

BUSHING MONITOR



FEATURES

- Watches for the Number One cause of Large Transformer Failure
- Provides Earliest Detection of Insipient Problems
- Measures Power Factor, Dissipation Factor, and Capacitance at Full System Operating Voltage
- Works with condenser bushings of any material, CVTs, free-standing CTs, and PTs.
- High accuracy, stability, and fast response using four simultaneous measuring techniques

SYSTEM INCLUDES

- Bushing sensors with connection cables
- Monitor system including mounting plate, power supply, field terminals
- Optional Stainless Steel IP55 cabinet

SERVICES AVAILABLE

- Skilled and Experienced field service team for installation and commissioning
- Expert Analysis of field data and customer support
- On-site training courses
- Design and commissioning of communication network

TECHNICAL SPECIFICATIONS

Measurements		
Measuring Quantity	Range	Accuracy
Leakage Current	0-140 mA AC	±1.5 % of reading
Power Factor/Dissipation Factor Capacitance	0-100% 100-5000 pF	±0.045 % of reading ±1.0 % of reading
∅ Angle of Imbalance Current	0-360°	±1.0 % of reading

Measurement Modes	
Sum of Three Current	Standard with 6 currents
Adjacent Phase Reference	
Phase Comparison	
Reference Test (using 3 PTs)	Optional with 3 currents and 3 voltages
Reference Test (using 6 PTs)	Optional with 6 voltages

Monitor Analysis Software Platform	
Alarm Setpoints	Algorithm-based alarms
Graphical User Interface	Trending, comparisons

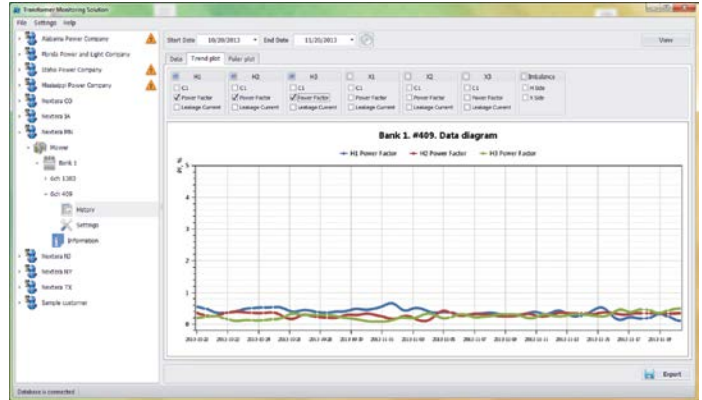
General Specifications	
Supply Voltage	85-264 VAC 47-63 Hz, 120-370 VDC
Power Consumption	Max. 24 VA
Operating Temperature	-40 °C - +65 °C
Output Relays	Ohmically isolated, Programmable
Communication	RS 232, RS-485, DNP3.0, MODBUS



**FRANKLIN GRID SOLUTIONS
BUSHING MONITORING SYSTEM**



**EXAMPLE
BUSHING SENSOR**



ANALYSIS SOFTWARE



**EASY AND SAFE
BUSHING SENSORS**



SENSORS ARE AVAILABLE FOR ANY TYPE OF BUSHING THROUGH 765 KV



GE Type U Bushing with burned paper layers and evidence of partial discharge at foil edge



Bushing with burned paper layers and evidence of partial discharge at foil edge

ON-LINE MONITORING OF POWER FACTOR PREVENTED THESE BUSHINGS FROM FAILING IN-SERVICE.