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Circuit Identifier
IDEAL INDUSTRIES, INC.

Features
• Positively Identifies Circuit Breakers and Fuses Without Service Interruption
• Plug-In Transmitter Identifies and Troubleshoots 120V AC 3-Wire Outlets
• Checks Proper Wiring Sequence and GFI Operation
• Hand-Held Receiver with Adjustable Sensitivity Level
• Visual and Audible Indicators

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>61-052</td>
<td>94057885</td>
<td>E-Z Check Plus</td>
</tr>
<tr>
<td>61-055</td>
<td>22004263</td>
<td>Automatic E-Z Check Plus</td>
</tr>
<tr>
<td>61-032</td>
<td>25042116</td>
<td>Automatic Analog Review</td>
</tr>
<tr>
<td>61-034</td>
<td>25042118</td>
<td>Automatic Digital Receiver and GFCI Receptacle Tester</td>
</tr>
</tbody>
</table>

1AC-II and 1LAC-II
Fluke®

The most innovative pocket-sized voltage detectors. The next generation Fluke 1AC-II and 1LAC-II AC voltage detectors, with VoltAlert® non-contact voltage detection, are easy to use: just touch the tip to a terminal strip, outlet, or cord. When the tip glows red and the unit beeps, you know there's voltage on the line. Electricians, maintenance, service, safety personnel, and homeowners can quickly test for energized circuits and defective grounds on the factory floor, in the shop, or at home.

Benefits
• The 1AC-II Continually Tests its Battery and its Circuit Integrity with a Periodic Double Flash Visual Indication Using Fluke Voltbeat™ Technology
• The 1AC-II and 1LAC-II are Category IV - 1000 V Overvoltage Rated Products for Added User Protection, the Highest Rated of Their Kind
• Voltage Detection of 90 to 1000 V AC, as well as a 24 to 1000 V AC Control Circuit Model
• They are Rugged, Reliable, and have a Two-Year Warranty

<table>
<thead>
<tr>
<th>Mfg. No.</th>
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<tbody>
<tr>
<td>FLUKE-1AC-A-II</td>
<td>97204659</td>
<td>Low Voltage Detector 20-90 V AC</td>
</tr>
</tbody>
</table>

E-Z Check® Circuit Testers
IDEAL INDUSTRIES, INC.

Features
• No-Slip Ergonomic Design Maximizes Comfort
• Premium Neon Lamps Prevent False Readings
• Tough Impact-Resistant Case
• Tests for Correct Wiring, Open Ground, Reverse Polarity, Open Hot, Open Neutral, Hot on Neutral, Hot and Ground Reversed with Open Hot in 3-Wire, 125V AC Circuits
• 5-Year Warranty

<table>
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<tr>
<th>Mfg. No.</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>61-035</td>
<td>88136242</td>
<td>E-Z Check Circuit Tester</td>
</tr>
<tr>
<td>61-051</td>
<td>89009463</td>
<td>E-Z Check Plus GFCI Circuit Tester</td>
</tr>
</tbody>
</table>

7-600 Electrical Tester
Fluke®

The 7-600 Electrical Tester is designed for safe, automatic measurements of AC and DC volts, resistance and continuity. Simply turn on and use. Auto Selection simplifies voltage measurements in power environments. When measuring ohms/continuity with more than 4.5 volts present across the input jacks (intentional or not), the meter automatically switches to measuring AC or DC volts, whichever is greater. Input impedance is approximately 2 KOhms, helping determine if voltage is from leakage (so-called “ghost” voltages) or a hard connection. Overload protection is provided in all measurement modes.

Features
• Automatically Measures AC/DC Volts, Resistance and Continuity
• Continuity Beeper
• Auto Selection Simplifies Voltage Measurements
• CAT III 600V Rating
• Digital Display
• Sleep Mode
• Two-Year Warranty

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUKE-7-600</td>
<td>96051656</td>
<td>Voltage, Resistance and Continuity Tester</td>
</tr>
</tbody>
</table>
**T3 Voltage and Continuity Tester**

*Fluke®*

The new Fluke T3 is a voltage and continuity tester that is designed to work long and hard and can stay connected much longer than solenoid type testers. There are no settings—just probe the circuit and the T3 will show you whether you are looking at AC volts, DC volts or an open circuit. You don’t even have to turn it on or off. Seven different voltage indicators can clearly differentiate between key voltage levels.

