F-12 | F-12-4

F-13

F-14 | F-14-4

F-15 | F-15-4

F-16

F-17 | F-17-4
The F-Series Fittings will automatically seal when the system is pressurized with air, gas, or hydraulic pressure that presses the main seal against the test piece. There will be no need for wrenches to tighten and tape to seal. Ideal for piping, cooling, heating, fluid, hydraulic, pneumatic, etc. F-Series Fittings are not designed for or intended as permanent connections. Such use may result in inadvertent loosening and media loss.

- Rated for up to 4,000 psi
- Built in swivel
- Tightens by hand
- Non-destructive connections
- Sizes NPT, Internal and External threads
- IEC Transmitter threads
- Sizes to fit Swagelok®, Parker and other Tube fittings

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-12</td>
<td>⅛&quot; NPT Female x 9/16-20 Swagelok®</td>
<td>$132</td>
</tr>
<tr>
<td>F-12-4</td>
<td>¼&quot; NPT Female x 9/16-20 Swagelok®</td>
<td>$132</td>
</tr>
<tr>
<td>F-13</td>
<td>⅛&quot; NPT Female x ⅜&quot; NPT Male</td>
<td>$124</td>
</tr>
<tr>
<td>F-14</td>
<td>⅛&quot; NPT Female x ⅜&quot; NPT Female</td>
<td>$124</td>
</tr>
<tr>
<td>F-14-4</td>
<td>¼&quot; NPT Female x ⅜&quot; NPT Female</td>
<td>$124</td>
</tr>
<tr>
<td>F-15</td>
<td>⅛&quot; NPT Female x ¼&quot; NPT Male IEC</td>
<td>$109</td>
</tr>
<tr>
<td>F-15-4</td>
<td>¼&quot; NPT Female x ¼&quot; NPT Male IEC</td>
<td>$109</td>
</tr>
<tr>
<td>F-16</td>
<td>⅛&quot; NPT Female x 7/16-10 Swagelok®</td>
<td>$132</td>
</tr>
<tr>
<td>F-16-4</td>
<td>¼&quot; NPT Female x 7/16-10 Swagelok®</td>
<td>$132</td>
</tr>
<tr>
<td>F-17</td>
<td>⅛&quot; NPT Female x ¼&quot; NPT Male</td>
<td>$109</td>
</tr>
<tr>
<td>F-17-4</td>
<td>¼&quot; NPT Female x ¼&quot; NPT Male</td>
<td>$109</td>
</tr>
</tbody>
</table>

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
| **P-Series** | **C-Series** | **XPNT | RT-1** |
|---|---|---|
| **Swivel Plugs** | **Swivel Caps** | **Fitting & Vent Tab** |
| **P-15** | **C-15** | **XPNT** |
| ⅛” NPT | ⅛” NPT | ¼” NPT For Crystal® XP2i Gauge |
| **P-16** | **C-16** | **RT-1** |
| ¼” NPT | ¼” NPT | ¼” NPT For Rosemont® Gauges |
| **P-17** | **C-17** |  |
| ⅜” NPT | ⅜” NPT |  |
| **P-18** | **C-18** |  |
| ½” NPT | ½” NPT |  |

Easily plug any port
No tools, no tape
Plug style, twist to connect for instant connection to NPT male pressure port threads.

Cap style, twist to connect for instant connection to NPT male pipe end threads.

Model XPNT: ¼” NPT Male to CPF Male
Model RT-1: ¼” NPT to 7/16:20
Model XPNT Colt fitting replaces expensive, easily damaged bottom fitting for the XP2i gauge port.
Model RT-1 Vent Tab makes calibration through the vent port easily.
Colt calibration hoses are flexible, leak proof and stabilize quickly without stretching. The provided swivel fittings prevent kinking and will work with any calibrator, gauge or pump part. You can fully customize your length or fittings to make the Colt hoses positively the best connection you could have! Swagelok ends available.

The options for fittings are: ⅛ NPT male, ⅛ NPT female, ¼ NPT male, ¼ NPT female, ¼ mini-mess female, Swagelok tube male.

**HK-1**
2’ Standard Hose for MP-P & MP-V.
⅛” NPT male x ⅛” NPT female.

**HK-600**
2’ Standard Hose for MVP-600 & M-80
⅛” NPT male x ¼” NPT female.

**HK-HP**
3’ High Pressure Hose *

**TP-4**
Test point ¼” - connects to mini mess fitting.

*Note: Please add $20 per extra foot.

**FEATURES**

- 10,000 psi working pressure
- 32,000 psi burst pressure
- Pneumatic & hydraulic applications
- Small in diameter (3/16” OD)
- High Pressure Hose made of Kevlar & Steel
- Any length & any fitting configuration

---

**DESCRIPTION**

Colt calibration hoses are flexible, leak proof and stabilize quickly without stretching. The provided swivel fittings prevent kinking and will work with any calibrator, gauge or pump part. You can fully customize your length or fittings to make the Colt hoses positively the best connection you could have! Swagelok ends available.

The options for fittings are: ⅛ NPT male, ⅛ NPT female, ¼ NPT male, ¼ NPT female, ¼ mini-mess female, Swagelok tube male.

**MODELS / EXTRAS**

- **HK-1**: 2’ Standard Hose for MP-P & MP-V.
  ⅛” NPT male x ⅛” NPT female.
  Price: $68

- **HK-600**: 2’ Standard Hose for MVP-600 & M-80
  ⅛” NPT male x ¼” NPT female.
  Price: $95

- **HK-HP**: 3’ High Pressure Hose *
  Price: $199

- **TP-4**: Test point ¼” - connects to mini mess fitting.
  Price: $65

---

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
### DESCRIPTION

**MODEL 1** replaces the need to use many gauges of different ranges to achieve and maintain high accuracy. **Model 1** also functions as an absolute pressure gauge. The auto-ranging technology uses multiple piezoresistive sensors to read the entire range using just one gauge where it would otherwise require up to seven of our closest competitors’ digital gauges. Certification costs are lowered by reducing the number of gauges. It’s rugged, shockproof design comes equipped with a protective rubber housing. Large, easy-to-read, one-line display with vibrant backlight is perfect for any light condition.

