



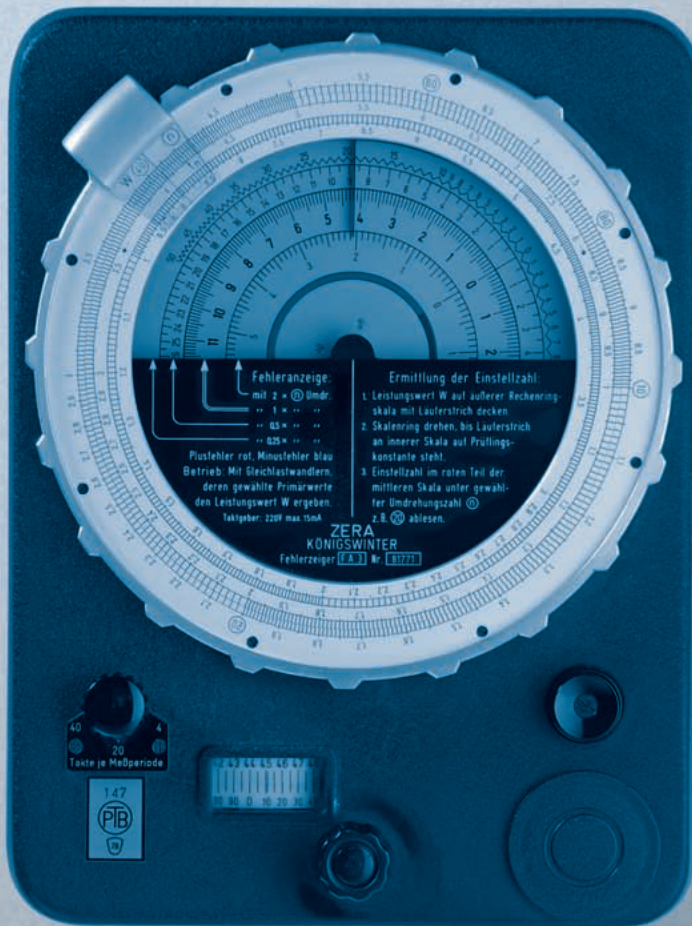
**ZERA**

Precision is Measurable



# Our Competence has Tradition

*Our business builds on the combination of specific know-how, state of the art technology, and years of experience. On this basis, we have been developing and producing test systems for many years - systems that deliver reliable and reproducible results of highest precision.*



**Electro mechanic error indicator type FA3**, about 1960-65, was used to test a dynamic meter. Desired impulses of a reference meter drive the graduated dial through a frequency motor. The dial is started and stopped by the impulses coming from the meter being tested. The difference between the desired and the observed time can be read on the graduated dial. With the circular slide-rule one can calculate the deviation of the tested meter as a percentage.

## Our Key to Success: Competence.

In our company we bring together the entire expert knowledge of electrical energy metrology, mechanical engineering, power electronics, digital technology, and software under one roof. The resulting synergies are an ideal basis for the development of high-quality precision products. We use this concentrated know-how to offer our customers test systems that are particularly productive and economic. In short: We deliver highest precision at the best cost/performance ratio.

Our employees are our capital. We know that the knowledge and skills of each and everyone of them contribute to the quality of our systems. This is why we attach great importance to our employees' vocational training and further professional development – and this does not only apply to the engineers and technicians in the team.

## Committed to Tradition.

Since our foundation in 1920, we have developed into a highly specialised company. We are leading in the field of development and production of high-grade and economical test solutions for all kinds of electricity meters and transformers. Thanks to our rich experience, we significantly drive forward the technical development of test engineering. A striking example is the comparator COM3003.

At the same time, we have maintained the ideals of our company's philosophy: quality, reliability, and closeness to the customer. We do not mean closeness in just a spatial sense, as we know our customers' business environment, their requirements, and their problems. We view your needs as if we were looking through your eyes and we develop the perfectly fitting solutions for your application.

Right from the beginning, advice and service are also fundamental. This continuous contact supports our business, as our consultants and system specialists also widen their background knowledge, which helps to further improve our services and to strengthen our market position.



Our development team sets new standards for measurement engineering.



