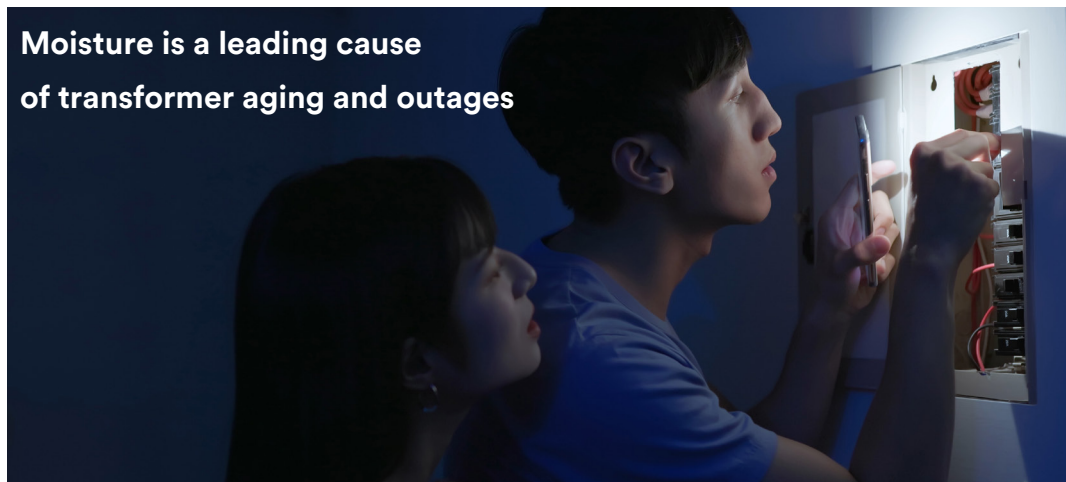


Self-dehydrating breathers

A proven technology supporting you throughout the entire transformer lifecycle



Moisture is a leading cause of transformer aging and outages

Extend your transformers' lifetime by protecting it from moisture intake with our self-dehydrating breathers, type eSDB. Whether you are managing asset health remotely or on-site, our eSDB breathers provide continuous protection.

Product highlights at a glance:

- Compact, robust, and lightweight design
- No external wires
- Double-tank in all models
- Condition-based regeneration cycle
- User-friendly interface and connectivity features
- Advanced service and maintenance capability



Why buy?

Transformer safety:

- Proven technology for safe transformer operation
- Double tank in all models for uninterrupted device performance
- Condition-based automatic silica gel regeneration extends the breather's life and maintains its optimal dehydrating performance

Serviceability:

- Easy installation and maintenance
- Easily replaceable silica gel on-site in case of oil contamination due to leakage
- USB-A data logger and added connectivity features for comprehensive data collection & easy firmware upgrades, no need for additional equipment - PC or cables
- Easy device management from remote

Remote monitoring and control:

- Remote control signals through common communication protocols
- Continuous monitoring of temperature, humidity, and silica gel status

We cover a wide selection of applications with only 4 models: eSDB XS, S, M, & L .

Selection matrix:

Type:	eSDB XS				eSDB S			eSDB M				eSDB L						
Quantity of oil	≤ 40t				≤ 40t			40 ≤ 80t				≥ 100t						
Application	OLTC	Peterson coil	Cable boxes	Traction	Condition based	Phase shifting <60 MVA	Shunt reactors <60 MVA	Network ≥60 MVA ≤200 MVA	Phase shifting ≥60 MVA ≤200 MVA	Shunt reactors ≥60 MVA ≤200 MVA	Step up ≥60 MVA ≤200 MVA	Generator and network >200 MVA	Phase shifting >200 MVA	Shunt reactors >200 MVA	HVDC	Furnace	Cavern	GSU

Technical features at a glance:

Material	All the external part are resistant to transformer oils, salt fog and UV rays – Treated aluminum and stainless steel
Installation environment	Indoor/Outdoor/Tropical proof Corrosion class: C5-Medium: Grey coating + RAL 9006 (Body) Offshore (on request) Corrosion class: C5-High/CX: RAL 7035
Ambient temperature	From -40 °C to 80 °C (from -40 °F to 176 °F)
Degree of protection	IP55 according to EN 60529
Degree of protection of terminal box	IP65 according to EN 60529
Desiccant	Colorless, non-poisonous Silicagel; amount according model
Ventilation valve	To prevent the formation of condensation
Cable glands	2 x M25x1.5
Functional test	Standard
Rated Voltage – Power supply	From 115 to 230 V ac/dc ± 10% 50/60 Hz
Overvoltage protection	Standard (replaceable varistor and fuse)
Heating element protection	Standard (replaceable fuse)
Redundancy	Double feedback signal - Load cell and Humidity sensor for M & L type
Display	User-friendly – Quick access menu
Current consumption	In-rush current < 10 A – Maximum current during regeneration < 3 A
Recommended wires	Power supply: 14 AWG Relays: 18 AWG Analog outputs: 2 x 18 AWG (shielded twisted cable) Digital outputs: - Modbus RTU - 2 x 18 AWG shielded twisted cable - Modbus TCP/IP - Category 5e straight cable
Analog outputs	2 x 4 – 20 mA
Digital outputs	Modbus RTU – Modbus TCP/IP – Data logger
Flange type	DIN & EN flange



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COMEM SpA

Localita' Signolo 22, SR11
36054 Montebello
Vicentino
Vicenza - Italy
Tel +39 0444 449 311