We take care of it.



40 Years of experience in measure and regulation technology

A. Eberle Africa (Pty) Ltd. has been an approved supplier of voltage regulation for power transformers with tap-changers – REG-D and REG-DA – for more than 25 years. These devices have been supplied directly from Germany to various systems integrators in South Africa and to Eskom (Eskom approval!) until today.

A. Eberle Germany has had a distributor of the main product portfolio in Southern Africa – Magnet Electrical Supplies (Pty) Ltd. – to support products in sales and marketing and for new business opportunities. Mr. Till Sybel, CEO of A. Eberle Germany (until end of March 2023), and CEO of A. Eberle Africa (Pty) Ltd., has decided to invest in South Africa and established, together with his friend Mr. Brian Howarth, (ex-)CEO of Magnet Electrical Supplies, preparing retirement, the new business, which is much more customer orientated.

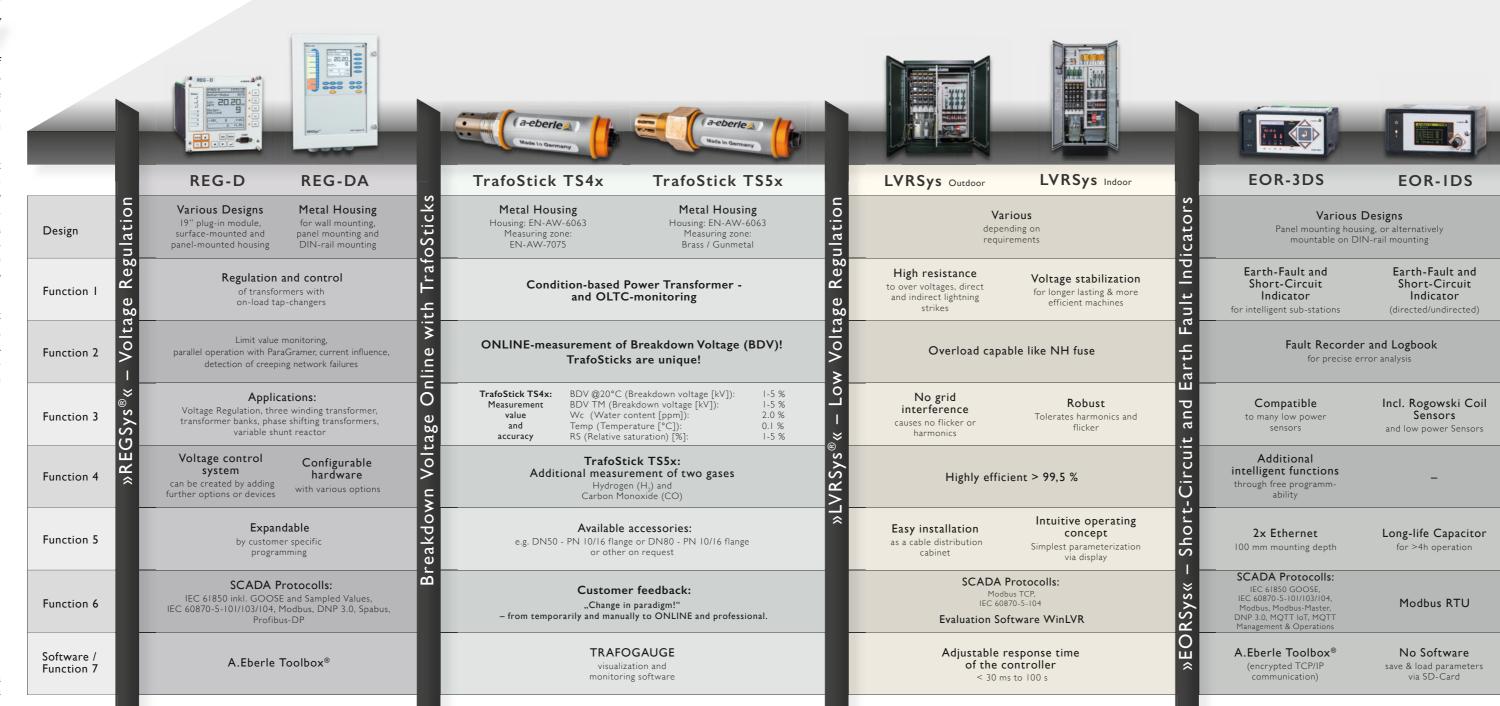
This investment aims to support not only South Africa, but the African continent in general with A. Eberle products, extended by another innovation – TrafoStick (BDV + DGA in one sensor!) – to guarantee and continuously improve the security and availability of power supply of African energy networks.



A. Eberle Africa (Pty) Ltd

Unit 5, Edstan Business Park, 2 Ibhubesi Road, Riverhorse Valley, Durban, South Africa

info@a-eberle.co.za www.a-eberle.co.za Please become a follower of our international newsletter, which is informing about product news, webinars, events and other important topics from our side by signing in: www.a-eberle.de/newsletter



We take care of it.





Measure. Regulate. Across all grids.

Shaping the grid infrastructure of tomorrow – this is our goal.

With our future-oriented solutions, we help our customers to face future challenges.

