**Recommended manufacturing solutions**

| Digital multimeters | Best suited for: | • Productivity gains: two-person jobs can now be performed by one person  
| | • Safety improvement: stay away from hazards while observing readings | **Applications:** Measurements around moving machinery, difficult-to-access areas, electrical panels and PLCs, overhead lights |
| | **Clamp meters** | | Best suited for: | • Measuring in hazardous or awkward test areas where detachable display and iFlex® flexible probe improves technician’s safety  
| | • Troubleshooting live speed fluctuations and nuisance trips | **Applications:** Motors, drives, electrical panels, poorly-lit areas, noisy electrical environments |
| | **Power quality analyzers** | | Best suited for: | • Troubleshooting and preventing problems in power distribution systems  
| | • Uncovering hard-to-find or intermittent issues  
| | • Power quality surveys | **Applications:** Generators, harmonics (electronic), load studies, switchgear |
| | **Thermal imagers** | | Best suited for: | • First line of defense for displaying a visual image of surface temperatures to easily and safely identify electrical and mechanical problems  
| | • Quality control  
| | • Process monitoring | **Applications:** Electrical panels, manufacturing systems, motors, steam systems/traps, building inspections, heat exchangers |
| | **Handheld oscilloscopes** | | | | **Applications:** Machine shop troubleshooting, factory operations, HVAC system testing and maintenance, process control, networks, audio diagnostics, troubleshooting adjustable-speed AC motor drives and general plant troubleshooting |
| | **Visual thermometers** | | Best suited for: | • Preventative maintenance  
| | • Detection and capturing of issues with digital and thermal blended images  
| | • Pinpointing hot and cold spots | **Applications:** Motors, pumps, bearings, windings, boiler operations |
| | **HVAC tools** | | Best suited for: | • Optimizing HVAC ventilation settings  
| | • Monitoring air quality and factors that may detract from comfort/safety  
| | • Troubleshooting and maintaining indoor air quality | **Applications:** HVAC system, test and balance, ventilation management |
| | **mA clamp meters** | | Best suited for: | • Measuring 4 to 20 mA control signals without breaking the loop  
| | • Measuring mA input and output signals from PLCs and other I/O  
| | • Sourcing 4 to 20 mA, 1-5V or 0 to 10V signals into PLC or control system inputs | **Applications:** Source, simulation and measurement of mA and voltage control system I/O. Control loop maintenance and troubleshooting |

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**Manufacturing and automation control—the backbone of our supply chain**

Fluke offers a complete line of clamp meters

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Fluke solutions for today’s automation systems

Manufacturing plants have a variety of integrated systems and processes including robotic assembly machines, computer-aided design, automatic inspections and testing as well as storage- retrieval systems. Fluke knows keeping these systems up and running is critical to quality and one failure can lead to others, resulting in a significant loss of time and money. Fluke makes tools that perform to the rigorous standards of your manufacturing plant, regardless of how demanding or fast-paced. Fluke tools are the industry benchmark against which all other tools are measured.

See our full line of innovative products at www.Fluke.com
**Plant Engineer**

**Focus:**
Maintaining and optimizing power and energy systems.

**Issues faced:**
- Consistent quality power loads
- Maintenance of continuous and predictable uptime
- Immediate response and repair to system interruptions
- Plant and personnel safety

**Fluke solutions:**
- CNX 3000
  - Visual thermometers
  - Digital multimeters
  - Infrared thermometers
  - Power quality analyzers
  - (Three-phase and single phase)
  - Clamp meters
  - mA clamp meter

**Electrician/Engineer**

**Focus:**
Maintenance, repair, and monitoring of all equipment and systems.

**Issues faced:**
- Efficient, consistent, quality power delivery
- Power installation and reworks
- Troubleshooting sensitive equipment

**Fluke solutions:**
- CNX 3000
  - Visual thermometers
  - Digital multimeters
  - Infrared thermometers
  - Power quality analyzers
  - HVAC tools
  - Clamp meters
- mA clamp meter

**Plant Manager**

**Focus:**
Plant functionality and operation.

**Issues faced:**
- Controlling downtime and energy costs
- Good ROI on equipment
- Equipment failure diagnosis and prevention
- Expense management

**Fluke solutions:**
- Visual thermometers
- Thermal imagers
- Power quality analyzers
- Vibration tester

**Automation/Control Engineer**

**Focus:**
Automation design, programming, simulation and testing.

**Issues faced:**
- System configuration, optimization, and analytics
- Uptime maintenance
- Analog and digital I/O commission, testing and troubleshooting

**Fluke solutions:**
- CNX 3000
  - Handheld oscilloscopes
  - Digital multimeters
  - Clamp meters
  - mA clamp meter

**Manufacturing and automation control**

Learn how Fluke solutions can save you time and money while increasing your productivity at www.fluke.com/mfg-automation

Based on you. Built by Fluke.