Modular DIGIFORCE® series 9310
Press-Fit Control System

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

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
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.

The DigiControl PC software is used to visualize and document the process data.

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.