**Features**
- Compact and Rugged; Easily Fits in Tool Pouch or Pocket
- LEDs Clearly Indicate 7 AC and 7 DC Nominal Voltage Levels
- Indicates DC Voltages as Low as 6 Volts
- DC Polarity Indicator
- Automatically Selects Continuity Beeper or Voltage Measurement Mode
- Rugged Enough to Withstand a 3 Meter Drop
- Protected to 1000V CAT III and 600V CAT IV
- Auto-ON Light Indicates It’s Working; Turns Off After 8 Minutes of Inactivity
- Heavy-Duty Test Leads for Long Life
- One-Year Warranty

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<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>FLUKE T3US</td>
<td>99713510</td>
<td>Voltage and Continuity Tester</td>
</tr>
</tbody>
</table>

**T5 Voltage, Continuity and Current Testers**

*Fluke®*

The Fluke T5 Electrical Testers let you check voltage, continuity and current with one compact tool. With the T5, all you have to do is select volts, ohms or current and the tester does the rest. OpenJaw™ current lets you check current up to 100A without breaking the circuit. Its tough test leads stow neatly in the back of the tester, making it easy to tote the T5 in your tool pouch. Detachable SlimReach™ test probes are customized for national electrical standards. The test leads accept optional accessories such as clips and specialty probes. The optional HS holster lets you clip the T5 onto your belt. Available in 600V and 1000V models, these testers are rugged enough to withstand a 10-foot drop.

**Features**
- Automatically Measures AC and DC Volts with Precise Digital Resolution
- Displays Resistance to 1000 Ohms
- Easy and Accurate Open Jaw™ Current Measurement
- Continuity Beeper
- Compact Design with Neat Probe Storage
- Detachable SlimReach™ Probe Tips are Customized for National Electrical Standards
- Test Leads Accept Fluke Accessory Test Clips
- Can Stay Connected Much Longer than Solenoid Type Testers
- Auto-Off Mode to Conserve Battery Life
- Optional Holster Attaches to a Belt and Neatly Stows Test Leads

**Electrical Tester Kit With Holster and 1AC VoltAlert™**

T5-H5-1AC KIT (22081952) Includes:
- Fluke T5-1000 Electrical Tester (97204942)
- HS Electrical Tester Holster (97204656)
- Fluke 1AC VoltAlert™ (96051655)

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>TS-1000-USA</td>
<td>97204942</td>
<td>1000V Voltage, Continuity and Current Tester</td>
</tr>
<tr>
<td>TS-600-USA</td>
<td>97204655</td>
<td>600V Voltage, Continuity and Current Tester</td>
</tr>
</tbody>
</table>

**GFCI Receptacle Tester**

*IDEAL INDUSTRIES, INC.*

**Features**
- Tests for GFCI Receptacles for Proper Operation
- Warns Against Faulty Wiring in 3-Wire Receptacles
- For Use on 125V AC Circuits
- 5-Year Warranty

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>61-501</td>
<td>99433219</td>
<td>GFCI Receptacle Tester</td>
</tr>
</tbody>
</table>

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Don’t see what you need? Please contact your nearest Graybar office!
### Powr-Glo™ Audible Voltage Tester

**IDEAL INDUSTRIES, INC.**

**Features**
- Tests for Voltage from 40V to 440V AC
- Locates Breaks Along Live, Insulated Wires and Power Cords; Checks for Energized AC Circuits, Distinguishes Polarity and Detects Leaks in Underground Devices
- Illuminates Brightly for Quick, Accurate Test Results
- Audible Voltage Detection
- 5-Year Warranty

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>61-061</td>
<td>92140654</td>
<td>Powr-Glo Audible Voltage Tester</td>
</tr>
</tbody>
</table>

### Test-Glo™ Circuit Tester

**IDEAL INDUSTRIES, INC.**

**Features**
- Industrial Quality Tester Checks Voltage from 80V to 600V AC/DC
- Neon Test Lamp at Front of Probe
- Resistors Reduce Voltage Reaching Leads
- 24 in. Lead - Rated 10,000V
- 5-Year Warranty

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>61-040</td>
<td>88136245</td>
<td>Test-Glo Circuit Tester</td>
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</tbody>
</table>

### Vol-Con® Continuity Testers

**IDEAL INDUSTRIES, INC.**

**Features**
- Extremely Rugged and Reliable Three-In-One Tester
- Vibrates When Voltage is Present
- Dual Voltage Indication for Backup Safety
- Replaceable Leads with Shielded Probe Tips
- Bright Long-Life LED and Neon Indicator Lamps
- 5-Year Warranty

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>61-076</td>
<td>88136258</td>
<td>Vol-Con, tests from 5-600V AC/DC</td>
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<tr>
<td>61-086</td>
<td>22048358</td>
<td>Vol-Con XL, tests from 6-600V AC/DC</td>
</tr>
<tr>
<td>61-201</td>
<td>88136263</td>
<td>Vol-Con, Four 1.5V Batteries</td>
</tr>
</tbody>
</table>

