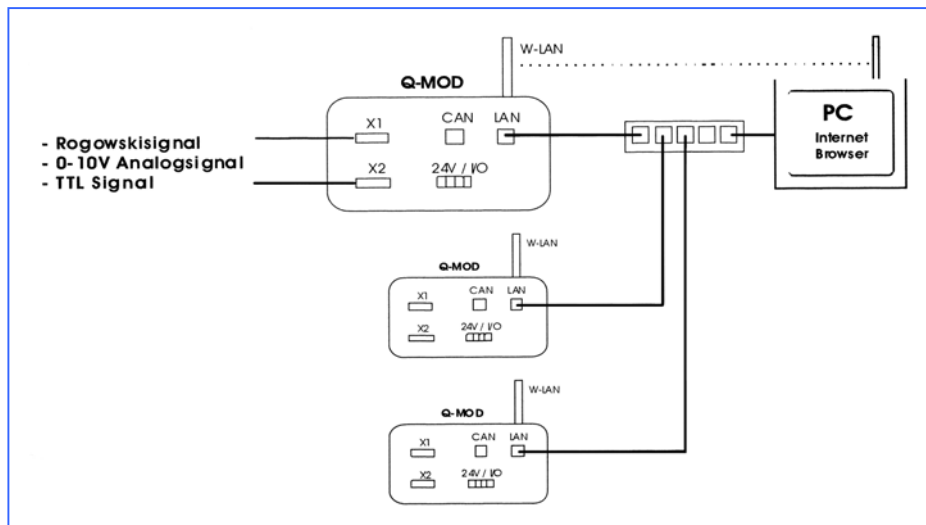


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System overview



Optional the Q-MOD can be equipped with a W-LAN converter. With this option the communication between Q-MOD and PC-server runs via W-LAN standard IEEE 802.11b. The W-LAN option is especially useful, when additional cable installation between welding machine/robot and control cabinet is not possible or complicated. The range of the wireless communication depends on the situation on site.

The compact size makes it possible to fix the Q-MOD directly to the machine body or welding gun (see technical data). The Q-MOD works with 24V DC. A 24 V DC/220V AC power supply is a part of the scope of supply.

Technical data:

Measuring inputs:	2 alternatively 4 measuring inputs with 9-pole sub-D sockets
Measurands:	- Rogowski signal - 0-10V analog signal - TTL-signal
Monitoring functions:	Up to 8 programmable min/max limits for monitoring of sum- and average values
Interfaces:	- LAN-interface (100 Mbit) - three definable digital I/O's.g. for external start coding of programs or trigger for output signal when a monitoring limit has been reached - CAN-interface (optional) - W-LAN bridge (optional)
Power supply:	24V DC
Size (WxHxD) mm:	Compact case: 126x125x50 mm (without plugs) Double case: 226x125x50 mm (without plugs and antenna)
Weight:	Extension by 4 channels or W-LAN bridge Compact case ca. 0.5 kg Double case ca. 1.0 kg in accordance of extensions

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