**MODEL 2** will replace the need to use many gauges of different ranges to achieve and maintain high accuracy (0.05% f.s.) throughout a wide span (2,500-10,000 psi). The need for multiple gauges is eliminated. The **Model 2** is explosion proof and fully temperature compensated. It has a large, vibrant one line display. It is housed in a high impact, sturdy case with an optional rubber boot for additional protection. **Model 2** runs on three AA batteries. This gauge is destined to become the standard of the industry!

### FEATURES

- **Accuracy:** 0.1% of reading from absolute zero to 3,000 psi
- **Units:** psi, Bar, psia, inH₂O, inHg, mmHg, Absolute
- **Temp Compensation:** -10°C to +50°C (14-122°F)
- **Connections:** 1/4” NPT Male
- **2 Year Quibble-Free Warranty**
- **Weight:** 2 lbs

- **Accuracy:** 0.05% of full scale from 0 to 10,000 psi
- **Units:** psi, Bar
- **Temp Compensation:** -10°C to +50°C (14-122°F)
- **Connections:** 1/4” NPT Male
- **2 Year Quibble-Free Warranty**
- **Weight:** 2 lbs

### MODELS / EXTRAS

<table>
<thead>
<tr>
<th>MODEL 1</th>
<th>$1,100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook</td>
<td></td>
</tr>
<tr>
<td><strong>MODEL 1KT</strong></td>
<td>$1,249</td>
</tr>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MVP-600WIN</th>
<th>$1,850</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook, MVP-600 Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings, additional rubber bonded washers and (2) adaptors</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M-10WIN</th>
<th>$2,289</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook, MVP-600 Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings, additional rubber bonded washers and (2) adaptors</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>M-80WIN</th>
<th>$2,650</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook, MVP-600 Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings, additional rubber bonded washers and (2) adaptors</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>MODEL 2</th>
<th>$999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook</td>
<td></td>
</tr>
<tr>
<td><strong>MODEL 2KT</strong></td>
<td>$1,124</td>
</tr>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook, MVP-600 Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings, additional rubber bonded washers and (2) adaptors</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>M-10WIN2</th>
<th>$2,289</th>
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</thead>
<tbody>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook, MVP-600 Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings, additional rubber bonded washers and (2) adaptors</td>
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</table>

<table>
<thead>
<tr>
<th>M-80WIN2</th>
<th>$4,875</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes Gauge, NIST certification, case, versatile hook, MVP-600 Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings, additional rubber bonded washers and (2) adaptors</td>
<td></td>
</tr>
</tbody>
</table>

+ $49 Rubber Boot

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
The M-4 analog gauge comes in a variety of display sizes and ranges to suit your exact needs. The protective rubber boot will ensure it the best protection from the rugged use in heavy duty industrial environments. Its face is made of laminated safety glass and the pointer is adjustable. It is hermetically sealed and weather proof. All wet parts are 316SS.

The M-2 analog gauge comes in a variety of display sizes and ranges to suit your exact needs. The protective rubber boot will ensure it the best protection from the rugged use in heavy duty industrial environments. Its face is made of laminated safety glass and the pointer is adjustable. It is hermetically sealed and weather proof. All wet parts are 316SS.

### M-2 Analog Gauge
2.5” display.

### M-4 Analog Gauge
4” display with protective boot.

### M-6 Analog Gauge
6” display with protective boot.

+ $50 NIST Calibration Certificate
+ $35 Glycerin Filled - *2 Year Quibble-Free Warranty only with this option added.

All models are available in the following RANGES:

<table>
<thead>
<tr>
<th>Range</th>
<th>M-2</th>
<th>M-4</th>
<th>M-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>30” -0 hg vac</td>
<td>30” -0.200</td>
<td>30” -0.200</td>
<td>0-100 psi</td>
</tr>
<tr>
<td>30” -0.15</td>
<td>30” -0.300</td>
<td>30” -0.300</td>
<td>0-160 psi</td>
</tr>
<tr>
<td>30” -0.30</td>
<td>30” -0.600</td>
<td>30” -0.600</td>
<td>0-200 psi</td>
</tr>
<tr>
<td>30” -0.60</td>
<td>0-15 psi</td>
<td>0-200 psi</td>
<td>0-300 psi</td>
</tr>
<tr>
<td>30” -0.100</td>
<td>0-30 psi</td>
<td>0-200 psi</td>
<td>0-400 psi</td>
</tr>
<tr>
<td>30” -0.150</td>
<td>0-60 psi</td>
<td>0-200 psi</td>
<td>0-600 psi</td>
</tr>
</tbody>
</table>

*All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com*
## Hydraulic Calibration Hand Pump

- **Range:** 0-10,000 PSI (700 Bar)
- **Compatible with most hydraulic fluids, oils, H2O**
- **Connections:** 1/4” NPT/BSP
- **Weight:** 3 lbs

**Features:**
- Utilizes a fully adjustable stroke control for quick priming, easy pumping, and fast pressure generation up to 10,000 psi (700 bar).
- The ergonomic handles provide extra comfort and reduce hand fatigue.
- The patented triple filtration system ensures pump operation in dirty conditions.
- The shatterproof reservoir and stainless steel construction guarantee leak free operation.
- The pump has over-sized check valves to provide smooth controlled operation. It uses a patented protective cage around the vent knob to prevent damage when dropped.

**Models & Extras:**
- **M-10**
- **M-10KT**
  - Includes Pump, a black padded canvas case embroidered with orange thread, 3ft high pressure hose, fittings, 3 filters, test point, adaptor, and fluid bottle *
- **M-10WIN**
  - Includes everything in the M-10KT plus Winchester Engineering Model 1 Auto Ranging Digital Gauge™ w/ N.I.S.T certification and versatile hook *
- **M-10WIN-FIT**
  - Includes everything in the M-10WIN plus FasTest universal quick connect kit and coupler for Swagelok tube fittings *
- **M-10RK**
  - Rebuild Kit for M-10

**Pneumatic Calibration Combination Hand Pump**

- **Range:** Vacuum 28”Hg to Pressure 600 PSI (40 Bar)
- **Compatible with all gauges and calibrators**
- **Connections:** 1/4” and 1/8” NPT/BSP
- **Weight:** 2 lbs

**Features:**
- Produces pneumatic pressure and vacuum to check calibration of gauges, switches, transmitters, and recorders.
- The contoured cushioned handles provide extra comfort while preventing the pump from sliding.
- The over-sized check valve provides smooth operation throughout the output range while the dual o-rings on all pistons ensure zero leakage.
- Patented Mash proof vent valve comes standard on all MVP-600s (No Needle Valve) and a non-oil based lubricant is used on all moving parts.