### Vol-Con® Elite Testers

**IDEAL INDUSTRIES, INC.**

**Features**
- Vibration Mode
- Digital Circuitry for Accurate Measurements
- Tests for High Voltage up to 600V AC/200V DC
- Tests for Low Voltage as Low as 24V AC/6V DC
- Audible Continuity
- Low Impedance (to Eliminate Ghost Voltages)
- Non-Contact Voltage Indication
- Replacement Silicone Test Leads
- Integral Lead Storage

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>61-092</td>
<td>99880494</td>
<td>Vol-Con Elite</td>
</tr>
</tbody>
</table>

### Vol-Test® Voltage Tester

**IDEAL INDUSTRIES, INC.**

**Features**
- Extremely Rugged and Reliable
- Solenoid Indicator and Neon Test Lamp Provide Double Protection
- Tests 80V to 600V AC/DC (25 to 60Hz)
- Independent Circuitry Provides a Built-In Backup Safety System
- Replaceable Leads with Shielded Probe Tips
- 5-Year Warranty

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>61-065</td>
<td>88136251</td>
<td>Vol-Test Voltage Tester</td>
</tr>
<tr>
<td>61-070</td>
<td>88136255</td>
<td>Standard Test Leads</td>
</tr>
</tbody>
</table>

### Volt Sensor® NCV Pocket Tester

**IDEAL INDUSTRIES, INC.**

**Features**
- Checks Non-Contact Voltage from 40V - 600V AC
- Audible and Visual Indication
- Tests for Energized Circuits
- Over-Molded Rubber Cushion Grip
- Compact Rugged Housing

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>61-063</td>
<td>22004264</td>
<td>Volt Sensor Pocket Tester</td>
</tr>
</tbody>
</table>

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Don't see what you need? Please contact your nearest Graybar office!
Testing Instruments

Voltage Detectors • Multimeters, Digital

**LVD1 Voltage Detector / Volt Light**

Fluke®
The Fluke LVD1 is a non-contact AC Voltage Detector and LED Flashlight combined in one convenient, compact design with exclusive dual-sensitivity. The voltage detector glows blue when it’s near AC voltage, and glows red when it’s at the source. Detects voltages from 40 to 300V AC. Voltage detector glows blue 50 to 60 Hz or 1 to 5 inches away from source. Operating temperature 0° to 50°C.

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>LVD1</td>
<td>22117422</td>
<td>Non-Contact Voltage Detector / LED Flashlight</td>
</tr>
</tbody>
</table>

**110 Series Digital Multimeters**

Fluke®
These compact meters (160 x 96 x 46mm) pack more features than many multimeters twice their size. Features include True-RMS AC voltage and current readings, easy-open battery access door, Min/Max/Average and frequency and capacitance capabilities. They are all CAT III rated for 600V and are protected by a three-year warranty. The 112 model has a backlight and delivers 0.7% basic DC accuracy. Compact case with separate holster. UL and CSA Listed.

**Features**
- True-RMS Measurements
- 0.7% Basic Accuracy DC, ± 1% Basic Accuracy AC
- 6000 Count Resolution
- Digital Display with 33 Segment Analog bargraph
- AC/DC Current Measurements (111/112)
- Frequency, Capacitance, Resistance, Continuity and Diode Measurements
- Manual and Automatic Ranging
- Display Hold
- Min/Max/Average Recording
- Closed Case Calibration Through Front Panel

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUKE-110 ESFP</td>
<td>99713513</td>
<td>Compact Digital Multimeter, AC</td>
</tr>
<tr>
<td>FLUKE-111 ESFP</td>
<td>99713512</td>
<td>Compact Digital Multimeter, AC/DC</td>
</tr>
<tr>
<td>FLUKE-112 ESFP</td>
<td>99692387</td>
<td>Compact Digital Multimeter, AC/DC with Backlight</td>
</tr>
</tbody>
</table>

**170 Series Digital Multimeters**

Fluke®
The three models of the New 170 Series Digital Multimeters are the benchmarks for general purpose multimeters. They set the standard with a combination of precision, features, ease-of-use, safety and reliability. The Fluke 170 Series measure twice as fast as other multimeters. Ergonomic case with integrated protective holster and easy battery exchange without opening the case. All are CAT III rated for 1000V and CAT IV rated for 600V.

