



# MESSKO® MTRAB® 2.5

PROVEN TECHNOLOGY AND  
WORLDWIDE PRACTICAL EXPERIENCE.

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# GROUND-BREAKING TECHNOLOGY WITH RELIABLE FUNCTION AND DIGITAL DATA INTERFACE.

The maintenance-free breathers of the MESSKO® MTRAB® 2.5 product family eliminate moisture ingress into the insulating fluid of transformers, on-load tap-changers and other electrical equipment filled with insulating fluid. And they are now available with a new app function which enables easy readout of data.

## Active prevention of moisture ingress into operating fluids

Ever longer operating times and ever higher current densities lead to constantly increasing demands on the equipment. The maintenance-free MTRAB® dehydrating breathers continuously dehumidify and monitor the breathing cycle of power transformers – in all climate zones. And they regenerate themselves, which ensures maximum operating time and security and massively reduces costs. The MTRAB® units have been proven 90,000 times worldwide. An intelligent algorithm ensures continuous compliance with the IEC 60076-22-7 standard (new standard for transformer accessories – self-regenerating breathers).



## Simply effective operating principle

In normal operation, the air flowing to the oil expansion vessel is dried by passing it over a desiccant (silica gel) and the moisture content of the air in the pipe to the expansion tank is constantly monitored. When the moisture content (% rH) reaches the defined limit value, regeneration of the desiccant is activated, depending on the behavior of the operating equipment.

## Overview of application recommendations and product types for MESSKO® MTRAB® 2.5

Application	Tap changer	Arc suppression coil (Petersen coil)	Air-filled cable boxes	Vehicle transformers	Network transformers ≤ 40 MVA	Network and step-up transformers > 40 MVA ≤ 200 MVA	Network shell transformers > 200 MVA	Phase shifters ≤ 40 MVA	Phase shifters > 40 MVA ≤ 200 MVA	Phase shifters > 200 MVA	Reactors ≤ 40 Mvar	Reactors > 40 Mvar ≤ 200 Mvar
Type	DB100	DB100	DB100	DB100	DB100T	DB200T	DB200D-T	DB100T	DB200T	DB200D-T	DB100T	DB200T
Silica gel	1.1 kg	1.1 kg	1.1 kg	1.1 kg	1.1 kg	2.2 kg	4.4 kg	1.1 kg	2.2 kg	4.4 kg	1.1 kg	2.2 kg



MESSKO® MTRAB® 2.5 DB100



MESSKO® MTRAB® 2.5 DB200



MESSKO® MTRAB® 2.5 DB200D

### Your advantages at a glance

- Reduced operating costs and increases operating reliability
- Active protection of the insulation medium against moisture
- Condition-dependent and self-learning algorithm
- Significantly higher efficiency than market competitors
- Easy to integrate into ETOS® (Embedded Transformer Operating System)
- Easy retrofitting to existing operating equipment
- Worldwide successful and fit for the future in accordance with IEC 60076-22-7
- Easy data readout using the MESSKO® MTRAB® app

### Customization possible

- Offshore design
- Filter heating
- Extended overvoltage protection
- Modbus RTU via RS48

### Features of the MESSKO® MTRAB® 2.5

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

Reactors > 200 MVar	High voltage DC transmission (HVDCT) transformers	Furnace transformers	Underground hall transformers	GSU machine transformers
DB200D-T	DB200D-T	DB200G	DB200G	DB200G
4.4 kg	4.4 kg	2.2 kg	2.2 kg	2.2 kg



More info:  
MESSKO® MTRAB® 2.5

# MESSKO® MTRAB® 2.5 – HIGHLIGHTS AT A GLANCE.



## Reliable and highly effective

- Maintenance-free operation in 24/7 mode
- Proven over many years in all climates: Heat, 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 15 years of field experience
- Developed and tested in accordance with IEC 60076-22-7 (new standard for transformer accessories – self-regenerating breathers)
- Easy viewing of data using the MESSKO® MTRAB® app



## Communication and integration in ETOS®

- Easy integration into MR's 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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