



The Best Choice for  
**Measuring Moisture in SF<sub>6</sub> gas**  
PhyMetrix Portable Moisture Analyzer  
**PPMa**

The transmission and distribution of electrical power is performed at high voltages. The power companies then reduce the voltage to a lower level for consumption. The power transformers and circuit breakers that are capable of operating at high voltages are often insulated with SF<sub>6</sub> gas, referred to as gas insulated switch gear (GIS) systems. The amount of moisture in the gas has to be kept to a minimum in order to reduce the risk of arcing and thus equipment failure. Therefore the maintenance and commissioning of GIS systems requires precise measurement of the moisture content of the SF<sub>6</sub> gas. SF<sub>6</sub> gas can damage the earth's environment and should not be released into the atmosphere, it is also expensive and thus it is important to preserve.

The PPMa is ideal for the power industry's moisture measurement requirements in **SF<sub>6</sub>, N<sub>2</sub>, Air** and other gases because of its unique features:

- High Accuracy over a wide measuring range -110°C to +20°C dewpoint
- Displays Dewpoint, PPMv, PPMw, μB-H<sub>2</sub>O; at standard pressure or GIS pressure
- Available with optional built-in Pressure Sensor for pressure computations
- Speed of Response
  - Saving valuable service technician time
  - Minimizing waste of environmentally harmful and costly gas
- Low Cost of Ownership
- Resistant to Contaminants common in field measurements e.g. HF, F<sub>2</sub>, oil vapor
- Sealed Sampling chamber to allow simple Gas Recovery, via 1/8" Swagelok ports
- Small, lightweight, rugged, weatherproof analyzer designed for use outdoors
  - Perfect for testing in tight spaces and above ground locations
- Extremely Easy to Operate, with intuitive graphical user interface
- On screen graph indicates when measurement is stable
- Powered by a rechargeable battery
- Data logging (single point or continuous) with location/operator tags
- USB interface for transferring logged data to MS-Excel® spreadsheet
- Superior Reliability
- Expert prompt support from PhyMetrix engineers
- Training software available, to familiarize technicians with analyzer as convenient