

Recommended manufacturing solutions

FLUKE®

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 PLC's, 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 line 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 (electronics), 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, heaters/furnaces



Handheld oscilloscopes

Best suited for:

- Troubleshooting and installation applications
- Finding fast answers to problems in machinery, instrumentation, control and power systems
- Bus health testing for industrial bus systems

Applications:

Oscilloscope, resistance and continuity measurement; high frequency measurements; bus health and power measurements



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

Fluke offers a complete line of clamp meters



Vibration tester

Best suited for:

- Troubleshooting mechanical problems to instantly understand root cause
- Proactive repair planning and resource management
- Confirmation of repairs after maintenance
- Commissioning of new equipment

Applications:

Motors, fans and blowers, belt and chain drives, gearboxes, pumps, compressors and spindles measurements; bus health and power measurements



Find application notes, case studies, and posters at www.fluke.com/mfg-automation

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FLUKE®

Manufacturing and automation control—the backbone of our supply chain

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
- Thermal imagers
- Power quality analyzers
- HVAC tools
- Vibration tester
- Clamp meters

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 (three-phase and single phase)
- 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 commissioning, testing and troubleshooting

Fluke solutions:












- CNX 3000
- Handheld oscilloscopes
- Digital multimeters
- Clamp meters
- mA clamp meter

Diagram is not intended to be an exact representation. Diagram components are not to scale and are for illustration purposes only.

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.

Digital multimeters		Power quality analyzers	Clamp meters	Visual thermometers	Thermal imagers	mA clamp meter	True-rms AC/DC clamps	Infrared thermometers	Handheld oscilloscopes	HVAC tools		Vibration testers	
													
233	CNX 3000	435-II	381	VT02	Ti125	773	325	62MAX +	190 Series II	985	975	805	810