**Models & Extras:**
- **MVP-600**
- **MVP-600KT**
  - Includes Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings, additional rubber bonded washers and (2) adaptors
- **MVP-600WIN**
  - Includes everything in the MVP-600KT plus Winchester Engineering Model 1 Auto Ranging Digital Gauge™ w/ N.I.S.T certification and versatile hook *
- **MVP-600WIN-FIT**
  - Includes everything in the MVP-600WIN plus FasTest universal quick connect kit and coupler for Swagelok tube fittings *
- **MVP-600RK**
  - Rebuild Kit for MVP-600

*Note: Kits, hoses, and fittings can be customized upon request.

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All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
### Magnum Low Pro Volume Pressure Chamber

- **Range:** Near absolute vacuum (30" Hg to 80 PSI)
- **Resolution:** 0.0001 PSI
- **Bench Mountable**
- **2 Year Quibble-Free Warranty**
- **Weight:** 3.5 lbs

**Features:**
- Capable of extremely high resolution (0.0001 psi) as it spans the range of near absolute vacuum to low pressures (30" Hg to 80 PSI).
- It's rugged outer housing and dual o-ring design ensures zero leakage. Not only is the M-80 bench mountable, but it's relative light weight (3.5 lbs) makes it perfect for field use as well.
- Optional power drive supplied to rotate the vernier at a quicker pace in-order to speed up your calibrations.

### Pressure • Vacuum Calibration Pump

- **Range:** 0 PSI to 100 PSI (7 Bar) | 28" Hg to 0 PSI
- **Compatible with all gauges and calibrators**
- **Connections:** 1/8" NPT/BSP
- **2 Year Quibble-Free Warranty**
- **Weight:** 1 lb

**Features:**
- Features a Delrin® plastic handle that prevents body heat transfer from interfering with readings, as well as an oversized check valve for smooth operation. The dual o-rings on all pistons ensure zero leakage. MP-P and MP-V have been in service for over 10 years and can now be found in over one third of all power plants. Both models will out perform any manufactured pump in it's category.

#### MODELS / EXTRAS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-80</td>
<td>Pressure Chamber, ball valve, (2) 2ft non-stretch hoses w/ fittings, a portable handheld power drive, rechargeable lithium battery, and charger.</td>
<td>$1,399</td>
</tr>
<tr>
<td>M-80KT</td>
<td>includes Pressure Chamber, ball valve, (2) 2ft non-stretch hoses w/ fittings, a portable handheld power drive, rechargeable lithium battery, and charger.</td>
<td>$1,497</td>
</tr>
<tr>
<td>M-80WIN</td>
<td>includes everything in the M-80KT plus Winchester Engineering Model 1 Auto Ranging Digital Gauge™ (absolute vacuum to 3K PSI) w/ N.I.S.T. certification.</td>
<td>$2,650</td>
</tr>
<tr>
<td>M-80TH</td>
<td>includes everything in the M-80KT plus a Thommen® differential pressure calibrator (0.1% accuracy full scale with a resolution of 0.001&quot; H2O differential).</td>
<td>$3,649</td>
</tr>
<tr>
<td>MP-P</td>
<td>Pressure Chamber, ball valve, (2) 2ft non-stretch hoses w/ fittings, a portable handheld power drive, rechargeable lithium battery, and charger.</td>
<td>$399</td>
</tr>
<tr>
<td>MP-KPT</td>
<td>Pressure Chamber, ball valve, (2) 2ft non-stretch hoses w/ fittings, a portable handheld power drive, rechargeable lithium battery, and charger.</td>
<td>$497</td>
</tr>
<tr>
<td>MP-PKT</td>
<td>includes Pump, a black padded canvas case embroidered with orange thread, 2ft non-stretch hose, fittings and Winchester Engineering M-2 stainless steel 2.5&quot; analog gauge w/ protective rubber boot.*</td>
<td>$1,100</td>
</tr>
<tr>
<td>MP-PKT-FIT</td>
<td>includes everything in the MP-PKT</td>
<td>$1,100</td>
</tr>
<tr>
<td>MP-PKT-FIT</td>
<td>plus FasTest universal quick connect kit and coupler for Swagelok tube fittings.*</td>
<td>$1,100</td>
</tr>
<tr>
<td>+HK-1</td>
<td>adds a 2ft non-stretch hose kit w/ fittings for side port to any model.*</td>
<td>+$68</td>
</tr>
<tr>
<td>MP-PRK</td>
<td>Rebuild Kit for MP-P or MP-V.</td>
<td>$120</td>
</tr>
</tbody>
</table>

*Note: Kits, hoses, and fittings can be customized upon request.

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All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
**Magnum Pro**

**Pneumatic Power Pump**

Fluids in a transmitter or delicate system have always been a concern. Magnum Pro introduces the only fully versatile high pressure pneumatic pump capable of generating pressure up to 3,000 psi without liquid or the use of nitrogen. Two support legs fold out to stabilize the pump so it can be operated by either foot or hand. The vernier allows the pressure to be finely adjusted and sealed off to dial into the desired pressure.

- **Range:** 0 to 3,000 PSI
- **Light weight**
- **Easy to set up**
- **Pump with hand or foot**
- **No heavy nitrogen bottles necessary.**

**Features**

- Has 2 ports, one for a gauge and one for a hose.
- No contamination of process system with oils & water.
- Won’t freeze in low temp from water intrusion.
- Can be used on a bench or taken out to the field.
- 2 Year “Quibble-Free” warranty.

**Models / Extras**

**PP-4**

- $3,499
- Includes Pump, Manifold, (2) Sft high pressure hose, fittings.

**PP-4WIN**

- $4,499
- Includes everything in the PP-4 plus Winchester Engineering Model 1 Auto Ranging Digital Gauge.

**PP-4WIN2**

- $4,499
- Includes everything in the PP-4 plus Winchester Engineering Model 2 Wide Range Digital Gauge.

**Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com**
**Fluke 754**

- **Digital Multimeter With Built-in Thermal Imager**
- Full-featured documenting process calibrator with HART communication for calibrating and troubleshooting HART instrumentation.
- Measures volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors, transmitters and more.
- The 754 measure volts, mA, RTDs, thermocouples, frequency, ohms to test sensors, transmitters and other instruments. Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, & pressure to calibrate transmitters. Power transmitters during test using loop supply with simultaneous mA measurement. Measure/source pressure using any of 29 Fluke pressure modules. Advanced features like autostep, custom units, user entered values during test, one-point and two-point switch testing, square root DP flow testing, programmable measurement delay and more.

