Franklin Electric

Grid Solutions

OPTIMIZER3

THE MOST ADVANCED BREAKER MONITOR IN THE WORLD

CIRCUIT BREAKER PERFORMANCE MONITOR & DATA ACQUISITION SYSTEM

30 Years of Breaker Monitoring Hardware Experience in Every Box

High Quality
5 Year Warranty

REAL UTILITY STRATEGIES

With Franklin Electric's Grid Solutions Monitoring

- Defer Major Overhauls from 9 Years to 18
- Extend Grease/Travel Test Intervals to 9 Years
- Improve Safety by Reducing Truck Rolls
- Identifying SF6 Leaks Sooner Enables Planned Outages vs. Forced Outages
- Single Pole Replacement Rather Than Entire Asset
- Provides Edge Intelligence by Processing Close to the Source Able to send notifications via email directly to stakeholders, bypassing SCADA, saving setup labor

SUPPORTS MANY SENSOR TYPES INCLUDING:

- SF6 Dew Point
- SF6 Density
- SF6 Compensated Pressure
- Temperature
- Hydraulic Pressure
- Air Pressure
- AC/DC Voltage
- AC/DC Current
- LenSense
- Heater Function
- Cabinet Door

- Monitored Input Power AC or DC Input Voltage is Logged and Stored
- Five Control Signal Inputs, Easily Configured for IPO or Ganged Mechanisms Both Legs Fused and Optically Isolated
- Five Powered 4-20 ma Sensor Inputs
- Three Dual-Mode Sensor Inputs 4-20 ma or Digital Multi-Parameter
- Trip Coil Identifier Fault/Switching Threshold Logs Primary Line Current
- Built-in Temp Sensor Ambient Temperature is Measured and Logged
- Master & Slave RS485 Connections Used for Addressable Sensors and Legacy Scada Rtus
- All Connections are Made to Pluggable Phoenix Connectors
- No Software Required Secure HTTPS Web-Server
  Multi-Level Passwords DNP 3.0
  Offers Over 1000 Points
- Internal WI-FI Capability with External Antenna
- USB Port for Data Uploads, Downloads, and Firmware Upgrades; Supply Power to Accessories
- Ethernet RJ-45 or Fiber Communication

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PRE-ENGINEERED ACCESSORIES FOR EVERY INSTALLATION NEED

SNAP-ON CURRENT TRANSDUCERS

Three are included in a set. Full-scale current sizes range from 20 to 160 amps and are 1% accuracy. They are open-core and clip on to the circuit breaker bushing CT secondary circuits.

RETROFIT SF6 PLUMBING KITS

Available for many popular circuit breakers. Reduced labor for installation of DSDP SF6 Gas Density Sensor on legacy circuit breakers

HYBRID SF6 GAUGE WITH ANALOG OUTPUT

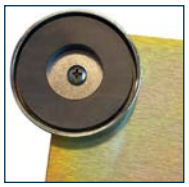
SF6 Gauge/Controller for IEEE 63 function and includes 4-20 ma output, representing 0-10 bar abs.
Superior Series-Reference-Chamber is proven by over 60,000 installations world-wide on Breakers and GIS.
Not suceptible to Solar effects, no insulating cover needed.
Uses snap-action switches with silver contacts for reliable action.
Positive-going over-pressure alarm contact available.
Accurate with any mixture of SF6.

INCON TEE VALVES

Connection to SF6 Gas filling ports to install DSDP Density Sensors may be required and be the best option for a given installation. INCON Tee Valves attach to a DN8 or DN20 filling port, include a secondary fill connection, and a valved side entry for the SF6 Gas Density Sensor. The filling port has a dust cover that is tethered to the TEE so it will not be dropped into the dirt or be otherwise lost in use. Installation of the TEE is functionally equivalent to a permanently plumbed connection.

CURRENT TRANSDUCERS

Current Transducers for AC or DC current for monitoring motors, pumps, cabinet heaters, and other accessories.



MAGNET KITS

This labor-saving option consists of four large cup magnets, four speed nuts, and four stainless screws. They attach to the OPTIMIZER3 mounting holes. By mounting the monitor to the circuit breaker control cabinet with magnets, no holes need to be drilled in the control cabinet, no cleanup required, Fast installation

MODEL DSDP SF6 GAS DENSITY SENSOR

Quartz oscillator principle, no mechanical moving parts, MTBF of 50 years. High accuracy. No temperature compensation, the perfect choice for severe environments

TEMPSENSE

Tempsense is a remote temperature sensor that connects to the OPTIMIZER3. It is a 4-20 ma loop-powered sensor that is qualified for utility environments. Useful for monitoring tank heater function.

LENSENSE™

LenSense™ is a retrofit lens for temperature-compensated SF6 pressure gauge like this one. Installation takes 5 minutes with a screwdriver. It adds continuous 4-20 ma sensor output to the gauge.

OM-DPS

Continuously monitors the present Dew Point temperature and the present SF6 temperature and sends these parameters to the OPTIMIZER3 via a proprietary digital signal. The data is compared to alarm settings for use by maintenance crews.

SF6 DRYER

The OM-NM-DN20 absorbs up to 40 milliliters of water from switch-gear SF6 gas.