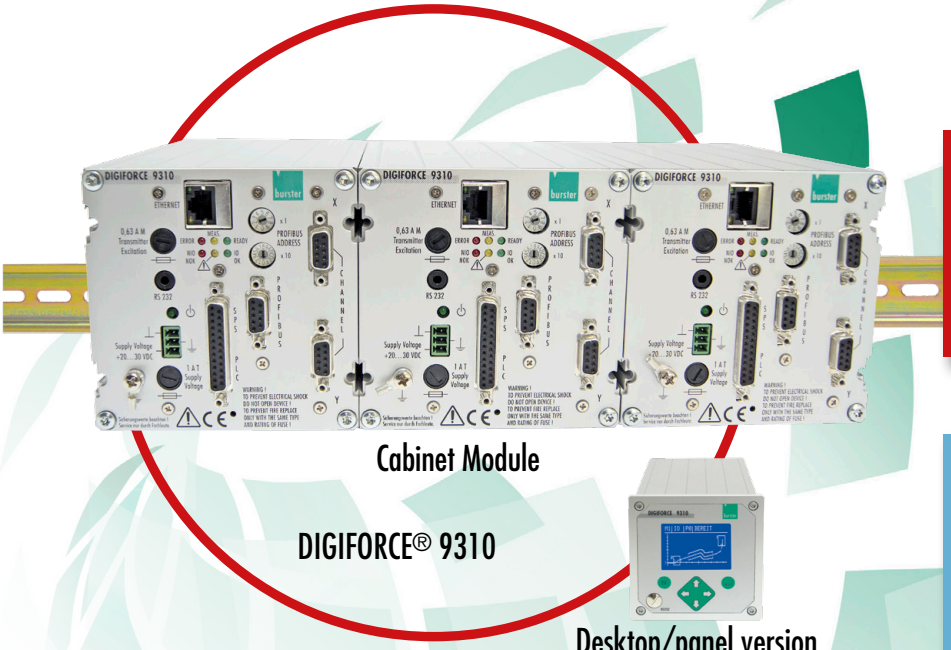
Modular DIGIFORCE® series 9310 Press-Fit Control System



Cabinet Module

DIGIFORCE® 9310

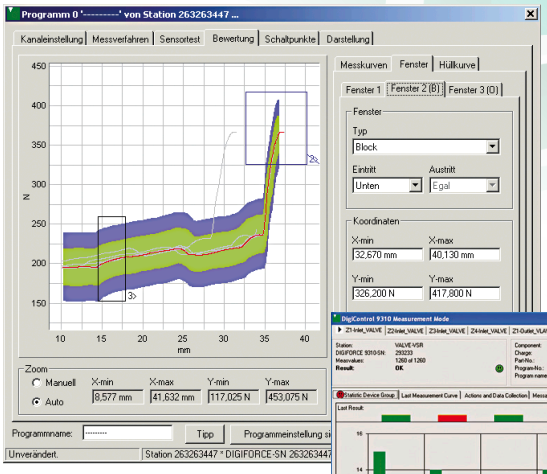
Desktop/panel version

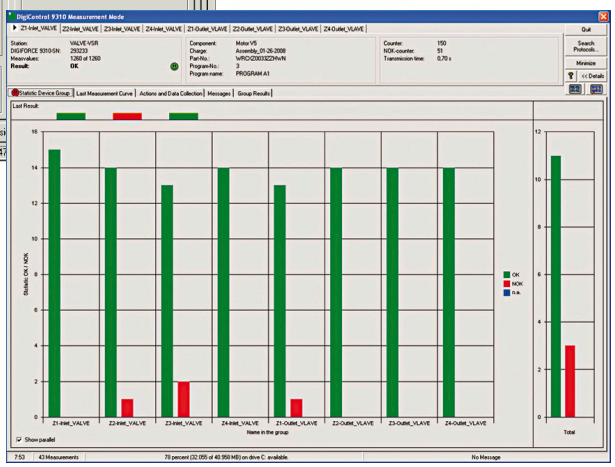
100 % Quality

- Economical
- Practical
- User-orientated

- Standard 24 VDC supply voltage for the module
- Snap-rail mounting for shortened fitting time
- Networking and PC linking via Ethernet interface
- One PC software program for all device types

With the cascadable and network-capable press-fit module for single and multiple channel process monitoring, the highly successful DIGIFORCE® 9310 range of devices has been complemented with an extremely cost-effective, flexible and autonomous solution for switchgear cabinet assembly.





- Fast switch-off with the ON LINE window facility aids scrap reduction
- Intelligent envelope curve evaluation greatly assists with strong process deviations
- High performance DigiControl PC software enables intuitive module parameterization and measurement data acquisition
- Process-orientated editing of a wide range evaluation tools (evaluation window, trend etc.) during set-up operation
- Shortest evaluation times for high cycle rates

