

MESSKO® MTRAB® 2.5

Maintenance-free dehydrating breather

reinhausen.com



Maximum protection against moisture – proven 100,000 times over

Ever longer operating times and ever higher current densities lead to constantly increasing demands on operating equipment. The maintenance-free MESSKO® MTRAB® 2.5 dehydrating breathers continuously dehumidify and monitor the breathing cycle of power transformers – in all climatic zones. They regenerate themselves. This ensures maximum operating times and safety, and also massively reduces costs. The MESSKO® MTRAB® 2.5 devices have been proven over 100,000 times worldwide. The intelligent algorithm ensures that the IEC 60076-22-7 standard is complied with at all times (standard for transformer accessories – self-regenerating dehydrating breathers).

Effective operating principle

In normal operation, the air flowing to the oil expansion tank is routed over the drying agent (silica gel) and dried in the process. The humidity level of the air in the pipeline to the expansion tank is permanently monitored. If the moisture content (% RH) reaches the defined limit, the regeneration of the desiccant is activated depending on the behavior of the equipment.

MESSKO® MTRAB® for optimized operation

- Data logger incl. software (software optional)
- Extended overvoltage protection in accordance with EN 60664-1 Category III
- Protection class IP 66/IP67
- Corrosion protection in accordance with C4H, C5H or CX according to IEC12944
- Test button for manual testing of function, moisture at the device output and alarm chains (included as standard)
- Direct connection to monitoring and SCADA systems
- Prepared for integration into ETOS® (optional)

Your advantages at a glance

- + Reduces operating costs and increases operational reliability
- + Actively protects the insulation medium against humidity
- + Condition-dependent and self-learning algorithm
- + Significantly higher efficiency than market competitors
- + Easy to integrate into ETOS® – Embedded Transformer Operating System
- + Simple to retrofit on existing equipment
- + Successful around the world in accordance with IEC 60076-22-7
- + Offshore version (optional)
- + Filter heating (optional)
- + Extended surge protection (optional)
- + Modbus RTU via RS485 (optional)



MESSKO® MTRAB® 2.5 – application table

Application	Type	Silica gel
Tap changers	DB100	1.1 kg
Arc suppression coil (Petersen coil)		
Air-filled cable boxes		
Vehicle transformers		
Network transformers ≤ 40 MVA	DB100T	1.1 kg
Phase shifters ≤ 40 MVA		
Reactors ≤ 40 MVA _r		
Network and step-up transformers 40 ... 200 MVA	DB200T	2.2 kg
Phase shifters 40 ... 200 MVA		
Reactors 40 ... 200 MVA _r		
Network shell transformers n > 200 MVA	DB200D-T	4.4 kg
Phase shifters > 200 MVA		
Reactors > 200 MVA _r		
High voltage DC transmission (HVDCT) transformers	DB200G	4.4 kg
Furnace transformers		
Underground hall transformers		
GSU machine transformers		

→ [More information](#)

MESSKO® MTRAB® 2.5



Reliable and highly effective

- Maintenance-free operation in 24/7 mode
- Proven over many years in all climates: Hot, cold, dry or humid



Reduces maintenance and service costs

- No inspection and maintenance costs – unlike conventional dehumidifiers
- Massive cost savings as desiccant does not need to be replaced



Proven quality with the latest technology

- 6,500 MESSKO® MTRAB® customers in 180 countries
- More than 20 years of field experience
- Developed and tested in accordance with IEC 60076-22-7 (standard for transformer accessories – self-regenerating breathers)



Communication and integration in ETOS®

- Easy integration into ETOS® Embedded Transformer Operating System
- SCADA connection via analog and digital interfaces



Ensures the health of your transformer

- Ensures transformer function
- Guarantees long equipment service life
- Protects investments and assets

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Please note:

The data in our publications may differ from the data of the devices delivered.

We reserve the right to make changes without notice.

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THE POWER BEHIND POWER.