Since 1920, the round signet stands for absolute precision.

# We are Leading the Market

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*We are committed to the quality seal 'Made in Germany' and our customers appreciate this. This is why our products have been able to prevail worldwide for a long time.*



## Innovation for Top Performances.

With our own development department we drive forward the refinement and the optimisation of test engineering. In these processes we always employ state of the art technologies. Only in doing so, we can permanently guarantee the top performances of our product range. Innovative and complete solutions that fit in seamlessly with your processes are our strength.

We use modern 3D-CAD-systems to develop optimal configurations in cooperation with you. Thus, we can include all local factors and ensure a quick and smooth integration into existing installations. With a high grade of automation we make testing more cost effective and economical. These innovative top performances do not only lead to an improvement of your productivity, but they also make a decisive contribution to the quality assurance of the results.

## Precision is Decisive.

Precise results are particularly relevant in energy and power meters. For these, you require sources and measuring systems of highest precision and stability. This is exactly the field in which ZERA was able to establish itself as a brand. Our test systems achieve highest possible accuracy classes up to a deviation of  $<0.001\%$  (10 ppm).

Such precise results are recognised worldwide: Since early in 2000, our calibration laboratory has been accredited by Deutscher Kalibrierdienst (DKD) – a certificate that is recognised by the metrological laboratories worldwide. Our system solutions are also first choice in the industry. One example: The manufacturers of electronic electricity meters that use our systems from individual test systems up to fully automatic test lines.



High precision reference standard: the ZERA comparator COM 3003.



Since 2002, ZERA is accredited by Deutscher Kalibrierdienst.

# Safety through Quality

*We know exactly our customers' needs. That is why our high-quality test systems produce the verified results you can rely on every time and throughout the world.*



## **We Provide Safety.**

We do not produce electricity meters or instrument transformers, but the test solutions for them. Therefore, we are able to guarantee our absolute neutrality in this highly sensitive field. We are consistently independent and work exclusively in our customers' interest.

Another important aspect apart from the precision is the safety of the results. Our test systems work so precisely that you can reproduce the results without deviation as often as you like. This precision and reliability create trust and customer loyalty.

## **Quality is our Strength.**

Right from the start, we consistently make sure of the best possible quality in all areas. Only in doing so, we are able to permanently develop and deliver metrological solutions for highest requirements. You profit from very good durability, cost efficiency, economy, and user friendliness of our precision products.

This customer focus and the distinct quality awareness run through all phases of our work. From the assessment of the requirements that have to be met through development, production, and testing of our solutions to delivery and installation. We answer high expectations also in service and customers' training. Thus, we can support you worldwide with the same high ZERA Quality Standard. Our engineers and technicians in Germany and in more than 50 countries around the world are taking care of this.

From their development to their manufacturing our processes are certified under ISO 9001.



*Our entire product range has a modular design. Because of this, systems can be composed flexibly according to any requirements as well as complemented and extended.*

## **Flexible in Any Way.**

Our creative development team creates individual solutions as well as universally adaptable standard products. This applies to test tasks in the ranges of low-, medium-, and high-voltage as well as high-current. In order to fully meet all customers' requirements, we offer stationary and mobile test systems in all sizes: From small hand-held devices to flexibly extendable multi station systems or fully automatic test systems for the capital goods industry.

We meet special requirements in close cooperation with our customers. E.g., we develop measuring and test systems for the test laboratories of most of the leading manufacturers of meters and leading energy distributors. Another successful area of cooperation is the development of calibration standards for quality assurance organisations as well as for national metrological institutes.

## **Modular Design.**

All elements of the modular ZERA product line can be individually arranged and configured. The wide range of flexible and adaptable components and system parts makes it possible to design a perfect solution to any requirement. There are no limits regarding size, capacity, and the option of integration into an existing installation, too.

The inherent software also has the distinction of being very flexible. It combines intuitive ease of use under Windows with comprehensive performance. All arising tasks can be performed fast, efficiently, and comfortably.



The ZERA WinSam Software - can be operated flexibly and intuitively.





**Precision Starts Here.**

Would you like general advice, do you have particular requirements or questions about our products? Here are our contact details:

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