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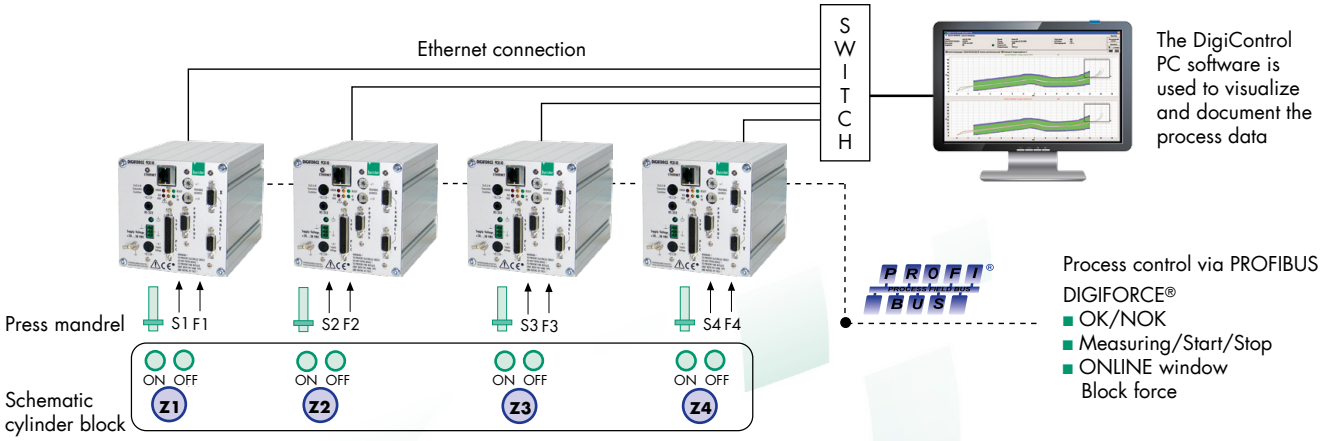
Apart from the proven DIGIFORCE® display versions, the switchgear cabinet module with the same performance range constitutes a very interesting alternative for centralized PC-based process visualization and documentation.

The switchgear cabinet modules measure and evaluate single- or multiple-channel press procedures autonomously. The parameterization and visualization as well as the archiving of production data is performed quickly and intuitively via Ethernet linking to a computer running the practical DigiControl PC software which can also be utilized with the display variants.

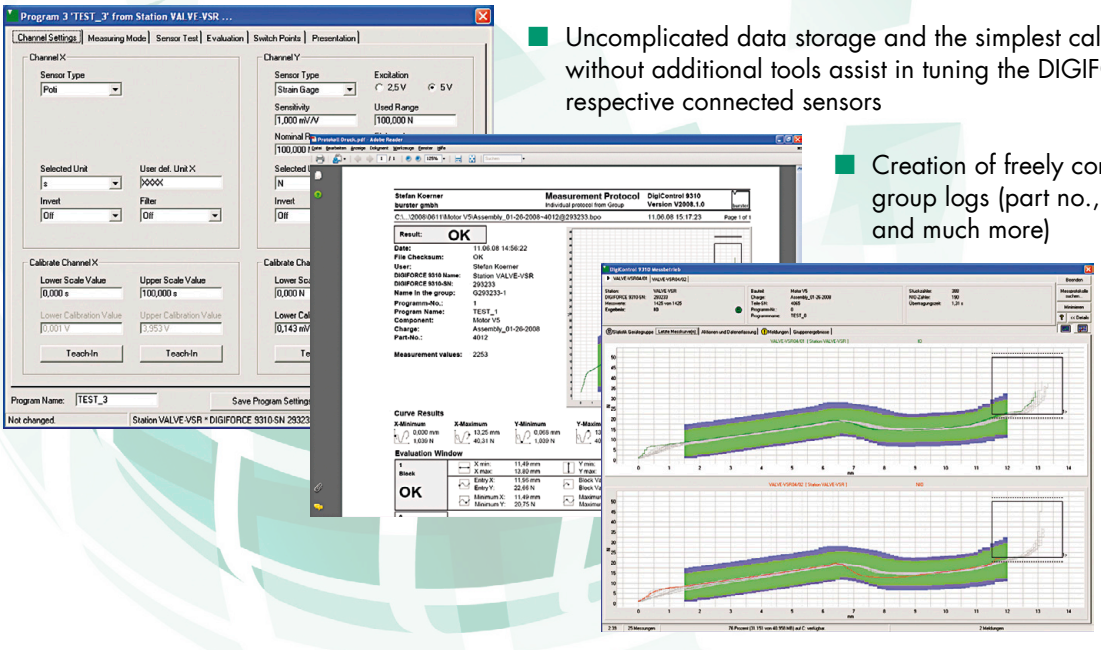
Application

Multiple channel press-fit control in cylinder head assembly

The inlet and exhaust valves in a cylinder head are simultaneously press-inserted and force-displacement monitored. The curve evaluation is block-force-based as the press is subject to system-related fluctuations from the hydraulic equipment. The evaluation results are transmitted to the central process controller via PROFIBUS. For the purpose of retraceability, the measurement data is sent in real-time to a host computer via Ethernet interface. After the measurement program switch-over, the valve guides are pressed in. The measured results and measuring curves recorded for each press-insertion point are collated in a station-related group log.



Which application-orientated uses does the PC software offer in conjunction with DIGIFORCE®?



- Uncomplicated data storage and the simplest calibration routines without additional tools assist in tuning the DIGIFORCE® to the respective connected sensors
- Creation of freely configurable single or group logs (part no., operator, batch, logo and much more)
- Statistical preparation, visualization and archiving of production data whether with single or multiple channel applications

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