**Features**
- True-RMS Voltage and Current Measurements
- 0.09% Basic Accuracy (177/179)
- 6000 Count Resolution
- Digital Display with 33 Segment Analog Bargraph and Backlight (177/179)
- Smoothing Mode for Filtering of Rapidly Changing Inputs
- Frequency, Capacitance, Resistance, Continuity and Diode Measurements, Temperature Measurements (179 Only)
- Manual and Automatic Ranging
- Display Hold and Auto Hold
- Min/Max/Average Recording
- Closed Case Calibration Through Front Panel

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>FLUKE-175 ESFP</td>
<td>99713507</td>
<td>General Purpose DMM</td>
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<tr>
<td>FLUKE-177 ESFP</td>
<td>99713508</td>
<td>General Purpose DMM with Backlight</td>
</tr>
<tr>
<td>FLUKE-179 ESFP</td>
<td>99713509</td>
<td>General Purpose DMM with Backlight and Temperature</td>
</tr>
</tbody>
</table>

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Don't see what you need? Please contact your nearest Graybar office!
187/189 Digital/Analog Multimeters

Fluke

The Fluke 187 and 189 Digital/Analog Multimeters are the only choice for users who simply want the best meter available. Impressive performance, extremely fast readings, amazing features and astonishing extras make them the smartest meters. Model 189 has readings memory for up to 100 readings and its internal memory allows stand-alone logging of up to 1000 measurements. Both are CAT III rated for 1000V and CAT IV rated for 600V and come with a Lifetime Warranty.

Features

- Dual Display (50,000 Counts) With Bar graph and 2-Level Backlight
- 0.025% Basic DC Accuracy
- True-RMS AC/DC Measurements
- 100 KHz AC Bandwidth for Voltage and Current
- Ergonomic High-Impact Overmolded Case
- Min/Max/Average With Real Time Clock and 250μs Fast Min-Max
- Frequency, Capacitance, Duty Cycle, Pulse Width, Resistance, Conductance, Continuity and Diode Measurements
- Temperature and dBV/dBm With Selectable Reference
- PC Interface for Data Exchange and Closed Case Calibration
- Battery and Fuse Access Without Breaking Calibration Seal

73/77 Series III Digital Multimeters

Fluke

Models 73 and 77 Series III Digital Multimeters are an important part of Fluke’s reputation and have become the preferred models for a large number of professionals. They offer exactly the right fit for a wide range of measurements. The 73 III is perfectly suited for many electronic applications and has the “classic” 70 Series design with removable holster. The 77 III has all the features and functions for a wide range of industrial applications packaged in an ergonomic case with integrated holster. Both models come with the unique Lifetime Warranty. UL and CSA Listed.

73-III: All inputs are protected to EN61010-1 CAT II 600V
77-III: All inputs are protected to EN61010-1 CAT III 600V/CAT II 1000V

Features

- 0.3% Basic Accuracy
- 3200 Count Resolution
- Digital Display With Analog Bargraph
- Manual and Automatic Ranging
- Automatic Touch Hold
- Resistance, Continuity and Diode Measurements
- Sleep Mode to Preserve Battery Life

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUKE-73-3</td>
<td>97181358</td>
<td>Digital Multimeter, 600V</td>
</tr>
<tr>
<td>FLUKE-77-3</td>
<td>97181501</td>
<td>Digital Multimeter, 1000V</td>
</tr>
</tbody>
</table>

Graybar works when you work – use Graybar’s online web order management system and check product pricing, product availability, order status, and print your invoices whenever you want to. You can order products too – including will call orders that will be ready when you arrive to pick them up!
The Fluke 87V Digital Multimeter is a maintenance and calibration tool that will be at home in every instrumentation technician's tool box. It combines a Digital Multimeter (DMM) and a Loop Calibrator in one rugged, handheld tool for about what you would expect to pay for a loop calibrator alone. Based on the trusted Fluke 87 DMM, the 87V adds the ability to measure, source and simulate DC loop current with 0.05% accuracy and 1 microamp resolution. The Fluke 87V was the first tool to combine a DMM and a loop calibrator to give process technicians double the power in one tool. The range is now extended with the new Fluke 879, the ultimate loop calibration multimeter. The Fluke 879 has a 24-volt loop supply, reducing the need for taking a separate power supply when doing offline transmitter testing. With its built-in selectable 250-Ohm Hart® resistor, it also eliminates the need to carry a separate resistor with you. Now process technicians can do a lot more while carrying a lot less.

Additional features of the Fluke 879 include: 24V loop power supply, very large dual display, enhanced backlight with 2 brightness settings, 1200 Ohm drive capability on mA source, HART mode setting with loop power and a built-in 250 Ohm resistor, 0% and 100% buttons to toggle between 4 and 20 mA sourcing for a quick span check, externally accessible fuses for easy replacement and infrared-port to process data in FlukeView Forms (V2.1) software.

