

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

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REG-D

REG-DA

REG-DN®

Various Designs
19" plug-in module,
surface-mounted and
panel-mounted housing

Metal Housing
for wall mounting housing,
Panel mounting housing
and din-rail mounting

Regulation and control
of transformers with
on-load tap-changers

Limit value monitoring,
parallel operation with ParaGramer, current influence,
detection of creeping network failures

Applications:
Voltage Regulation, three winding transformer,
transformer banks, phase shifting transformers,
variable shunt reactor

Voltage control
system
can be created by adding
further options or devices

Configurable
hardware
with various options

Expandable
by customer specific
programming

SCADA Protocols:
IEC 61850 inkl. GOOSE and Sampled Values,
IEC 60870-5-101/103/104, Modbus,
DNP 3.0, Spabus, Profibus-DP

AEToolbox / WinREG

»REGSys®« – Voltage Regulation

REG-DN® market launch soon (Q3-2026)!



TrafoStick TS G1

TrafoStick TS G2

TrafoStick TS G4

TrafoStick TS G5

Housing: Stainless steel 1.4571
Mechanical connection:
G1" EN ISO 228-1 connector
(Parker RIIEDX3/471)
Housing classification:
IP68

Housing: Stainless steel 1.4571
Mechanical connection:
G1" EN ISO 228-1 connector
(Parker RIIEDX3/471)
Housing classification:
IP68

Housing: EN-AW-6063
Mechanical connection:
G1" EN ISO 228-1
Housing classification:
IP68

Housing: EN-AW-6063
Mechanical connection:
G1" EN ISO 228-1
Housing classification:
IP68

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Breakdown Voltage
BDV - [kV]

Breakdown Voltage
BDV - [kV]

Breakdown Voltage
BDV - [kV]

Supported Measurement Values
Temperature TM - [°C / °F]
Humidity RS - [%]
Pressure P - [kPa / psi]
Water Content W_C - [ppm]**

Additional
Measurement Values
Hydrogen Content H₂ - [ppm]
Hydrogen Content H₂ - [ppm]

Additional
Measurement Values
Hydrogen Content H₂ - [ppm / %]
Accelerometer GF - [g]*,
Shows & reveals unexpected events e.g.
earthquakes, vandalism, sudden impacts

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Additional
Measurement Values
Hydrogen Content H₂ - [ppm / %]
Carbon Monoxide CO - [ppm / %]
Acetylene C₂H₂ - [ppm / %]*

PD Indicator
Suitable for
Partial Discharge Detection

PD Indicator
Suitable for
Partial Discharge Detection

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Black Box Memory*
Up to 5 years of data
logging

Black Box Memory*
Up to 5 years of data
logging

–

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Communication
MODBUS RTU / RS485

Communication
MODBUS RTU / RS485

Communication
MODBUS TCP/IP (IoT)

Communication
MODBUS TCP/IP (IoT)

Power Supply
7.5V – 36V DC
(12V DC or 24V DC with
backup battery pack
recommended)

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Power Supply
7.5V – 36V DC
(12V DC or 24V DC with
backup battery pack
recommended) with special
MODBUS cable

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»LVRSys®« – Low Voltage Regulation

»REGSys®« – Voltage Regulation



LVRSys Outdoor

LVRSys Indoor

Various Designs
depending on
requirements

High resistance
to over voltages, direct
and indirect lightning
strikes

Voltage stabilization
for longer lasting & more
efficient machines

Overload capable like NH fuse

No grid
interference
causes no flicker or
harmonics

Robust
Tolerates harmonics and
flicker

Highly efficient > 99,5 %

Easy installation
as a cable distribution
cabinet

Intuitive operating
concept
Simplest parameterization
via display

Adjustable response
time of the
controller
< 30 ms to 100 s

Immediate
regulation
< 30 ms response time

Operating Temperature
-40°C up to +50°C
ambient temperature

»LVRSys®« – Low Voltage Regulation



EOR-3DS

EOR-IDS

Various Designs
Panel mounting housing,
or alternatively mountable
on DIN rail mounting

Various Designs
Panel mounting housing,
or alternatively mountable
on DIN rail mounting

Earth-Fault and
Short-Circuit
Indicator
for intelligent sub-stations

Earth-Fault and
Short-Circuit
Indicator
(directed/undirected)

Fault Recorder and Logbook
for precise error analysis

Compatible
to many low power
sensors

Incl. Rogowski Coil
Sensors
and low power Sensors

Additional
intelligent functions
through free programm-
ability

–

2x Ethernet
100 mm mounting depth

Long-life Capacitor
for >4h operation

SCADA Protocols:
IEC 61850 GOOSE,
IEC 60870-5-101/103/104,
Modbus, Modbus-Master,
DNP 3.0, MQTT IoT, MQTT
Management & Operations

Modbus RTU

AEToolbox
(encrypted TCP/IP
communication)

No Software
save & load parameters
via SD-Card

»EORSys®« – Short-Circuit and Earth Fault Indicators

We take care of it.

a-eberle

Africa

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.