A. Eberle Africa - in Africa, for Africa.

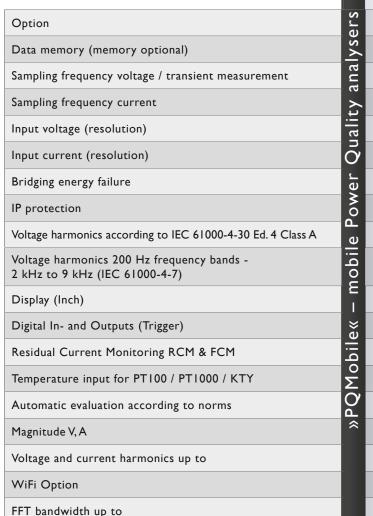
Product Overview

We take care of it.



Comparison Power Quality Tools

Easy to operate, highly accurate.







PQ-Box ONE	PQ-Box 50	PQ-Box 150	PQ-Box 200	PQ-Box 300
Basic Expert	Basic Light Expert	Basic Basic+ Light Expert	то ті	ers .
I GB	I GB	4 (32) GB	8 (32) GB	8 (32) GB
20,48 kHz / –	20,48 kHz / –	20,48 kHz / –	40,96 kHz / 4 MHz	8 (32) GB 409,60 kHz / 409,60 kHz
20,48 kHz	20,48 kHz	20,48 kHz	40,96 kHz	_
2	4 (16-bit)	4 (24-bit)	4 (24-bit)	40,96 kHz 4 (24-bit) 5 (24-bit)
4	4 (16-bit)	4 (24-bit)	5 (24-bit)	•
-	1,5 h	4,0 h	4,0 h 3,5 h	3,5 h IP65
IP30	IP65	IP65	IP65	IP65 O
•	- •	- • •	•	
-	-		•	• (accessories) • (accessories)
-	_	• (4,5)	• (4,5)	• (4,5)
-	_	-	1/0	1/0
-	_	-	• (accessories)	• (accessories)
-	-	-	• (accessories)	• (accessories)
•	- •	- • •	•	· ×s
< 0,1 %	< 0,1 %	< 0,05 %	< 0,05 %	< 0,05 %
H50	H50	9 kHz	20 kHz	I 60 kHz
•	•	•	•	•
– 10 kHz	10 kHz	10 kHz	20 kHz	170 kHz



PQI-LV

Low Voltage





PQI-DE



Voltage Level Voltage Level Voltage Level Low, Medium Low, Medium and High Voltage and High Voltage

PQI-DA smart

Application Depth of the grid, Industrial power grids,

Retrofits

10.24 kHz /

Optional 40.96 kHz (BI)

Application Point of Common Coupling, Point of Connection, Secondary substations, Industrial applications

Application Substations. Industrial applications, Grid code compliance, High precision frequency measurements, Residual Current Monitoring

10.24 kHz /

Optional 40.96 kHz (BI)

SCADA - License Options IEC 60870-5-104 (PI), IEC 61850 (P2), Modbus Master (P3) MQTT

> IT Security Radius, RBAC, URM, encrytion

Memory

I GB ~ 140 weeks with stadard template				
Voltage Measurement Direct 230/400/690 V	Voltage Measurement Direct and transducer measurement 100/230/400/690 V	Voltage Measurement Direct and transducer measurement, Small signal transducer (E3) 3.25/100/230/400/690 V		
Current Measurement Rogowski coils & current sensors 350 mV input	Current Measurement 1/5 A measuring transformer (C30) 1/5 A protection transformer (C30) Rogowski coils (C40) Sensor technology (C44) DC (C45)	Current Measurement 1/5 A measuring transformer (C30) 1/5 A protection transformer (C30) Rogowski coils (C40) Mini current clamps (C44) DC (C45)		
Fault Recorder / Transient Recorder Optional	Fault Recorder / Transient Recorder	Fault Recorder / Transient Recorder		
Digital Inputs / Outputs (Triggers and Alarms)	Digital Inputs / Outputs (Triggers and Alarms)	Digital Inputs / Outputs (Triggers and Alarms)		
Measurement: 4x Voltage, 4x Current	Measurement: 4x Voltage, 4x Current	Measurement: 4x Voltage, 4x Current		

10.24 kHz /

Optional 40.96 kHz (BI)

With the new »I-Sense« technology for our fixed installed power quality analysers PQI-LV, PQI-DE & POI-DA smart, it is now possible to measure feeder current in the secondary substation securely, easily and economically for up to 16 feeders. The installation is easy and quick using Rogowski coils and, in addition to current measurement in the feeders, the system also offers the option of highly sophisticated power quality monitoring at the secondary substation transformer.

We take care of it.



»PQSys« - Software

»WebPQ®«

The central database solution for all fault recorders, power quality monitoring devices and mobile grid analysers from A. Eberle. Permanent power quality monitoring – from high voltage to the depths of the grid in one system. Intuitive operation and fast navigation for analysing your measurement data.

- Simultaneous parallel reading of all devices. This ensures a fast system response time.
- Automatic reporting for fault records and power quality reports with measuring point principle.
- Drill-in evaluation process recognise trends with a click of the mouse.



»PQMobile« - Software

»WinPQ mobile«

- Extensive evaluation functions such as load analysis or the ability to determine the cause of network faults
- Automatic report creation to preset or freely adjustable standard settings
- Free software and free updates of the evaluation software and device firmware

PQ-Box App for Android and iOS

A free app for Android and iOS operating systems allows all PQ-Boxes with integrated WLAN/WiFi interfaces to be operated wirelessly. All measuring devices can also be parameterised very easily using smartphone or tablet.







