



*Advanced technology working in harmony  
with nature and the environment*



*Dear Sirs,*

Advanced Technology working in harmony with nature and the environment.

The basic principle of our philosophy is reflected in our sense of responsibility towards the environment and the society in which we live.

Our aim is always to combine the customers requirements with economic efficiency and ecological responsibility.

In their use in industrial plants, machines, lifting and conveyor systems, industrial trucks, car industries and air conditioning systems, our sensors and devices help the industrial world to achieve the standards of quality and environmental protection required by

DIN EN ISO 14001 : 1996 and DIN EN ISO 90001 : 2000, standards.

The universally accepted operational accuracy and safety reliability of our products, is the end result of long term co-operation and consultation between our customers and ourselves.

The aim of these consultations being the production of products which were environmentally friendly, energy saving through long product life and safety for the workers employed in continuously operating production processes and rotating machinery control.

The medium size of our company enables us to respond very quickly to special customer requirements, particularly where new ideas and design strategies are called for and the considerable experience and imagination of our staff can be fully utilised.



**Advisory and Engineering**

Complex technical applications require usable technical solutions for the employment of sensors in conveyor systems and machine tools.

Our research and development department enables solutions to be offered to satisfy both mechanical and electrical problems encountered by our customers.

Examples of these are:

- Sensors encapsulated into special high temperature plastic housings for the protection of machine tools used in the automotive industry
- Hall sensors for use as revolution counters on machine tools



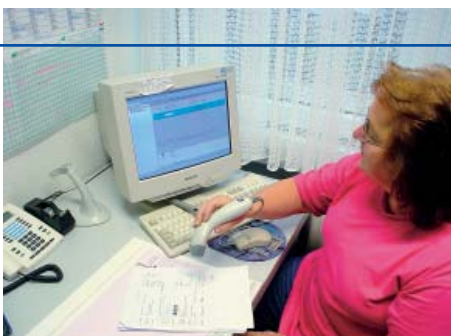
**Development work**

Basic installations in our research and development department include, testing stations, testing devices and control and monitoring equipment, all of which are used by our skilled engineers to satisfy customer requirements.



**Layout**

Design and layout of electronic circuits and systems are made using CAD/CAM software programmes to suit individual customer requirements.



**Production planning (routing)**

A PPS-System enables efficient routing. All steps of the manufacturing process beginning with material supply (material handling) and ending with the despatch (delivery) of the manufactured products are controlled by the PPS-System.



**Cable processing**

A variety of cable processing requirements and technical crimping operations are performed using latest technology automatic machinery.

Frequent checks are made to ensure the quality of these processes. These include checking the quality of the cut and de-insulated strands, the de-insulated length and height and pull out test of the crimp connectors.



**Cable cut off machine**

Small, modern, very flexible cable cutting machines capable of handling cables from AWG 32 up to AWG 12 produce very cost effective processing. Our extensive machinery enables us to process most types of cable, including single wire multicore wire, shielded cable and most types of insulation.



**Construction**

The modular design of the jig and fixture system, used in our manufacturing processes, coupled with CAD/CAM design of sensor housings and electronic module housings enables very cost effective solutions, to customers applications, to be found.



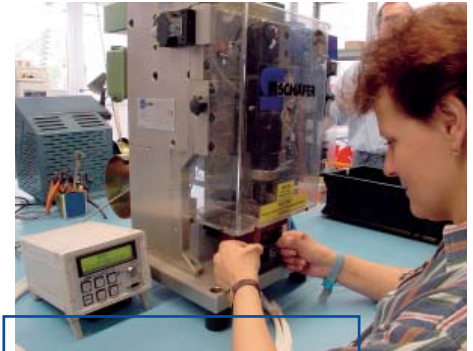
**Manual work**

Manual work by our skilled labour force is an important addition to our automated manufacturing processes.

This has the advantage of a speedy and flexible reaction to unusual customer requirements, which may not, in the

initial stages, be suitable for automated production.

Any extension to our ability to respond quickly to customer requirements is obviously welcome and this facility has proved to be invaluable.



**Crimping process**

Our cable processing machines incorporate high quality testing devices. These carry out a series of intermediate tests enabling faults to be identified before causing major production losses and optimise the safety of the process.



**Thermistor manufacturing**

The intermediate test of PTC and NTC Thermistors follows immediately after the leads have been soldered to the sensor discs. This is 100% testing of all products by a high speed computerised test system designed and built by ourselves. The special contact adaptor enables the thermistor discs to be contacted at a very great speed, thus drastically reducing test expenses. This intermediate step in our testing system identifies the validity of the soldering process. Subsequent steps in the manufacturing process are dependant on the special application requirement of the thermistors and the mechanical and electrical protection called for.



**Test laboratory**

A variety of measuring rheostats are used to detect and confirm the essential product properties by a series of readings.

