

APPLICATIONS: DATA CENTERS

POWER QUALITY AND ENERGY

- 1



Verify ATS operation and timing, and measure DC offset on inverters
POWERPAD® IV, CLASS A, MODEL 8345
- 2



Monitor VFDs for harmonic content
POWER & ENERGY LOGGER MODEL PEL 112
- 3



Verify load balance with current measurements
CLAMP-ON METER MODEL 606
- 4



Log unbalance, voltage sags, and swells
POWERPAD® III MODEL 8336
- 5



Monitor and record UPS output voltage and battery bus voltage to ensure power reliability and detect anomalies
DATA LOGGER MODEL L461
- 6



Log AC feeder and branch circuit currents across two channels identify capacity constraints
DATA LOGGER MODEL L412 W/ MN93-BK

GROUNDING AND BONDING

- 7



Test resistance-to-ground of ground electrodes
GROUND RESISTANCE TESTER MODEL 6472
- 8



Test continuity of grounding components
CONTINUITY TESTER MODEL CA 6011
- 9



Test grounding grid integrity
MICRO-OHMMETER MODEL 6292
- 10



Commission ESD Flooring with resistance measurements
MODEL 6536 ELECTROSTATIC DISCHARGE (ESD) FLOOR TEST KIT

POWER DISTRIBUTION AND SAFETY

- 11



Test battery intercell connections for low resistance
MICRO-OHMMETER MODEL 6255
- 12



Perform insulation resistance tests on LV breakers
MEGOHMMETER MODEL 5050
- 13



Perform infrared scans of electrical components
THERMAL IMAGING IR CAMERA MODEL 1954
- 14



Check phase rotation
PHASE ROTATION METER MODEL 6610
- 15



Verify bus plug contact resistance
MICRO-OHMMETER MODEL 6240
- 16



Trace data and power cables to find their source or locate breaks
CABLE VERIFICATION & TRACING ANALYZER MODEL 6683
- 17



Check transformer turns
DTR® MODEL 8511
- 18



Check winding resistance
MICRO-OHMMETER MODEL 6240

ENVIRONMENTAL MONITORING AND LOGGING

- 17



Log temperature and humidity in remote locations
THERMO-HYGROMETER DATA LOGGER MODEL 1246
- 18



Verify proper HAC airflow
THERMO-ANEMOMETER DATA LOGGER MODEL 1228
COMING SOON!
- 19



Measure and log lighting intensity for compliance
LIGHTMETER DATA LOGGER MODEL 1110
- 20



Log thermocouple measurements
THERMOCOUPLE THERMOMETER DATA LOGGER MODEL 1822
- 21



Identify hot and cold airflow patterns
THERMAL IMAGING IR CAMERA MODEL 1954
- 22



Measure CO₂, temperature and humidity to verify air quality
AIR QUALITY LOGGER MODEL 1510

PERFORMANCE DC MEASUREMENTS

- 22



Clamp each 48 Vdc feed at the fuse panel to verify per-position rack loading and balance A/B feeds where AC power monitoring can't see
MICROPROBE MODEL K100
- 23



Check battery-monitoring sense lines, UPS control and alarm loops for unexpected milliamperage draw that points to a leakage path or wiring fault
MICROPROBE MODEL K110