

Values are tangible.

Much as markets have changed over the years, our corporate values have remained the same: unwavering commitment to the highest accuracy and quality standards, absolute reliability and a convincingly close relationship with our customers.

Our decades of experience have taught us much about the industry and the needs of our customers. Our engineers and consultants see problems through the customers' eyes and are developing individual, innovative solutions that can be directly integrated into the existing processes. Our quality guarantee, Made in Germany, not only applies to our systems, but also to our competent and qualified consulting and other services.

Both development and production take place in Germany, as this is where we can find our qualified team we need - from trainees to engineers. Many of them have been with us for decades, working in an environment of mutual appreciation and recognition. Forty-year anniversaries of our workers are not uncommon here. Some families have been working for us for generations. When seen from this point of view, we are a family-owned company in the true sense of the word. Each day we benefit from our staff members' willingness to make an effort and their close relationship with our company.

ZERA



Precision is Measurable.

ZERA GmbH · Hauptstraße 392 · D-53639 Königswinter
Telefon: +49 (0) 2223-704-0 · Fax: +49 (0) 2223-704-70 · www.zera.de

ZERA 90 YEARS

ZERA

www.mvvo.de 1990GB/2010

YEARS
OF PRECISION

Tradition is visible.

ZERA was established in 1920 in the town of Königswinter on the Rhine under the name of "Zähler-Eich-und-Reparatur-Anstalt Ingenieur W. Cremer". At this time, calibration was regarded as an art mastered by only a few. In those days, the meter calibrators had to pick up the meters from customers site. With its reputation for precision and innovative ideas, this new company rapidly became well known beyond Königswinter and the Bonn region.

Over a period of several decades, ZERA has changed from a service company for meter calibration into a highly specialised producer of test equipment. Our solutions have helped to shape technological developments in testing.

ZERA test systems fall into the highest possible accuracy classes and are recognised worldwide. Thus, for example, our calibration laboratory was granted accreditation by the German Calibration Service (DKD) at the beginning of 2000 - an accreditation accepted by metrological laboratories all over the world.

The extraordinary success we have achieved over the past 90 years would never have been possible without the people who gave to the company of their knowledge, ideas and passion for quality. We owe them much gratitude for this!



ZERA 90 YEARS



1920
Establishment of ZERA (Zähler- Eich- und Reparatur- Anstalt)
Business sectors: maintenance and calibration of meters, repair and sales of repaired meters. ▶

1920
ZERA through the ages



▶ Even before applying the certificate of registration, an initial contract had been concluded with the Emden City Electrical Works to maintain their electricity meters in the grid.

A view of the historical production facilities

▶ Maintenance and calibration were carried out on the customer's premises by travelling test staff. Repairs were handled by the workshop in Königswinter. ▶

One of the first test facilities at ZERA



1940

History of electricity meters



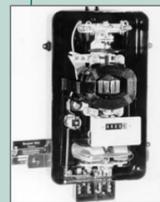
1940



1925
Rotating Watt hour meter



1930
Rotating Watt hour meter

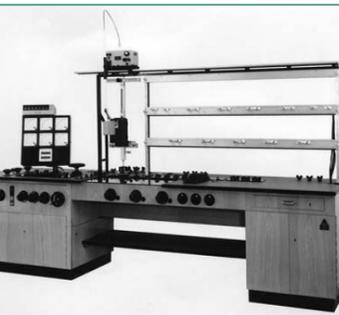


1942
Rotating Watt hour meter



An electromechanical fault indicator type FA3, used to test a dynamic meter. The difference between the set and actual time can be directly read off the dial.
1951

1950



Meter test bench with wooden housing
1955



1959
Rotating Watt hour meter



The old corporate plaque

1960



1969
Ferraris meter, dynamic; Electromechanical meter and register (mechanical drum-type register)



Meter test bench
1970

1970



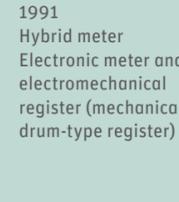
1979
Single phase meter, dynamic; Electromechanical meter and register (mechanical drum-type register)

EPZ301
The first electronic reference meter EPZ was constructed. For the first time, an accuracy of 0.1% could be achieved. The EPZ301 was installed into test benches as a unload substandard meter. The max pulse output frequency at nominal load was 9000 Hz. This means that the errors of meters under test could be measured within shortest test times.
1972

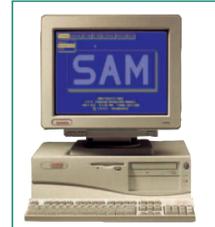
1980



ILM03
A single-phase thermal comparator, for the first time with a measuring accuracy of 0.01%.
1981



1991
Hybrid meter
Electronic meter and electromechanical register (mechanical drum-type register)



DOSSAM
The first purely digital system controls at ZERA, using a PC.
1990

1990



1994
Current transformer meter, hybrid; electromechanical meter, electronic data processing



Meter test bench
2000



COM3003
The evolution of the ILM – a highly accurate, three-phase comparator with digital technology.
1998



WinSAM
The modular structure of the software allows the test processes to be individually and accurately adapted to the meters under test.
2002



MT3000
First modular system. Developed in 2002 and received the "red dot" design award in 2004.



PPCS
The PPCS has been specially developed for metrological institutes and is used to test other high-precision reference meters or comparators. The PPCS system has a measuring accuracy of 0.001%.
2008

2000

1996
Current transformer meter, fully electronic, with a complex tariff structure

2009
Three-phase current meter, electronic; Electronic meter and register, simplified tariff structure, telecontrolled switch



ZERA entrance in Kellerstraße today



WM3000
For the first time, various current transformers can be tested with a single measuring device. 2010

2010