The measured values of these different quality tests prove the applicability of our products, to our customers requirements. The accompanying picture shows

a measuring process which illustrates the interdependence of resistance and temperature. The results (measured values) have to meet the criteria of the required tests thus making them suitable for machine and industrial plant applications. These measuring systems and methods are used across our complete range of products.



*Electric motors*



*Trains*

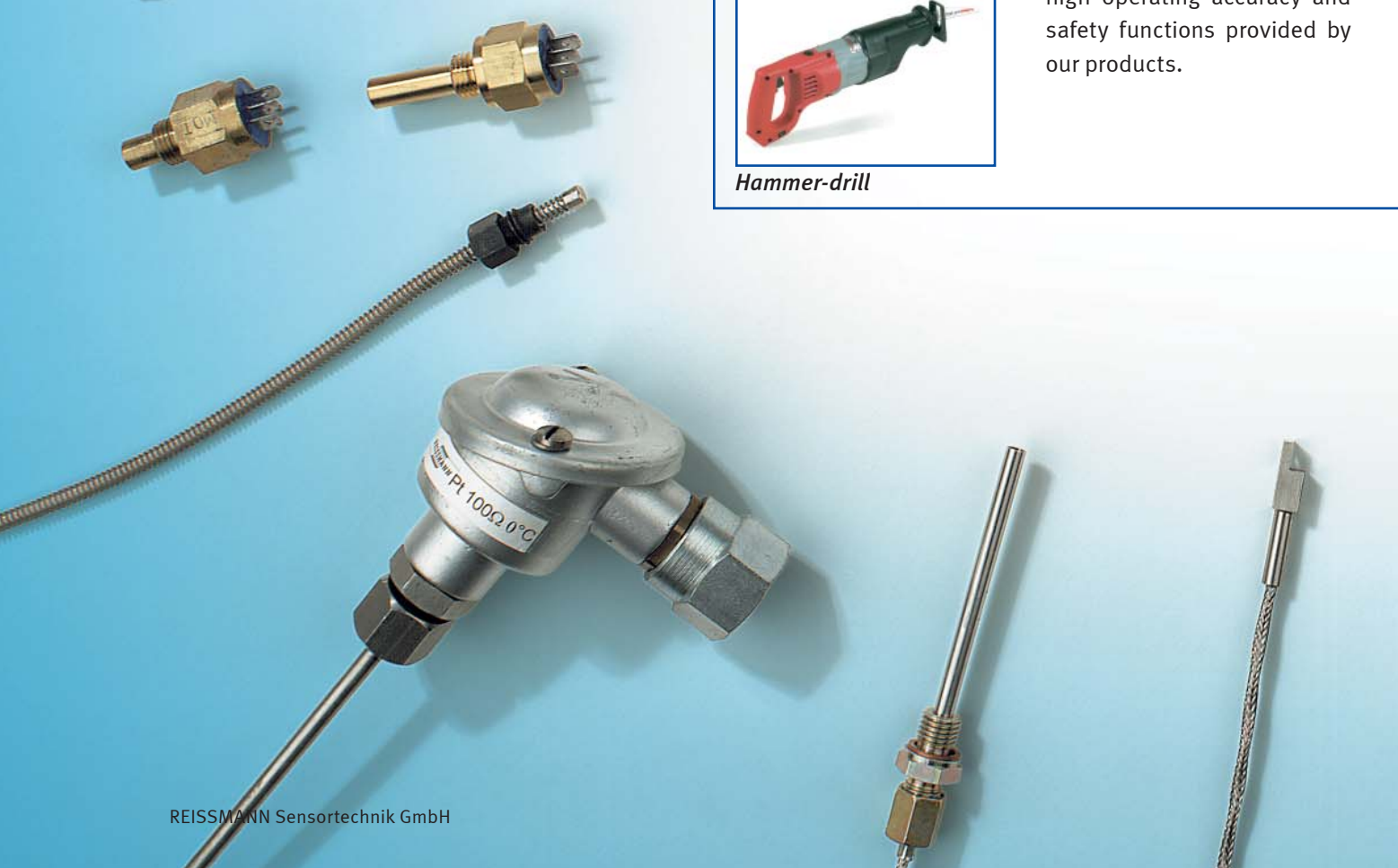


*Hammer-drill*

Multi-function units and innovative mechanical design produces products with a universal utilisation across many industries.

Examples of these industries and applications are:

drive units, machine tools, moulding machines, mineral oil conveyor, industrial trucks, lifting and conveyor systems, railway vehicles, car industry, transformers, electric generators and many more. All of these applications require the high operating accuracy and safety functions provided by our products.



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Our innovative quality management is the result of long experience and attention to detail, with the result that our standards of quality and safety have achieved world wide recognition and acceptance.