**Features**
- Precision 1000V, 400 mA True-RMS Digital Multimeter
- 0.1% DC Voltage Accuracy; 0.05% DC Current Accuracy
- Frequency Measurement to 20 kHz
- Min/Max/Average/Hold/Relative Modes
- Diode Test and Continuity Beeper
- Simultaneous mA and % of Scale Readout
- 20 mA DC Current Source/Loop Calibrator/Simulator
- Manual Step (100%, 25%, Coarse, Fine) Plus Auto Step and Auto Ramp
- Externally Accessible Battery for Easy Battery Changes
- Three-Year Warranty

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<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>FLUKE 83-5</td>
<td>22086755</td>
<td>Digital Multimeter, (DMM)</td>
</tr>
<tr>
<td>FLUKE 87-5</td>
<td>22086718</td>
<td>Digital Multimeter, (DMM), plus 24V Loop Supply and Larger Backlighted Display</td>
</tr>
</tbody>
</table>

Don't see what you need? Please contact your nearest Graybar office!
AC and AC/DC Current Clamps

Fluke®

Fluke Current Clamps are the ideal tools to extend the functionality of Fluke tools. And now, with the NEW I400 Current Clamp, Fluke can offer a CAT IV current measuring solution.

Benefits
- Extend the Use of Your Digital Multimeter to Include Current Measurement
- Take Accurate Current Readings Without Breaking the Circuit
- One-Year Warranty

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<tr>
<td>AC Current Clamps</td>
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<tr>
<td>I200</td>
<td>99421260</td>
<td>600V</td>
<td>40 kHz</td>
<td>70°C</td>
<td>0.8 in.</td>
<td>200A</td>
<td>0.03</td>
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<tr>
<td>I400</td>
<td>22124233</td>
<td>1000V</td>
<td>10 kHz</td>
<td>60°C</td>
<td>1.26 in.</td>
<td>400A</td>
<td>0.02</td>
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<tr>
<td>AC/DC Current Clamp</td>
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<td>I410</td>
<td>96092475</td>
<td>600V</td>
<td>100 kHz</td>
<td>60°C</td>
<td>1.18 in.</td>
<td>400A</td>
<td>0.03</td>
</tr>
</tbody>
</table>

PlatinumPro®

IDEAL INDUSTRIES, INC.

Multimeters/PlatinumPro 320 Series

Features
- Min/Max
- Data Hold
- Auto/Manual Ranging
- Data Hold
- Capacitance
- Frequency
- Auto Power Off
- Low Battery Indication
- Overload Protection on All Ranges
- CAT III - 1000V

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>61-320</td>
<td>22046949</td>
<td>Basic Multimeter (DMM)</td>
</tr>
<tr>
<td>61-322</td>
<td>22046950</td>
<td>True - RMS Voltage</td>
</tr>
<tr>
<td>61-324</td>
<td>22046951</td>
<td>True - RMS Voltage and Backlight</td>
</tr>
</tbody>
</table>

PocketPro Digital Multimeter

IDEAL INDUSTRIES, INC.

Features
- Low Cost, Multi-Function
- Convenient Pocket Size
- Built-In Test Stand
- Overload Protection on all Ranges
- Audible Continuity
- Auto Power Off
- Test Lead Storage

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>61-605</td>
<td>25000188</td>
<td>600 Series Pocket Meter</td>
</tr>
</tbody>
</table>

Prices on request  1-800-GRAYBAR  www.graybar.com

Don't see what you need? Please contact your nearest Graybar office!
The Fluke 321 and 322 Clamp Meters are designed to verify the presence of load current, AC voltage and continuity of circuits, switches, fuses and contacts. These small and rugged clamp meters are ideally suited for current measurements up to 400A in tight cable compartments. The Fluke 322 also offers DC voltage measurements and has a higher resolution for loads below 40A.

### Fluke 321 Clamp Meter
- Precise Measurements with 1.8% Basic Accuracy
- Resolution Up to 0.01A and 0.1V
- Measures AC Current to 400A and AC Volts to 600V
- Measures DC Volts to 600V (Fluke 322 Only)
- Resistance Measurement to 400 Ohms
- Continuity for Quick Checking of Shorts
- Automatic Low Battery Indicator
- Display Hold Function
- Two-Year Warranty