---

**Fluke 718**

- **Pressure Calibrator**
- Accuracy: 0.025% full scale
- Functions: Zero, min/max, hold, damp
- Weight: 992 g (35 oz)
- Battery life: 4 to 20 hours typical
- Warranty: Three years (one year on pressure pump)
- Display: LCD, 5 digit pressure & current simultaneous measurement

- The Fluke 718 Pressure Calibrator provides a total pressure calibration solution for transmitters, gauges and switches. This compact pressure calibration solution is about a third of the size of comparable instruments and weighs just one kilogram (two pounds). The unique easy to clean pump helps protect the pump from damage and provides the ability to service the pump without disassembly, even in the field.

---

**Fluke 754**

- $7,754
- Includes three sets of stackable test leads, three sets of TP220 test probes with three sets of “extended tooth” alligator clips, two sets AC280 hook clips, BP7240 Li-ion battery pack, BC7240 battery charger, C799 field soft case, USB communication cable, Getting started guide, Instruction manual on CDROM, NIST traceable certificate of calibration, DPCTrack™ 2 sample software, HART communication cable

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**Fluke 718**

- **Models / Extras**
- **Fluke 718 1G**
  - $2,718
  - 1 to 1 psi, (-68.9 mbar to 68.9 mbar, -6.89 to 6.89 kPa)
- **Fluke 718 30G**
  - $2,718
  - 12 psi to 30 psi, (-850 mbar to 2 bar, -85 to 206.84 kPa)
- **Fluke 718 100G**
  - $2,718
  - 12 psi to 100 psi, (-850 mbar to 7 bar, -85 to 689.48 kPa)
- **Fluke 718 300G**
  - $2,718
  - 12 psi to 300 psi, (-850 mbar to 20 bar, -85 to 2068.42 kPa)

- All models include: Protective Yellow Holster with test lead storage, Instructions Sheet (14 languages), Test Leads and Alligator Clip, Two 9V alkaline batteries, NIST Traceable calibration report and data.

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All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
Fluke 87v

Industrial True-RMS Multimeter with Temperature

Multiple Ranges
True-RMS AC voltage and current
0.05% DC accuracy
4.5 digit mode for precise measurements
Min/Max and average recording
Category III, 1000 V and Category IV, 600 V

Fluke 789

Process Meter with 250 Ohm HART Resistor

24 V Loop power supply
Very large dual display
Enhanced backlight with 2 brightness settings
1200 Ohm drive capability on mA source
Precision 1000 V, 440 mA True-RMS digital Multimeter
Frequency measurement to 20 kHz

Fluke 87v

$399

includes TL75 test leads, AC72 alligator clips, holster, 9V battery, temperature probe, CD-ROM user’s manual and operator’s guide.

Fluke 789

$999

includes alligator clips, test lead set, Holster & Flex Stand, 4 AA alkaline batteries, Quick reference guide, Manual PLUS built-in 24V loop power supply and 250 Ω HART resistor.

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
## Digital Multimeter With Built-in Thermal Imager

- **15 measurement functions:** AC voltage w/ low-pass filter, DC voltage, Resistance, Continuity, Capacitance, Diode test, Min/Max/Avg, AC current (iFlex), Frequency.
- Save measurements and images wirelessly with a smart phone up to 20 feet/6.1 m away (no obstructions)

The Fluke 279 FC Thermal Multimeter is an industry-first combination multimeter and thermal imager. Diagnose underlying electrical problems quickly and more efficiently with this full-featured tool. The 279 helps you find, repair, validate, and report many electrical issues quickly so that you are confident problems are solved. Check hot spots of high-voltage equipment and transformers, detect heating of fuses, wires, insulators, connectors, splices and switches.

### Fluke 279FC

- Price: $949
- Includes Test Leads, Rechargeable Lithium Ion Battery and Charger.

---

## Milliamp Process Clamp Meter

- **Best in class 0.2% accuracy**
- Resolution and sensitivity to 0.01 mA
- Dual display with both mA measurement and 0% to 100% of 4-20 mA span
- IEC-1010 Category II 300V rating

The Fluke 771 Milliamp Process Clamp Meter ("the Meter") is a hand-held battery-operated clamp meter that measures 4-20 mA dc without breaking the electrical circuit. Unlike conventional clamp meters, the Meter features a remote jaw that is connected to the main body via extension cable. It can measure low level dc current, measure 10 to 50 mA signals in older control systems, and up to 99.9 mA range non-contact. Also, the 771 illuminates hard to see wires in dark enclosures and automatically powers off to ensure battery stays charged for when you really need it.

### Fluke 771

- Price: $699
- Includes soft carrying case.

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All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
The Condec Source 3000 is a pneumatic pressure source that offers a clean and dry pressure up to 3,000 psi. It’s pressure generator is equipped with a large-capacity cylinder that ensures you won’t run out of nitrogen in the middle of a job. It eliminates the inconvenience and physical stress of hand pumps. It has two ports for connecting to a measuring device and virtually any electronic calibrator. The Source 3000 is a unique device that incorporates a pressure vernier to allow you to dial in exact pressure readings, which eliminates the risk of costly damage from overshoot.

The Cylinder Regulator Assembly (CYLREG) allows the operator to ensure a properly regulated pressure output from an existing “in-house” Nitrogen Supply Cylinder that has a Maximum Charge of 3,000 psig. CYLREG has Maximum input pressure rating of 3,000 psig and a Maximum operator controlled regulated output pressure based on selected model.
**ThermCal 400**

**Dry Block Temperature Calibrator**

- **Range:** 25°C - 400°C (20°C ambient)
- **Stability:** ±0.02°C (25°C - 200°C) | ±0.04°C (200°C - 400°C)
- **Accuracy:** ±0.25°C (25°C - 200°C) | ±0.4°C (200°C - 400°C)
- **Weight:** 11 lbs

Heat up time 25 to 400°C: 13 Minutes
Cooling time 400 to 100°C: 20 Minutes

The ThermCal 400 is a small, portable and lightweight calibrator that is built rugged for field work with specifications good enough to be a laboratory standard. Perform calibration checks on liquid in glass thermometers, dial thermometers, hand held digital indicators, probe assemblies, systems and virtually dozens of other temperature monitoring and recording devices. Checking the performance and accuracy of a temperature sensor is best performed by placing it in precise environment at its true operating temperature.