*Transformers*



*car-industrie*



*Injection machine*

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# Components for drive control and protection of switching

## Examples of applications



*Drilling platform*



*Machining station*



*Conveying plant*

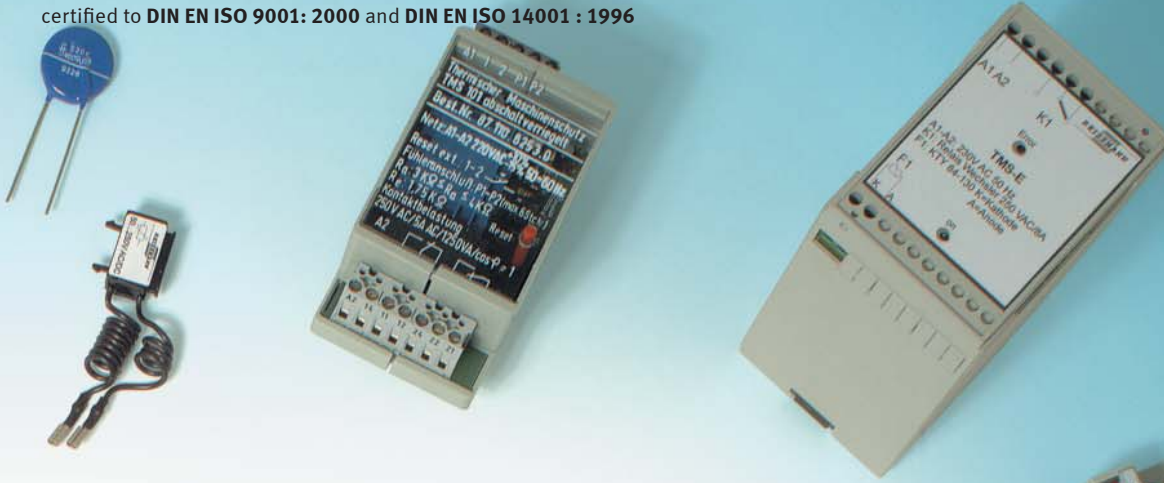
Modular protection units and controlling devices have been developed and constructed for driving machinery and switch plants.

Examples of this range are as follows:

Rectifiers with different yields (performance, power standards) for DC brakes. Dependant on the application there are rectifiers with integrated voltage relays, with additional mechanical relay contacts, or with contacts for electronic current relays to reduce brake release reaction time, which is necessary for hoisting and

*\*) Image reference: Company R. STAHL AG*

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conveyor systems, machine tools and moulding systems.

Electronic capacitor start relays for a.c. motors.

Surge protection units, spark quenchers for preventing the emission of electromagnetic fields. PTC relays in connection with PTC Thermistors and PTC-SI (KTY)-Sensors for thermal protection of machinery.

Speed or revolution counters of the inductive type or using Hall effect transducers have been proven in the machine tool- and car industries.



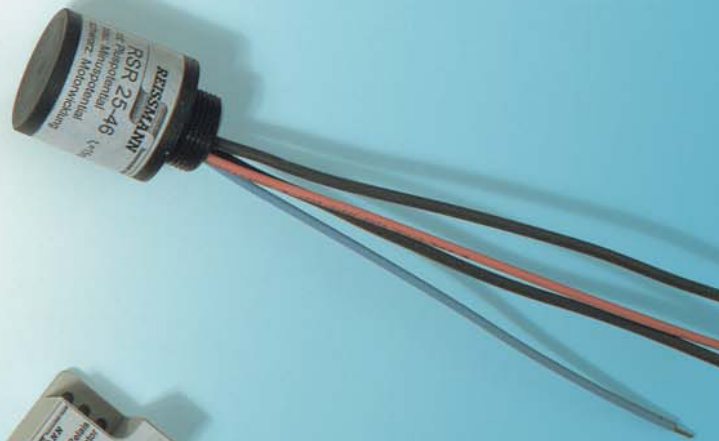
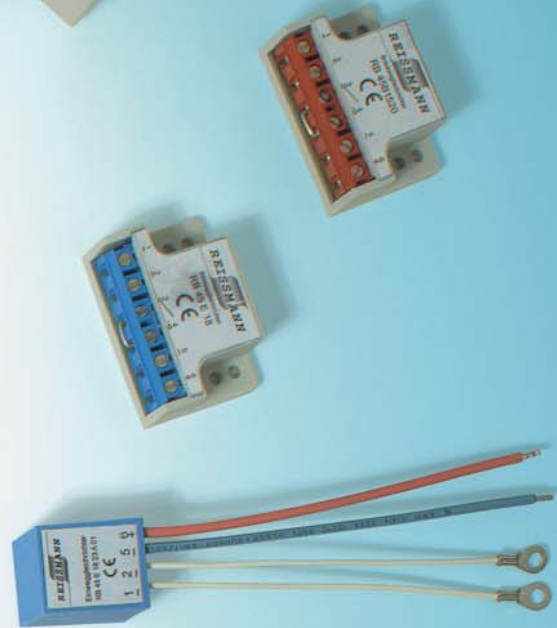
*Industrial trucks*