Option	Expert	Basic	Light	Expert	Basic	Basic+	Light	Expert	T0	T1
Data memory (memory optional)	1 GB	1 GB			32 GB				32 GB	
Sampling frequency voltage / transient measurement	40,96 kHz / –	20,48 kHz / –			20,48 kHz / –				40,96 kHz / 4 MHz	409,60 kHz / 409,60 kHz
Sampling frequency current	40,96 kHz	20,48 kHz			20,48 kHz				40,96 kHz	40,96 kHz
Input voltage (resolution)	2	4 (16-bit)			4 (24-bit)				4 (24-bit)	4 (24-bit)
Input current (resolution)	1	4 (16-bit)			4 (24-bit)				5 (24-bit)	5 (24-bit)
Bridging energy failure	30 sec	1,5 h			4,0 h				4,0 h	3,5 h
IP protection	IP30	IP65			IP65				IP65	IP65
Voltage harmonics according to IEC 61000-4-30 Ed. 3 Class A	•	–	•	•	–	•	•	•	•	•
Voltage harmonics 200 Hz frequency bands - 2 kHz to 9 kHz (IEC 61000-4-7)	•	–			–	–	–	•	•	•
Display (Inch)	–	–			• (4,5)				• (4,5)	• (4,5)
Digital In- and Outputs (Trigger)	–	–			–				I/O	I/O
Residual Current Monitoring RCM & FCM	–	–			–				• (accessories)	• (accessories)
Temperature input for PT100 / PT1000 / KTY	–	–			–				• (accessories)	• (accessories)
Automatic evaluation according to norms	•	–	•	•	–	•	•	•	•	•
Magnitude V, A	< 0,1 %	< 0,1 %			< 0,05 %				< 0,05 %	< 0,05 %
Voltage and current harmonics up to	9 kHz	H50			9 kHz				20 kHz	160 kHz
WiFi Option	•	•			•				•	•
FFT bandwidth up to	20 kHz	10 kHz			10 kHz				20 kHz	160 kHz

»PQMobile« – mobile Power Quality analysers

										
PQ-Box ONE		PQ-Box 50		PQ-Box 150				PQ-Box 200		PQ-Box 300
Expert	Basic	Light	Expert	Basic	Basic+	Light	Expert	T0	T1	
1 GB	1 GB			32 GB				32 GB		32 GB
40,96 kHz / –	20,48 kHz / –			20,48 kHz / –				40,96 kHz / 4 MHz		409,60 kHz / 409,60 kHz
40,96 kHz	20,48 kHz			20,48 kHz				40,96 kHz		40,96 kHz
2	4 (16-bit)			4 (24-bit)				4 (24-bit)		4 (24-bit)
1	4 (16-bit)			4 (24-bit)				5 (24-bit)		5 (24-bit)
30 sec	1,5 h			4,0 h				4,0 h	3,5 h	3,5 h
IP30	IP65			IP65				IP65		IP65
•	–	•	•	–	•	•	•	•		•
•	–			–	–	–	•	•		•
–	–			• (4,5)				• (4,5)		• (4,5)
–	–			–				I/O		I/O
–	–			–				• (accessories)		• (accessories)
–	–			–				• (accessories)		• (accessories)
•	–	•	•	–	•	•	•	•		•
< 0,1 %	< 0,1 %			< 0,05 %				< 0,05 %		< 0,05 %
9 kHz	H50			9 kHz				20 kHz		160 kHz
•	•			•				•		•
20 kHz	10 kHz			10 kHz				20 kHz		160 kHz

»PQSys« – fixed-installed Power Quality analysers

PQI-LV	PQI-DA smart	PQI-DE
Low Voltage	Low-, Medium-, High Voltage	
> 2 years	> 2 years	> 2 years
40,96 kHz / 40 kHz	40,96 kHz / 40 kHz	40,96 kHz / 40 kHz
40,96 kHz optional	40,96 kHz optional	bis zu 40,96 kHz
4 (16-bit)	4 (16-bit)	4 (16-bit)
4 (16-bit)	4 (16-bit)	5 (16-bit)
Supercap	Supercap	Supercap
IP20	IP20	IP54
•	•	•
2 - 20 kHz	2 - 20 kHz	2 - 20 kHz
n.A.	• (1,7)	• (5,0)
n.A.	2/2	8/4
–	–	•
–	–	•
•	•	•
< 0,1 %	< 0,05 %	< 0,05 %
2 - 20 kHz	2 - 20 kHz	2 - 20 kHz
–	–	–
20 kHz	20 kHz	20 kHz

With the new »I-Sense« technology for our fixed installed power quality analysers **PQI-LV**, **PQI-DE** & **PQI-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.

P-Sense 4 (current sensor) and V-Sense (voltage sensor) for the measurement of active/reactive power of feeders in minisubs.

Market launch soon (Q3-2026)!

Do you have any questions or do you need advice on our technical solutions?
Please feel free to contact us under info@a-eberle.co.za

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.