**Inserts**

- Insert Blank: $160
- Insert 5 x 1/4" holes: $195
- Insert 2 x 1/4" & 2 x 3/8" holes: $195
- Insert 2 x 1/4" & 2 x 1/2" holes: $195
- Insert 1 x 1/4" hole: $195
- Insert 1 x 9/16" & 1 x 1/4" holes: $195
- Insert 1 x 5/8" & 1 x 1/4" holes: $195
- Insert 1 x 11/16" & 1 x 1/4" holes: $195
- Insert 1 x 3/4" & 1 x 1/4" holes: $195
- Soft sided carrying case with insert pockets: $145

**ThermCal 130**

**Temperature Calibrator**

- **Range:** -4 to 266°F (-20 to 130°C)
- **Accuracy:** ±0.4°C | **Stability:** ±0.05°C

Lightweight and portable for use in the field
CE marked for safety
Designed & manufactured in the USA
L8 x W9 x H10" • Weight: 17 lbs

The ThermCal 130 temperature calibrator is a small, rugged, portable and lightweight dry block that is easy to use straight out of the box and provides specifications good enough to be a laboratory standard, while being small enough to use in the field. Compatible with a variety of removable insets, the ThermCal 130 is ideal for calibrating liquid in glass thermometers, dial switches, RTDs/PRTs, thermocouples and dozens of other temperature monitoring and recording devices.
### PIECAL 850

**10-50 mA Multifunction Process Calibrator**

The PIECAL 850 is more than a multifunction calibrator. It is also a loop detective that is able to diagnose common problems that other test equipment just cannot find, such as ground fault. Or use the LoopScope to see at a glance all the parameters - milliamps, voltage and resistance - in the loop.

**DESCRIPTION**

- Calibrate with Confidence: Accurate to ±0.02% of Reading ± 0.01% Full Scale.
- Lighten up your toolbox: Pocket sized calibrator replaces toolbox of single function devices, Milliamp, Voltage, Frequency, pH, Ohms, Thermocouples, RTDs, Pressure, Loop Diagnostics, Transmitter Supply.
- Guaranteed Compatibility with process inputs: Compatible with the instruments you use including all brands of smart transmitters and PLCs with 14 T/C and 9 RTD types to 0.1°C and 0.1°F.
- Detect hidden loop problems: Quickly diagnose troublesome ground faults & current leakage with patented Loop Diagnostic technology. These problems are undetectable with other instruments!
- Check all loop parameters at once with the LoopScope: Simultaneously displays current, voltage, and resistance to let you know the condition of a live loop. Finds problems with power supplies & loops with too many loads. Patented by PIE Instruments.
- Troubleshoot wiring problems without a multimeter: Built in continuity checker with beeper quickly finds broken wires or shorts in instrumentation wiring. Also handy for checking operation of relays and controller outputs.

**FEATURES**

- Patented Loop Diagnostic technology.
- LCD indicates which of the four wires are connected to an RTD sensor.
- Universal isolated transmitter for temperature, frequency, millivolt or pressure.

**MODELS / EXTRAS**

- PIE 850 includes rubber boot, custom carrying case, test leads, RTD wire kit, batteries, calibration certificate.
- T/C - J, T, E, K mini plug w/ stranded wire, lead kit: $145
- NiMh Charger & 4 “AA” batteries: $80

**Price**

- PIE 850: $4,599

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### PIECAL 830

**High Accuracy Multifunction Diagnostic Calibrator w/ Dual Display**

The PIECAL 830 is more than a multifunction calibrator that can handle Milliamp, Voltage, Frequency, pH Ohms, Thermocouples, RTDs, Pressure, Loop Diagnostics, Transmitter Supply. It is also a loop detective that is able to diagnose common problems that other test equipment just cannot find, such as ground fault.

**DESCRIPTION**

- Calibrate with Confidence: Accurate to ±0.02% of Reading ± 0.01% Full Scale.
- Detect hidden loop problems: Quickly diagnose troublesome ground faults & current leakage with patented Loop Diagnostic technology. These problems are undetectable with other instruments!
- Check all loop parameters at once with the LoopScope: Simultaneously displays current, voltage, and resistance to let you know the condition of a live loop. Finds problems with power supplies & loops with too many loads. Patented by PIE Instruments.
- Automatically detect 2, 3 or 4 wire RTDs: Trouble shoot sensor connections and find broken wires with patented technology. LCD indicates which of the four wires are connected to an RTD sensor.
- Swap out faulty transmitters to diagnose control issues: Easily setup the 830 as a universal isolated transmitter for temperature, frequency, millivolt or pressure. If the loop is back under control you know the transmitter was faulty. Turn on the LoopScope to simultaneously see the loop current, power supply voltage and loop loads for troubleshooting.
- Troubleshoot wiring problems without a multimeter: Built in continuity checker with beeper quickly finds broken wires or shorts in instrumentation wiring. Also handy for checking operation of relays and controller outputs.

**FEATURES**

- Patented Loop Diagnostic technology.
- LCD indicates which of the four wires are connected to an RTD sensor.
- Universal isolated transmitter for temperature, frequency, millivolt or pressure.

**MODELS / EXTRAS**

- PIE 830 includes rubber boot, custom carrying case, test leads, RTD wire kit, batteries, calibration certificate.
- T/C - J, T, E, K mini plug w/ stranded wire, lead kit: $145

**Price**

- PIE 830: $3,149
**Multifunction Process Calibrator**

The PIECAL 820 process calibrator packs the power of six single function calibrators into one surprisingly small package. It combines advanced features, ease of use, accuracy, signal compatibility and compact size. Essentially functions as a Fluke™ 743 without pressure and documentation functions.

**Automated Thermocouple & RTD Calibrator**

The PIECAL 525B thermocouple and RTD calibrator is an automated, high accuracy instrument designed to calibrate all your thermocouple and RTD instruments and measure temperature sensors.

**Lighten up your toolbox**

Pocket sized calibrator replaces toolbox of single function devices, Milliamp • Voltage • Frequency, Thermocouples • RTDs • Check Continuity.