*switch cabinet*



*Conveying equipment*



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# Flowmeters and levelprobes

## Examples of applications



*Wind driven generators*



*Dyeing machines*

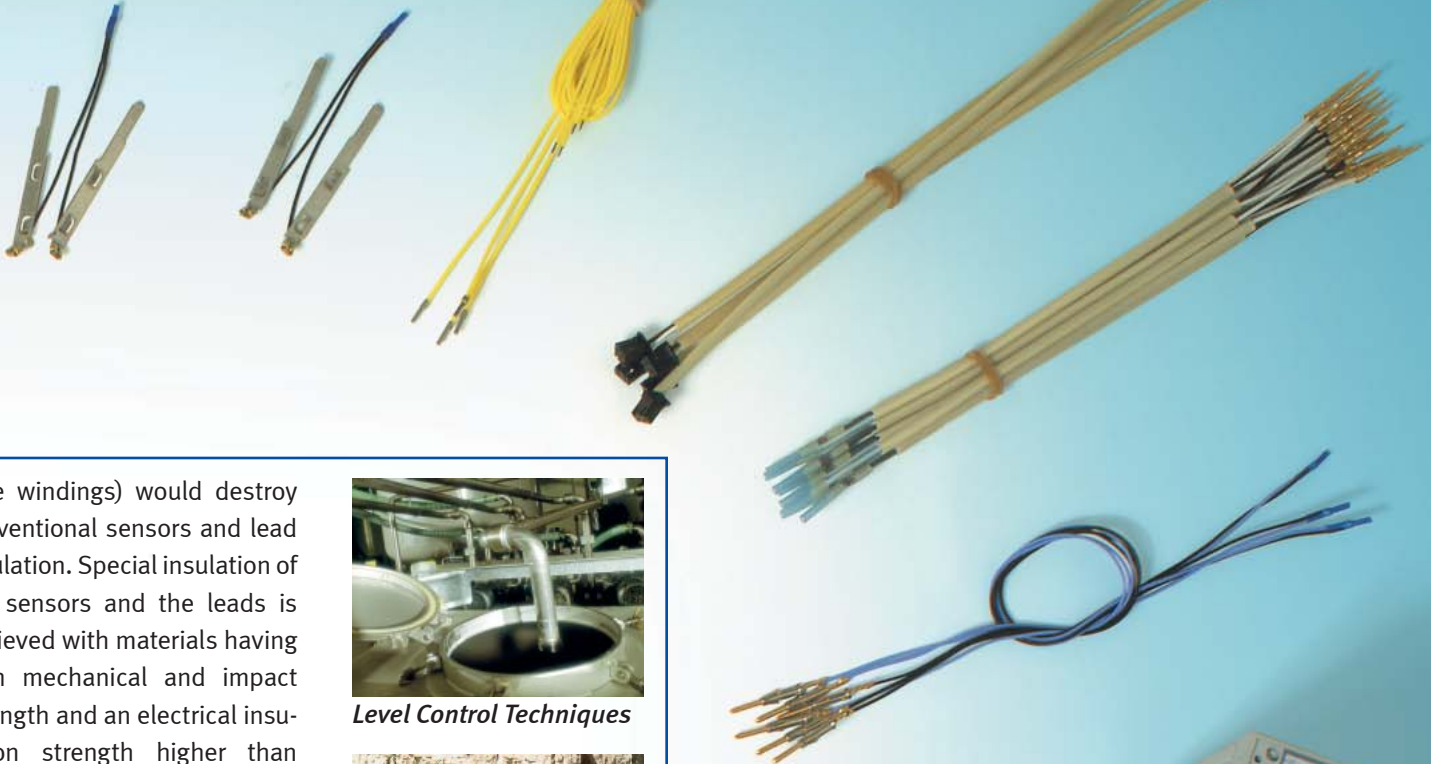


*Air-conditioning-systems*

Flowmeters and level probes, operating calorimetrically for the control of liquids and gases of various viscosities. This process is reliable even in contaminated liquids, and liquids with abrasive particles.

Specially modified temperature sensors are used for certain applications, e.g. electric motors, wind driven generators, compressors etc. where high mechanical stress (high pres-

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sure windings) would destroy conventional sensors and lead insulation. Special insulation of the sensors and the leads is achieved with materials having high mechanical and impact strength and an electrical insulation strength higher than 5000 or 8000 V.



**Level Control Techniques**



**Flow Control**



**Electric motor**



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