Healthcare Issues

The Patient Experience

Problem: Noise levels disrupt patient rest and healing

Solution: Alert staff and visitors to noise violations with Extech sound level meters and monitor/alarms

Problem: Patient rooms are too hot/cold

Solution: Balance airflow for better heating/cooling distribution with Extech anemometers

Problem: Patients complain of poor lighting in rooms

Solution: Monitor lighting levels throughout patient rooms with Extech light meters

Electrical & Plant Engineering

Problem: Unexpected equipment breakdown

Solution: Ensure operational reliability and redundancy with Extech meters and testers

Problem: Failing electrical and safety inspections

Solution: Investigate electrical safety violations with FLIR thermal imagers

Problem: Downtime affecting patient care systems

Solution: Maintain care-related systems and standby genset power quality

Facilities Maintenance

Problem: Aging hospital buildings are letting heating/cooling escape

Solution: Effectively diagnose building envelope leaks using FLIR thermal imagers

Problem: Staff complain of damp areas

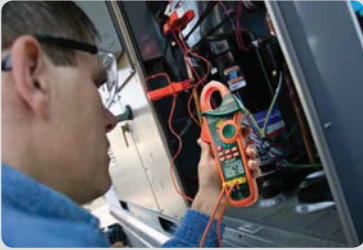**Solution:** Monitor temperature and humidity trends with Extech digital chart recorders

Problem: Water leaking into top floor

Solution: Trace leaky roof membranes and moisture intrusion

HVAC/R & Mechanical

Problem: Cascading failures in complex plant HVAC/ mechanical systems

Solution: Effectively troubleshoot HVAC components with Extech multifunction HVAC/R meters

Problem: Poor heating and cooling effectiveness

Solution: Trace leaky ducts with FLIR thermal imagers

Problem: Condensation found in patient rooms

Solution: Track condensation risks from ceiling beam systems with Extech moisture meters

Infectious Disease Control

Problem: Infectious disease can shut down hospital operations

Solution: Develop achievable pandemic emergency plans

Problem: Patients and staff at high risk of exposure

Solution: Implement easy-to-use non-contact tools from Extech to minimize exposure

Problem: Contagious patients put others at risk of infection

Solution: Screen for elevated body temperature at all entry points with Extech IR meters

Air & Environmental Quality

Problem: Poor indoor air quality affecting staff and patients

Solution: Tune systems for healthy IAQ with Extech CO, CO2, humidity, and temperature meters

Problem: Lighting levels vary widely throughout hospital

Solution: Perform photometry audit with Extech datalogging light meters

Problem: Noise levels can affect NICU patient care

Solution: Use Extech sound level alert with visual indicators to highlight noise violations

Extech and FLIR Tools Get the Job Done

Extech meters and FLIR thermal cameras help you ensure high patient care scores, minimize care disruptions, and implement JCAHO compliance. Whether used as a component of an effective predictive maintenance program or as a key tool for integrated facilities maintenance, Extech and FLIR are the tools of choice for solving problems fast and minimizing disruptions.

Clamp Meters

Used for
- Circuit loads up to 3,000 A
- Voltage, resistance, capacitance, contact and non-contact temperature measurements

Applications in Healthcare
- Checking current load of HVAC and refrigeration units
- Troubleshooting electrical distribution systems
- Repairing building transportation systems

Digital MultiMeters

Used for
- Essential electrical testing
- Identifying inrush, spikes and sags
- Non-contact voltage detection

Applications in Healthcare
- Upgrading electrical panels
- Test and repair electronics systems (security, communication, etc.)
- Installing programmable lighting in assembly halls

Thermometers

Used for
- Contact or non-contact temperature measurements
- Differential temperature calculations
- Monitoring moving components

Applications in Healthcare
- Inspecting food refrigerators
- Reading vent temperatures
- Employee/customer screening for infectious disease symptoms

Power Analyzers

Used for
- Diagnosing power quality issues
- Monitoring electrical demand trends
- Identifying equipment inefficiency

Applications in Healthcare
- Benchmark energy usage
- Balance energy usage around on- and off-peak times
- Test 3-phase equipment
- Identify utilities-related issues

Tachometers

Used for
- Measuring motor conveyor and belt speed
- Reducing premature wear

Applications in Healthcare
- Calibrate speeds of escalators, moving walks, elevators, etc.
- Measure HVAC motor and belt speeds
- Test automatic door speeds

Environmental Meters

Used for
- Monitoring humidity, temperature, and airflow
- Measuring light, noise levels
- Monitoring CO and CO2 levels

Applications in Maintenance
- Ensure Indoor Air Quality
- Monitor dryout after water damage restoration
- Check for light and sound compliance in workplace

Electrical Testers

Used for
- Tracing outlets to breakers
- Testing continuity in circuits
- Identifying rotary field indication

Applications in Healthcare
- Installing energy-saving electrical equipment
- Repairing outlet and switch issues
- Identify/trace unmarked wiring

Inspection Tools

Used for
- Electrical equipment diagnostics
- HVAC diagnostics
- Building envelope inefficiency

Applications in Healthcare
- Inspecting hard-to-reach areas
- Find energy losses in buildings
- Quickly scan electrical components for overheating

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