**Technician friendly operation**

Intuitive EZ-DIAL Double Click Menu makes it easier to setup than other multifunction calibrators. Uses the same menus as the single function PIECAL Evolution Calibrators.

**Use it as a milliamp and voltage calibrator**

Source 0 to 24.00 mA, 0 to 10.25v dc and -10.00 to 110.00 mV, Read to 24.00 mA, ±60.00 v dc and ±10.00 to 110.00 mV, Simulate 2-Wire Transmitters, Power up transmitters & loops with the built-in 24v power supply, Simplify HART hookups with built-in 250 Ohm resistor.

**Calibrate directly in temperature (°C & °F)**

The PIECAL 820 works with the instruments you use. Types J, K, T, E, R, S, B, N, G, C, D, L (J DIN), U (T DIN) and P (Platinel II). Pt 10 Ohm (3850, 3902, 3916, 3926) & 1000 Ohm (3850) Copper 10 & 50 Ohm and Ni 120 Ohm.

**Checkout flow and vibration systems**

Source & read frequency to 2000 CPM (Counts-Per-Minute), 999.00 Hz, 9999.9 Hz, 9.9999 kHz & to 20.000 kHz.

**Troubleshoot loop & wiring problems**

‘Beep’ out connections with the built-in continuity checker.

**PIE 820..............................................................$2,169**

includes rubber boot, custom carrying case, test leads, RTD wire kit, batteries, calibration certificate.

**T/C - J,T,E,K mini plug w/ stranded wire, lead kit.......$145**

**PIE 525B.............................................................$1,599**

includes rubber boot, custom carrying case, mV leads, RTD wire kit, batteries, calibration certificate.

**T/C - J,T,E,K mini plug w/ stranded wire, lead kit.......$145**

**T/C - B,R/S,N mini plug w/ stranded wire, lead kit....$145**

**T/C - B,R/S,N mini plug w/ stranded wire, lead kit....$145**

**PIE RTD Wire Kit..................................................$165**

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**Calibrate T/C instruments to 0.1 & 0.01 °F & °C**

Types J, K, T, E, R, S, B, N, G, C, D, L (J DIN), U (T DIN) & P (Platinel): -13.000 to 80.000 mV.

**Calibrate RTD instruments to 0.1 & 0.01 °F & °C**

Pt 10, 50, 100, 200, 500 & 1000 Ohm (3850), Pt 100 Ohm (alpha=3902, 3916, 3926), Cu 10 & 50 Ohm and Ni 120 Ohm.

**Calibrate with Confidence**

Resolution to 0.01 °F & °C, Accurate to 0.2°, Cold Junction Sensor Accurate to 0.05°C m.

**Perform Heat Treating Surveys & Accuracy Tests**

Meets or exceeds the requirement of AMS 2750 as both a Secondary Standard Instrument and as a Field Test Instrument.

**Troubleshoot RTD Sensors & Instruments**

Automatic detection of 2, 3 or 4 wire connections indicates when individual wire connections are open. Verify proper instrument operation by measuring the excitation current.

**Faster Calibrations**

Instantly select three outputs with EZ-CHECK switch. Easily find trip points with two speed EZ-DIAL knob & Automatic Stepping.
PIECAL 434+ powers up the 2-Wire transmitter or loop and indicates the total current and the uncontrolled current. This provides information useful to troubleshoot loop errors.

Calibrate Milliamp Instruments
Source 0.00 to 24.00 mA & -25.0 to 125.0% of 4-20 mA, Read 0.00 to 52.00 mA, Read -99.99 to 99.99 V, Simulate 2-Wire Transmitter, Power & Read Transmitters, Menu Selectable 250 Ohm resistor for HART compatibility.

Calibrate with Accuracy
Accurate to ±(0.02% of Reading + 0.002 mA).

Easy-to-Read Backlit Display
Locate Loop Current Leakages
Automatic indication of Loop Current and Leakage Current. Measure ground current leakage from faulty wiring, flooded conduit and corrosion bridges. Leakage typically appears as a Zero Shift and helps you decide if the transmitter needs calibration or if there is a problem in the loop wiring.

Faster Calibrations
Three output EZ-CHECK switch, 2 speed EZ-DIAL, Stepping & Ramping. Includes Rubber Boot & Test Leads.

PIE 334+.................................................................$949
includes rubber boot, custom carrying case, test leads, batteries, calibration certificate.

AC Adaptor 100-120v,60Hz............................................$60
NiMh Charger & 4 “AA” batteries 120v 60Hz...............$80

PIE 434..........................................................$1,099
includes rubber boot, custom carrying case, batteries, calibration certificate, and test leads.

AC Adaptor 100-120v,60Hz............................................$60
NiMh Charger & 4 “AA” batteries 120v 60Hz...............$80
Diagnostic RTD & mA Calibrator

Calibrate all your RTD instruments AND your milliamp loops with the PIECAL 311Plus. It has all the functions of a 12 type RTD calibrator and can source 0 to 24 milliamps or simulate a two wire transmitter like a milliamp calibrator.

Calibrate directly in temperature (°C & °F)
Stop carrying around a decade box and RTD resistance tables. The PIE 311Plus works with the RTDs you use including Platinum 10, 50, 100, 200, 500 & 1000 Ohm (alpha = 3850), Platinum 100 Ohm (alpha = 3902, 3916, 3926), Copper 10 & 50 Ohm, and Nickel 120 Ohm. Or calibrate from 0.000 to 400.000 and 0.00 to 4000.00 Ohms. For RTDs the fixed or pulsed sensor current is measured by the calibrator.

Measure RTD sensors
Trouble shoot sensor connections and find broken wires with patented technology. Connect your two, three or four wire RTDs and the PIE 311Plus automatically detects the connections and measures the RTD in degrees C or F. Secondary display shows the resistance value corresponding to the RTD temperature.

Compatible with ALL process instruments
No competitor’s calibrator is compatible with as many process instruments! Connect directly to the temperature inputs of transmitters, PLCs, DCS & multichannel recorders to verify their outputs or displays. RTD simulation works with older instruments with fixed excitation currents and newer multichannel instruments that switch the excitation current between input channels.

Checkout all your 4 to 20 mA loops & instruments
With the built-in milliamp calibrator you can check, calibrate and measure all your current signal instruments in a 4-20 milliamp loop.

