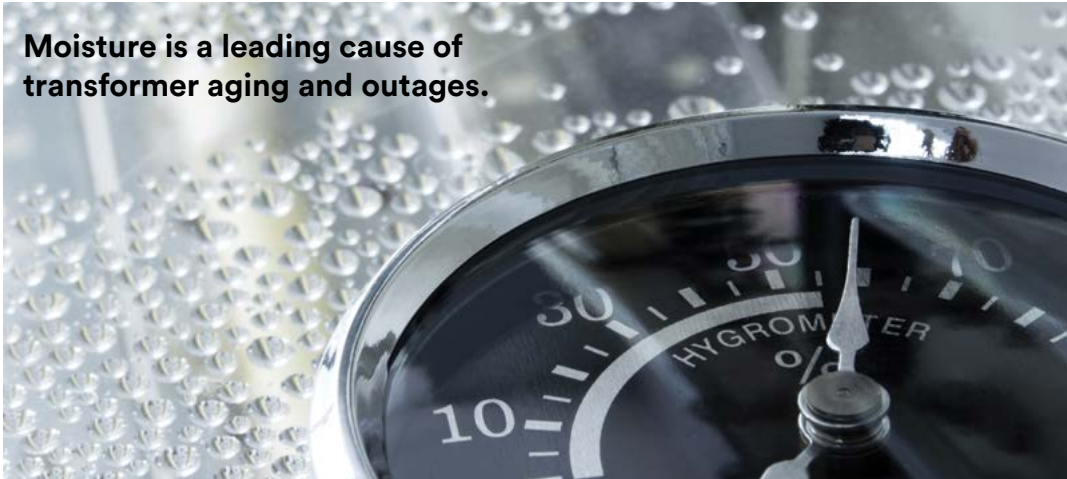


Self-dehydrating breathers, type eSDB XS-S-M-L

A proven technology supporting you throughout the entire transformer lifecycle

Moisture is a leading cause of transformer aging and outages.



The transformer life can be maximized by controlling moisture intake. By choosing our breathers, type eSDB, your transformer will be continuously secured from moisture intake. You can collect data required for your transformer health management remotely or on-site.

What's new?

- New design: Compact, Robust, Lighter
- Full Stand Alone without external wires
- Full Condition-based double tanks
- New users' interface and connectivity features
- Advance service and maintenance capability



Why buy?

Transformer safety:

- Proven technology assures safe transformer operation
- Integrated innovative features facilitate the device management and enable remote control
- The presence of a double tank in all models guarantees uninterrupted continuous automatic silica gel regeneration
- Condition-based regeneration cycle secures longer lifetime and good dehydrating performance of the breather

Serviceability:

- Robust and compact design with no external wires for easy installation and maintenance
- If the silica gel in the breather is contaminated with oil leakage during the transformer installation, the salt is easily replaceable on site
- USB-A data logger and added connectivity features enable full control over the data collection from the device and make firmware upgrade easy for the user, additional cable or notebook not needed

Remote monitoring and control:

- Possibility to remote the control signals through common communications protocols
- Temperature, humidity, and silica gel status continuously monitoring

With only 4 models, we cover the full range of applications.

Selection matrix:

eSDB	XS				S			M				L						
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
Four types of installation environment	Indoor/Outdoor/Tropical proof Corrosion class: C5-Medium Grey Coating Offshore Corrosion class: C5-High / CX RAL 7035 (on request)
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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