

Powerful Data Recording Systems For Diagnosis and Fatigue Life Monitoring

**Applied to Automobiles, Commercial Vehicles, Heavy Machinery,
Wind Turbines, Ship Industry and Aircraft**

Swift has been working successfully for more than 30 years in data acquisition systems. Our direct evaluation data acquisition systems and analysis software have been installed for Fatigue Life Monitoring and Diagnosis in a wide area of applications, such as the car industry, heavy machinery, windcraft industry, ship industry and in the aircraft industry.

During our long cooperation with international Research and Development departments of universities and institutes, our data systems have been continuously improved with the experience and feedback from our customers.

As a competent partner we also provide **customised solutions** for specific requirements and are at your service for **developments in the area of both hardware and software**. Swift GmbH operates in accordance with the Quality Assurance requirements of ISO 9000, as well as military standards.

Our main product – the **SWIFT MICRO-II** data acquisition system – is mainly used for **long-term measurements** in the car industry, heavy metal industry and in the aircraft industry.

For **all** measuring tasks the **MAS MATCH-II system** is available in **two to eight channel edition** with all disposable software methods. These systems have been proven and tested in industry for many years, especially for **mobile applications for both short- and long term measurements**. This hardware and software combination provides a very efficient method for **statistical monitoring and analysis** of, for example **strain, speed, temperature and acceleration**.

Our **latest development** is the **MATCH-XDV-system** which enables the customer to **directly record time signals** over several days **up to months** with a **data memory up to 2 Gigabyte**.

The option "**Remote Link**" allows the remote control of **both MICRO-II and MATCH-II** units via a **telephone link**, enabling remote downloading of measured data and changing of control parameters in the recorder. The option "**Network**" provides **flexible control of several recorders** simultaneously applicable at **different measuring locations**. These options ensure compatibility with the latest developments and requirements of modern distributed data acquisition systems, amongst others **GPS and CAN-BUS data base support**.

All standard and special software evaluation systems are applicable to both the MICRO- and MATCH-systems.

Another new product in cooperation with Prof. Dr. Ing A. Rupp, FH Kempten in Germany is the **Online Counting Evaluation and ANalysis System OCEAN**, a **cost-efficient, reliable concept** for the acquisition of long-term stress and load data in the automobile industry. The new **data recorder OCEAN ONE** offers a long term measurement system for load and stress measurements, which utilises **state of the art frequency correlation, damage assessment and force transfer modelling techniques** to achieve **extremely high reduction in data volumes**, allowing real time data transmission or on-board storage **over very long periods of time**.

Since last year, we are able to offer a **complete measuring service** to our customers together with our cooperation partners which covers the following:

- **Preparation of a concept for the measuring tests inclusive documentation**
- **Installation of the measuring equipment, strain gauges and sensors**
- **Provide the measuring instruments and materials**
- **Assistance, analysis and final test report**