Thermocouple Calibrator

The PIECAL 322-1 works with the four most common thermocouples you use including types J, K, T and E. Easily set any value quickly to within 0.1° Choose between 2, 3, 5, 11 steps and ramp to automatically increment the output in 100%, 50%, 25%, 10% or 5% of span.

Source and Read Four T/C Types plus mV
J, K, T & E - 13.000 to 80.000 mV.

Calibrate with Confidence
Resolution to 0.1 °F & °C; Accurate to 0.2°.

Faster Calibrations
Instantly select three outputs with EZ-CHECK switch. Easily find trip points with two speed EZ-DIAL knob & Automatic Stepping.

Easily Change T/C Types & Scale
Double click to select T/C type & °F & °C.

Easy-to-Read Display
Turn on the backlight to read in dark areas of the plant.

Use in the Plant, Field or Shop
Includes Rubber Boot and mV Test Leads. Low profile switches resist accidental damage.

Simple “No Tool” Battery Changes
Four inexpensive “AA” batteries.

Optional Accessories

PIE 311+ ................................................................. $1,749
PIE 322-1 ................................................................. $1,049
PIE 422 ................................................................. $1,399

Both include rubber boot, custom carrying case, batteries, calibration certificate, and RTD Wire Kit.

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
**Process Voltage Calibrator**

The PIECAL 235 checks, calibrates and measures voltage instruments. The 20V range has an extended span of up to 24V giving you a portable source for powering your loops. It has a pH simulator used to verify proper operation of pH devices before you place a probe into a calibrated buffer.

**FEATURES**

- Source 3 ranges of mV & V dc plus percent of 1 to 5 volts
- With the 235 you can check, calibrate and measure all your voltage, millivolt and pH signal instruments in your plant. Source -500.00 to 999.00 mV, 1.000 to 5.000 V, -25.0 to +125.00% of 1 to 5 V ; 0.000 to 20.000 V.

- Power your loops with over 1,000 Ohm loads
- The 20.000 V range has an extended span of up to 24.000 Volts giving you a portable source for powering your loops.

- Read DC volts
- The 235 can measure from -500.00 to +999.00 mV, 0.000 to 5.100 V, -25.0 to 125.0 % of 1 to 5 V; 0 to 20.000 V and 0.00 to 60.00 V DC. Use it to check loop power supplies, I/V converters, 1 to 5 Volt signals, and other voltages.

- Calibrating recorders & monitors in 4-20 mA loops
- Other brands of calibrators require that you break the loop to calibrate voltage inputs. With the PIE 235 you simply clip the test leads across the voltage inputs in a live 4 to 20 mA loop without disconnecting any wires.

- Easy-to-Read Display
- Turn on the backlight to read in dark areas of the plant.

**PIE 235**..........................$899
- includes rubber boot, custom carrying case, batteries, calibration certificate.

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**Frequency Calibrator with Totalizer**

The PIECAL 541 is the best tool for calibration, test, and any frequency devices in the shop, plant and/or field. Save hours of time on problems when compared to other calibration methods. This calibrator will automatically stop when the selected number of pulses has been sent to the totalizer, eliminating the need of a stop watch.

**FEATURES**

- Frequency Read & Source Functions
  - True ±0.005% of range accuracy. Source and Read. Six Ranges 1 per hour to 20,000KHz. Calibrate Totalizer input and outputs from 1 to 99999. Count Pulses 1 to 99999. LED indicator for gate time.

- Read / Source Function
  - Read a wide range of Frequencies and Waveforms. Read 50mV to 120V peak. Read signals from Flowmeter pickups, Velocity and Motion Detectors and Totalizers. Sine and Square waves, Zero Based and Zero Crossing. Frequency from 1CPH to 20KHz. Adjustable amplitude from 100mV to 12Volts peak-to-peak. Simulates Vibration Pickups, Variable Speed Drives and more.

- Calibrate Totalizers & Gate Trigger Indicator
  - Output a number of pulses from 1 to 100 minutes. The LED flashes in sync with the output frequency allowing easy adjustment of the attenuation for proper gate triggering.

- EZ-Dial Knob & EZ-Check Switch
  - Change the speed of dialing your test point by just pushing down on the knob. Stop watch style push button for accurate totalizer measurements and for high and low readings.

- Uses a standard 9V Alkaline Battery
  - Superior battery life of 24 hours under typical continuous usage. Easy access to battery compartment.

**PIE 541**..........................$1,679
- includes carrying case, batteries, calibration certificate, and attached test leads.

- NiMh Charger & 4 “AA” batteries 120v 60hz.............$80

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All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
Diagnostic Thermocouple & mA Calibrator

The PIECAL 422Plus has all the functionality of the PIE 422 Thermocouple Calibrator with a built-in Milliamp Calibrator. Dual Channel High Accuracy T/C Calibrator with 14 T/C types mV; milliamp channel includes Patented Current Leakage test.

Two Calibrators in One!
Calibrate all your thermocouple instruments AND your milliamp loops with the PIE 422Plus. It has all the functions of a 14 type thermocouple calibrator and can source 0 to 24 milliamps or simulate a two wire transmitter like a milliamp calibrator. You may also perform stand alone calibrations of two wire transmitters by simultaneously supplying the thermocouple input signal while supplying the 24 volts to power up the transmitter and monitoring the milliamp output signal. Powers HART™ transmitters with built-in 250 ohm resistor simplifying hookups with HART communicators.

Troubleshoot loop problems
Quickly diagnose ground fault and current leakage with the patented loop diagnostic technology (US Patent# 7,248,058)

Calibrate directly in temperature (°C & °F)
The PIECAL 422Plus works with the thermocouples you use including types J, K, T, E, R, S, B, N, G, C, D, L (J-DIN), U (T-DIN) and P (Platinel II). Easily set any value quickly to within 0.1° with the adjustable “EZ-DIAL” plus store any three temperatures for instant recall with the EZ-CHECK™ switch. You may also calibrate from -13.000 to +80.000 mV. Connect your thermocouple and the PIE 422Plus measures the probe in degrees C or F. Secondary display shows the millivolt value corresponding to the thermocouple temperature.

PIE 422+.................................................................$1,649
includes Rubber Boot, batteries, calibration certificate, Deluxe Hands Free Carrying Case (Part No. 020-0211), Standard Test Leads (Included with calibrator) (Part No. 020-0207), Three feet (1 meter) of wire with an alligator clip on one end and a banana plug on the other end.

Diagnostic Temperature & mA Calibrator

The PIECAL 525PLUS calibrator is an automated, high accuracy instrument designed to calibrate all your thermocouple and RTD instruments and measure temperature sensors.

Three Calibrators in One!
Calibrate all your Thermocouple, RTD instruments AND your milliamp loops with the PIE 525Plus. It has all the functions of a 12 type RTD calibrator, 14 type thermocouple calibrator and can source 0 to 24 milliamps or simulate a two wire transmitter like a milliamp calibrator. You may also perform stand alone calibrations of two wire transmitters by simultaneously supplying the RTD or thermocouple input signal while supplying the 24 volts to power up the transmitter and monitoring the milliamp output signal. Powers HART™ transmitters with built-in 250 ohm resistor simplifying hookups with HART communicators.

Troubleshoot loop problems
Quickly diagnose ground fault and current leakage with the patented loop diagnostic technology (US Patent# 7,248,058)

Calibrate directly in temperature (°C & °F)
Stop carrying around a decade box and RTD resistance tables. The PIE 525Plus works with the RTDs you use including Platinum 10, 50, 100, 200, 500 & 1000 Ohm (alpha = 3850), Platinum 100 Ohm (alpha = 3902, 3916, 3926), Copper 10 & 50 Ohm, and Nickel 120 Ohm. Or calibrate from 0.000 to 400.000 and 0.00 to 4000.00 Ohms. For RTDs the fixed or pulsed sensor current is measured by the calibrator. Have thermocouples also? Choose from J, K, T, E, R, S, B, N, G, C, D, L (J DIN), U (T DIN) or P (Platinel). Or calibrate from 13.000 to 80.000 mV.

PIE 525+.................................................................$2,199
NiMh Charger & 4 “AA” batteries 120v 60hz...............$80
Small carrying case.............................................$65
T/C - J,T,E,K Mini plug lead kit..........................$145
T/C - B,R/S,N Mini plug lead kit........................$145

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
The Loopy 5000 provides field technicians with a portable, economic, and durable 24VDC power source for powering field transmitters. This is especially useful during plant startup, shutdown, and overhaul, when the loops are not usually energized, but field instruments must still be installed, tested, and calibrated. Efficient switching regulator allows LPS to extract virtually 100% of available battery power. Accidental short circuits are protected by a Positive Temperature Coefficient thermistor. A must have for any field technician’s tool bag.

The Loopy 6000 provides field technicians with a portable, economic, and durable 24VDC power source for powering field transmitters. This is especially useful during plant startup, shutdown, and overhaul, when the loops are not usually energized, but field instruments must still be installed, tested, and calibrated. Efficient switching regulator allows LPS to extract virtually 100% of available battery power. Accidental short circuits are protected by a Positive Temperature Coefficient thermistor. A must have for any field technician’s tool bag.

**Why the Loopy?**

- Doesn’t tie up a second loop calibrator.
- Great for isolated loops.
- Light/Easy to carry.
- Compare to Transcat Model #21050E.
Emerson AMS Trex

Field Communicator

5.7in (14.5 cm) color VGA resistive touchscreen display & adjustable backlit screen
2 GB NAND and 32 GB extended flash memory
8+ hour rechargeable lithium-ion power module
800 MHz ARM Cortex A8 / NXP microprocessor
-4 to 131°F (-20 to 55°C) operating temp
Built-in Bluetooth, USB, and WiFi connectivity

Automatically synchronize field changes: The Auto Sync technology in AMS Trex helps maintain data integrity in your AMS Device Manager database without any technician intervention.

Diagnose Communication Problems: Quickly fix issues in the field with advanced device diagnostics. Detect power supply problems using the communicator’s power the loop functionality or by monitoring low frequency noise on a segment.

Configure and test valves inline: Perform valve diagnostics in the field, including valve signature, dynamic error band, PD one button sweep, and step response, without having to pull the valve or perform invasive troubleshooting steps.

The Trex communicator includes built-in functionality to power a device; Simply connect the communicator to an instrument to power it.

The AMS Trex is Intrinsically safe; usable anywhere you need to go and has an IP54 environmental rating.

ORDERING INFORMATION:

Includes AC Adapter, USB Cable, Lead Set with connectors, Hand Strap, Quick Start Guide and Resource DVD.

Emerson AMS Trex .................................................................................................................................. Call For Pricing

Emerson AES-0005-0011 Carrying case .................................................................................................. $165.00

ORDERING INFORMATION:

RADIO OPTIONS
W: Wireless
9: None

PRODUCT CERTIFICATIONS
NA: No approval
KL: ATEX, CSA (US/Canada) and IECEx intrinsically safe

CARRYING CASE
NA: Not included
S: Included

COMMUNICATION MODULE
C: Device communicator communication module
L: Device communicator + communication module

APPLICATIONS
H: HART Application
F: HART + FOUNDATION fieldbus applications

SUPPORT
S1: Standard support (1 year)
S3: Standard support (3 year)
P1: Premium support (1 year)
P3: Premium support (3 year)

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
### HART Communicator

- Reads manufacturers DDs in their native format
- Enhanced 4.3” diagonal anti-glare touchscreen
- Ergonomic, handheld design
- Operating temp: 14 to 122°F (-10 to 50°C)
- 480 X 272 pixels display
- Full QWERTY keyboard

### Smart Manometer

- Handheld, high-precision, digital manometer with an accuracy of up to ±0.025% of full scale
- Document up to 240 readings (auto or manual)
- Engineering Units: inH2O, PSI, mmHg, inHg, mBars, Bars, kPa, kg/cm², cmH2O

### Meriam MFC 5150

- $5,300
- Includes HART Communicator, Docking Station & Power Adapter, universal plug kit, USB Cable communication from docking station to PC, Battery pack, rechargeable 9600 mAH Li-Ion, Soft Carrying Case, Hand Strap, and SD Card.

### Meriam M200

- $1,199
- The M200 is available in the following RANGES:
  - **Differential**: From 0 up to and including 2,000” H2O
  - **Gauge**: From 0 up to and including 3,000 PSI
  - **Compound**: From -15 up to and including +3,000 PSI
  - **Absolute**: From 0 up to and including 1,000 PSIA

### Intrinsically Safe Certification

- **$232**

*Note: Please add $199 for this accuracy.*
### Wet/Wet Smart Manometer

- **Accuracy:** up to ±0.025% of Full Scale
- 7 Differential Pressure Ranges Available
- