



Start with preventative maintenance:

- Measure voltage, current, phase and temperature of electrical equipment and compare to previous records to determine changes in sequence and operation
- Change filters and measure pressure drop of filter banks
- Check RPM of motor-driven equipment of pumps and fans to find drive problems

Calibrate critical sensors wired to building automation controls. Sensors that are even a few units out of calibration will cause systems to consume excessive energy.

Log temperature, pressure and humidity values and compare to ASHAE or other comfort standards.

Check air, water, and steam flow rates with data loggers or field calibrators. Change in flow rates could indicate a fouled heat exchanger, piping or pumping problem.

Check air, water and steam pressures and compare to BAS equipment readings and design values to identify efficiency loss.

Measure indoor air quality values such as CO₂ ppm and correct deteriorations.

**As good as new
Retro-commissioning is the
missing link for improving
HVAC plant performance.**

Commissioning plant systems—such as boilers, chillers, towers and pumps—used to be a one-time event. But in the quest for ways to keep building performance high and operational costs low, on-going and retro-commissioning maintenance is becoming part of a best-practices regimen. Modern Building Automation Systems (BAS) can provide some of the benefits of on-going commissioning. The self-tuning controls of BAS systems often cover up poorly operating buildings, however. So both buildings with and without BAS need regular inspections and calibrations. If the building equipment was never properly commissioned in the first place, a retro-commissioning is important to evaluate, baseline and make changes to maximize system efficiency. Older buildings with fewer or older controls require more footwork, measurement, analysis and often upgrades.

TMA-21HW

Hot Wire Anemometer for monitoring air flow and indoor air quality



TMD-55W

Multilogging Digital Thermometers with wireless communication



TACH-20

Combo Tachometer for measuring rotational and surface speed



HVAC / Environmental

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When you need tools designed specifically for all the jobs you do in HVAC, turn to Amprobe. Whether you need to measure temperature, humidity, pressure, or check for leaks, Amprobe's complete line of HVAC/ Environmental tools range from basic tools for simple one-time checks, to specialized wireless instruments offering remote access to measurements.