### Fluke 322 Clamp Meter
- Precise Measurements with 1.8% Basic Accuracy
- Resolution Up to 0.01A and 0.1V
- Measures AC Current to 400A and AC Volts to 600V
- Measures DC Volts to 600V (Fluke 322 Only)
- Resistance Measurement to 400 Ohms
- Continuity for Quick Checking of Shorts
- Automatic Low Battery Indicator
- Display Hold Function
- Two-Year Warranty
The Fluke 434 and 433 Three-Phase Power Quality Analyzers help you locate, predict, prevent and troubleshoot problems in power distribution systems. These complete three-phase troubleshooting tools measure virtually every power system parameter—voltage, current, frequency, power, power consumption (energy), unbalance and flicker, harmonics and inter-harmonics. They capture events like dips and swells, transients, interruptions and rapid voltage changes. These easy-to-use handheld tools have many innovative features to give you the details to pinpoint problems faster and safer and are a “must have” for any person who maintains or troubleshoots three-phase distribution. The new IEC standards for flicker and power quality are built right in to take the guess work out of monitoring. With the AutoTrend feature, there is no wasted time setting up additional trend graphs. Trends are analyzed using cursors and zoom function while recording continues in the background.

Safety Rating CAT IV 600V and CAT III 1000V.

Features
- Highest Safety Rating in the Industry
- AutoTrend Analyzes Trends Using Cursors and Zoom Function
- System-Monitor Allows Six Power Quality Parameters on One Dashboard
- Four Channels Simultaneously Measure Voltage and Current on all Three Phases and Neutral
- Automatic Transient Display Captures Up to 40 Dips, Swells, Interruptions or Transients Automatically
- Operates for More than Seven Hours on Included Rechargeable NiMH Battery Pack
- Includes FlukeView® Software to Transfer Stored Measurements to a PC (434 Only)
- Complies with IEC 61000-4-30 Measurement Standards
- Three-Year Warranty on Mainframe, 1-Year on Included Accessories

Included Accessories:
- Hard Carrying Case With Clamp Holders, BC430
- 4 Current Clamps, i400s
- 5 Test Leads (4 Black, 1 Green)
- 5 Alligator Clips (4 Black, 1 Green)
- Battery Charger Eliminator, BC430
- Optical Cable for USB, OC4USB (Fluke 434 Only)
- Color Localization Set, WC100
- Getting Started (Printed)
- User Manual (CD-ROM)

Prices on request! 1-800-GRAYBAR  www.graybar.com

Don’t see what you need? Please contact your nearest Graybar office!
The Fluke 1550B MegOhmMeter is a digital insulation tester capable of testing switchgear, motors, generators and cables at up to 5000V DC. It can be used for a wide range of tests—from simple spot checks to timed tests and breakdown tests. Measurement storage and PC interface software make it ideal for preventive maintenance. Heavy-duty leads, probes and alligator clips fit in the custom carrying case for a rugged field testing kit.

**Benefits**
- Capable of testing in 50V increments 250-1000V; 100V increments 1000-5000V
- Warning voltage function alerts user that line voltage is present
- Guard system eliminates effect of surface leakage current on high-resistance measurements
- Polarization index and dielectric absorption calculated automatically

**Features**
- Test voltages of 250V, 500V, 1000V, 2500V and 5000V
- Measures 0-1 Tera-Ohm
- Large, backlit display for easy readability
- 99 memory locations for storing measurement parameters
- Includes Quicklink 1550B software and optical interface cable
- Two-year warranty

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The Fluke 1507 and 1503 Insulation Testers are compact, rugged, reliable, and easy to use. With their multiple test voltages, they are ideal for many troubleshooting, commissioning, and preventative maintenance applications.

**Benefits**
- Remote test probe makes repetitive or hard-to-reach testing easier
- Live circuit detection prevents insulation test if voltage >30V is detected for added user protection
- Auto-discharge of capacitive voltage for added user protection
- Large, backlit display for easy readability

**Features**
- Large backlit LCD with analog bar graph and digital display
- 250V/500V/1000V output voltages for insulation resistance testing up to 4000 M Ohms
- Automatically switches to voltage measurement when voltage is greater than 30V AC or DC
- AC/DC voltage measurement up to 600V
- Lo-ohms function for testing connections
- Last reading memory display
- 4 C-cell batteries, battery-life indicator and auto shut-off
- Auto-discharge of capacitive voltage charges
- Rugged splash-proof case with impact absorbing holster
- Three-year warranty

---

The Fluke 1520 MegOhmMeter is a handy insulation resistance tester that also measures voltage and checks connections with its Lo-Ohms function.

**Features**
- Large backlit LCD with analog bar graph and digital display
- 250V/500V/1000V output voltages for insulation resistance testing up to 4000 M Ohms
- Automatically switches to voltage measurement when voltage is greater than 30V AC or DC
- AC/DC voltage measurement up to 600V
- Lo-ohms function for testing connections
- Last reading memory display
- 4 C-cell batteries, battery-life indicator and auto shut-off
- Auto-discharge of capacitive voltage charges
- Rugged splash-proof case with impact absorbing holster
- Three-year warranty

---

Don't see what you need? Please contact your nearest Graybar office!
**1587/1577 Insulation Multimeters**

**Fluke®**

The Fluke 1587 and 1577 Insulation Multimeters combine a digital insulation tester with a full-featured, True RMS digital multimeter in a single, compact, handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

**Benefits**

- Auto Discharge of Capacitive Voltage
- Remote Probe, Test Leads, Alligator Clips
- Live Circuit Detection Prevents Insulation Test if Voltage >30 V is Detected for Added User Protection
- Insulation Tests for the following:
  - 1577 0.10 (meg ohms) - 600 (meg ohms)
  - 1587 0.01 (meg ohms) - 2.0 (giga ohms)

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Test Voltage</th>
<th>Resistance Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1577</td>
<td>25019416</td>
<td>500V &amp; 1000V</td>
<td>50 Ω</td>
</tr>
<tr>
<td>1587</td>
<td>25019415</td>
<td>50V, 100V, 250V, 500V &amp; 1000V</td>
<td>50 Ω</td>
</tr>
</tbody>
</table>

**ScopeMeter® 190 Series**

**Fluke®**

The Fluke ScopeMeter 190C Series has specifications you typically only find on high-end bench oscilloscopes. They offer up to 200 MHz bandwidth for capturing high frequency signals as found in today's state-of-the-art electronics, and 2.5 GS/s real-time sampling and advanced memory and triggering functions. They're rugged, compact and battery powered.

Features include Frequency Spectrum Analysis using FFT (NEW), Digital Persistence for analyzing complex dynamic waveforms like on an analog scope, fast display update rate for seeing dynamic behavior instantaneously and waveform reference for visual comparisons and automatic pass/fail testing of waveforms.

**Features**

- High-Resolution Color Display
- High Waveform Resolution of 3000 Datapoints Per Channel
- Connect-and-View™ Automatic Triggering and a Full Range of Manual Trigger Modes
- Automatic Capture and Replay of 100 Screens
- 27,500 Points Per Input Record Length Using ScopeRecord™ Mode
- TrendPlot™ Paperless Chart Recorder for Trend Analysis Up to 22 Days
- Up to 1000V Independently Floating Isolated Inputs
- Vpwm Function for Motor Drive and Frequency Inverter Applications
- 1000V CAT II and 600V CAT III Safety Certified
- Four Hours Rechargeable NiMH Battery Pack

**1587/1577 Insulation Multimeters**

**Fluke®**

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUKE-196C/003</td>
<td>99919185</td>
<td>ScopeMeter 196C, Bandwidth 100 MHz Real Time</td>
</tr>
<tr>
<td>FLUKE-196C/003S</td>
<td>99919186</td>
<td>ScopeMeter 196C, 100 MHz, Includes SCC190 Kit Containing FlukeView Software for Windows</td>
</tr>
<tr>
<td>FLUKE-199C/003</td>
<td>99919187</td>
<td>ScopeMeter 199C, Bandwidth 200 MHz Real Time</td>
</tr>
<tr>
<td>FLUKE-199C/003S</td>
<td>99919188</td>
<td>ScopeMeter 199C, 200 MHz SCC190 Kit Containing FlukeView Software for Windows</td>
</tr>
</tbody>
</table>

**Digital Light Meter**

**Greenlee Textron**

Measures incandescent, fluorescent, metal halide, high-pressure sodium and halogen lamp output. Measures up to 50,000 lux. Peak and data hold means no lost measurements.

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-172</td>
<td>99422807</td>
<td>Digital Light Meter, accuracy rating 7%</td>
</tr>
</tbody>
</table>

**Prices on request** 1-800-GRAYBAR  www.graybar.com

Don't see what you need? Please contact your nearest Graybar office!
The new Fluke 52 Series II Contact Thermometer offers fast response and laboratory accuracy (0.05% + 0.3°C) in a rugged, handheld test tool.

**Features**
- Electronic Offset Function
- Measures J, K, T and E-Type Thermocouples
- Readout in °C, °F or Kelvin (K)
- Splash and Dust-Resistant Case Protected by Impact-Absorbing Holster
- User-Friendly Front Panel is Easy to Set Up and Operate
- Sleep Mode for Increased Battery Life (1000 Hours Typical)
- Battery Door for Easy Battery Replacement Without Breaking Calibration Seal
- Three-Year Warranty

---

**SureTest® Circuit Analyzer**

**Features**
- Tests AFCI’s and GFCI’s for Proper Operation
- True RMS
- Measures Voltage Drop Under 12A, 15A, 20A Load
- Line and Peak Voltage
- Identifies False Ground
- Frequency
- Ground Impedance
- Hot and Neutral Conductor Impedance
- Ground to Neutral Voltage
- Identifies Proper Wiring in 3 Wire Receptacles

---

**Ground Clamp Tester**

**Features**
- Large Clamp Size
- Simple and Fast Clamp-on Operation - No Leads, Auxiliary Rods or Spacing Requirements
- Direct Measurement of Ground Resistance from 0.01 Ω - 1200 Ω
- Direct Measurement of Ground Leakage Current Up to 30 amps
- Tests Grounding System Without Disconnecting the Ground Rod

---

**Megger® Insulation Tester**

**Features**
- Test Voltage: 250V/500V/1000V
- Test Inhibition Occurs Above 25V
- Analog/Digital Bar Graph
- AC/DC Voltage to 600V
- Auto Discharge
- Auto Power Off
- Auto Ranging
- Protective Rubber Boot
- Continuity with Ohms/200mA
- Backlight

---

**50 Series II Thermometer**

**Fluke®**

The new Fluke 52 Series II Contact Thermometer offers fast response and laboratory accuracy (0.05% + 0.3°C) in a rugged, handheld test tool.

The Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy. Relative time clock on MIN, MAX and AVG provides a time reference for major events. The Optional ToolPak accessory allows the thermometer to hang from any metal object (with rare earth magnet) or secure around a pipe (with hook-and-loop straps) for hands-free operation.

**Features**
- Electronic Offset Function
- Measures J, K, T and E-Type Thermocouples
- Readout in °C, °F or Kelvin (K)
- Splash and Dust-Resistant Case Protected by Impact-Absorbing Holster
- User-Friendly Front Panel is Easy to Set Up and Operate
- Sleep Mode for Increased Battery Life (1000 Hours Typical)
- Battery Door for Easy Battery Replacement Without Breaking Calibration Seal
- Three-Year Warranty

---

**Prices on request ■ 1-800-GRAYBAR ■ www.graybar.com**

Don’t see what you need? Please contact your nearest Graybar office!
60 Series Handheld Infrared Thermometers

With more than two decades of thermometry experience, Fluke knows temperature. They offer the latest in non-contact infrared temperature test tools, probes, accessories and application expertise for a complete range of applications. Fluke backs its tools with the industry’s best warranty and highest rated customer service.

Reach for a rugged Fluke 60 Series Infrared Thermometer for jobs requiring temperature measurement in hard-to-reach, hot, rotating or dangerous situations. Get accurate readings over a broad range of temperatures, -40°C to 760°C (-40°F to 1400°F).

Features
- Backlit Display for Poorly Lit Areas (61,63,66,68)
- Holds Temperature Readings (61,63,66,68)
- Rugged Rubber Overmolding (61,63,66,68)
- Enhanced Optics; Distance to Spot Ratio Up to 50:1 (63,66,68)
- Durable Plastic Storage Case (63,66,68)
- Adjustable Emissivity Setting for More Accurate Measurements (66,68)
- Log Measurements to Memory (66,68)
- Displays MIN/MAX/AVG Measurements (66,68)

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUKE61</td>
<td>22016567</td>
<td>Temperature Hold</td>
</tr>
<tr>
<td>FLUKE-63</td>
<td>22121320</td>
<td>Temperature Hold and Storage Case</td>
</tr>
<tr>
<td>FLUKE-66</td>
<td>22121322</td>
<td>Temperature Hold, Storage Case plus Adjustable Emissivity, Measurement Memory Log and Min/Max/Average Display</td>
</tr>
<tr>
<td>FLUKE-68</td>
<td>22121323</td>
<td>Temperature Hold, Storage Case plus Adjustable Emissivity, Measurement Memory Log and Min/Max/Average Display in addition to Wider Temperature Range.</td>
</tr>
</tbody>
</table>

Phase Rotation Tester

IDEAL INDUSTRIES, INC.

Features
- For Use up to 600V
- Broad Operating Range
- Color-Coded Insulators Over Alligator Clips
- Phase Sequencing (61-521)
- 5-Year Warranty (61-521)
- Includes Carrying Case
- 1-Year Warranty (61-520)

<table>
<thead>
<tr>
<th>Mfg. No.</th>
<th>Graybar ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>61-520</td>
<td>99433229</td>
<td>Phase Rotation Tester</td>
</tr>
<tr>
<td>61-521</td>
<td>22048854</td>
<td>3-Phase/Motor Rotation Tester</td>
</tr>
</tbody>
</table>