

## FORTUNE Transformer Smart Accessories

2021  
Taiwan Innotech Expo  
**GOLD AWARD**



Core Current Detector

2020 Taiwan Innotech Expo  
**GOLD AWARD**



Self-Dehydrating Breather



Smart Remote Terminal Unit

## FORTUNE Advantaged Products



Photovoltaic Box, PV BOX



Electric Vehicle  
AC Charging Equipment



Cooling Fan Variable-Frequency  
Energy Saving Control System  
for a Power Transformer

## Self-Dehydrating Breather



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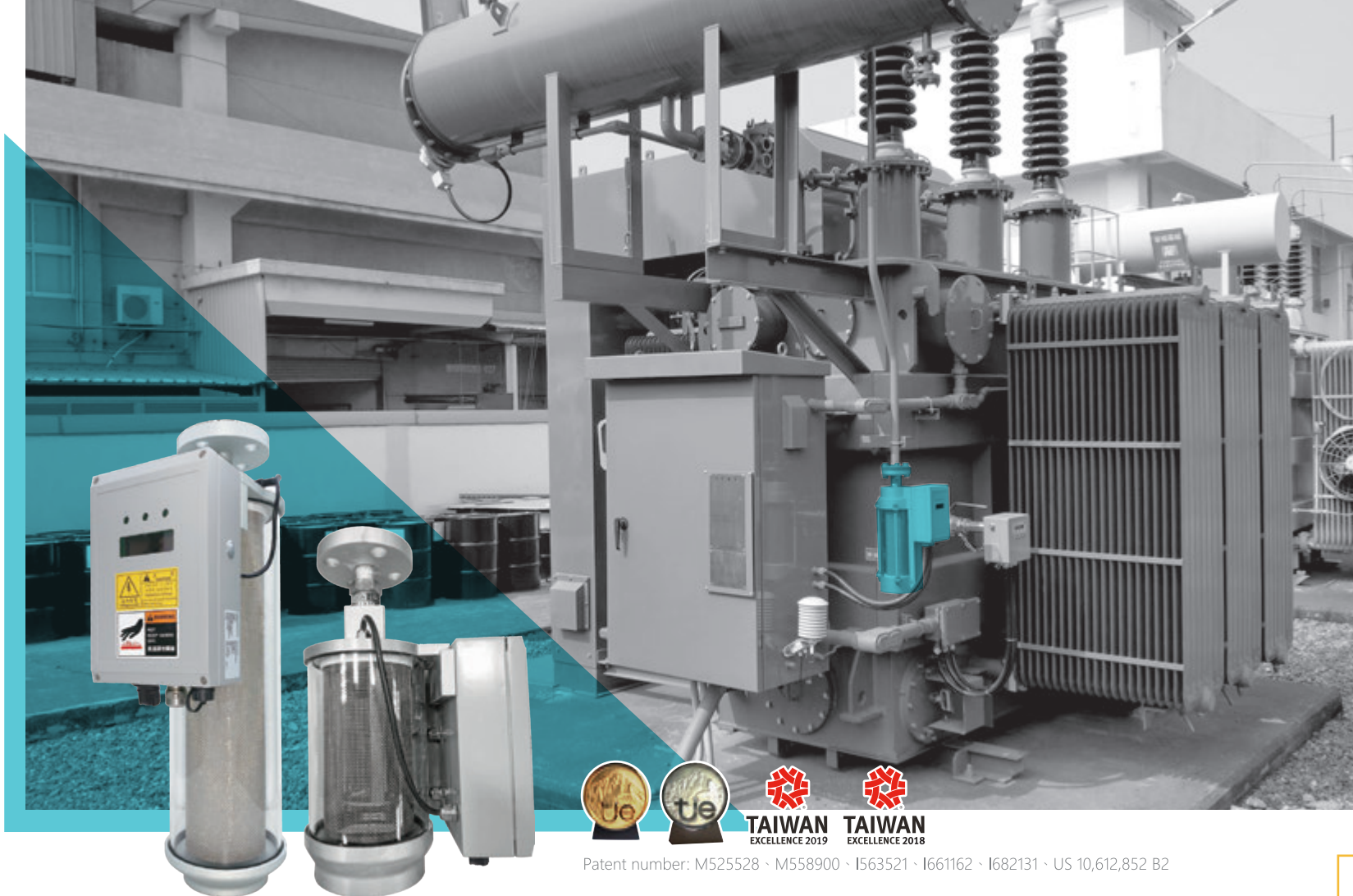
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**FORTUNE ELECTRIC CO., LTD.**









  
 TAIWAN EXCELLENCE 2019 TAIWAN EXCELLENCE 2018
   
 Patent number: M525528 · M558900 · I563521 · I661162 · I682131 · US 10,612,852 B2

### Traditional Respirator

Unable to control intake air humidity.  
 Low dehumidification capacity.  
 The average humidity is above 50%.

Regular replacement of consumables  
 increases labor and material costs,  
 and the cost increases year by year.

Desiccant contains toxic Cl<sub>2</sub>Co  
 No built-in heater, so desiccant cannot be reused  
 The European Union listed Cl<sub>2</sub>Co as an SVHC in 2006



### FE SDB

Intake air humidity controllable.  
 High dehumidification capacity.  
 The average humidity is only below 30%.

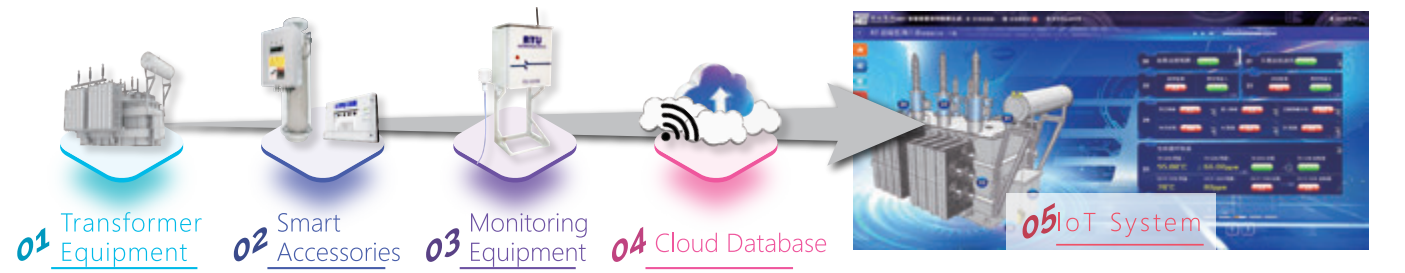
Patrol-free and maintenance-free,  
 reducing manpower and material cost.

The desiccant is colorless, non-toxic,  
 and does not contain Cobalt chloride.  
 Built-in heater allows desiccant to be reused.



### Intelligent Control

It can be combined with the Internet of Things system to transmit the data of the SDB back to the cloud database in real time to monitor its operation status, temperature and humidity and other information. It can also query historical data and graphs from cloud databases.



## Self-Dehydrating Breather ...

Fortune Electric Self-dehydrating breather (SDB) is a device used in oil-immersed transformers while exchange with the outside air. The purpose is to remove the moisture contained in the air when the transformer is inhaled, preventing moisture entering the transformer which will reduce the insulation life.

This product design with a heater, while artificial intelligence detects the humidity of the desiccant is saturated, it will automatically heat to remove the humidity inside desiccant. When heated, the moisture will condense on the pipe wall and let the moisture flow along the wall and drain through the bottom of the SDB.



Item	Power Level		Distribution Level	
	Non-frigid Zone	Frigid Zone	Non-frigid Zone	Frigid Zone
Model	FE-SDB-02-N	FE-SDB-02-F	FE-DSDB-01-N	FE-DSDB-01-F
Supply Voltage	AC 110V~240V	AC 110V~240V	AC 110V~240V	AC 110V~240V
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
MAX Power Consumption	560W	560W	280W	280W
Product Dimension	170×600×260mm	170×600×260mm	170×350×260mm	170×350×260mm
Product Weight	12.3kg	12.3kg	8.7kg	8.7kg
Degree of Protection	IP56	IP56	IP56	IP56
Operation Temperature	0°C~+80°C	-30°C~+80°C	0°C~+80°C	-30°C~+80°C
Output Signal	4~20mA	4~20mA	4~20mA	4~20mA
Applicable Transformer	40~200MVA	40~200MVA	<40MVA	<40MVA
Desiccant Weight	2.2kg	2.2kg	1kg	1kg
Desiccant Material	Colorless (non-poisonous silica gel)			
Material	All external parts are resistant to salt, transformer oil and ultraviolet rays			
Connection Flange	FORTUNE's standard: Please refer to Appendix 4-3. Compatibility: ANSI 1" / DIN2558 1/2" / DIN 42562-3			
Storage Function	Built-in memory card 365 days data storage space			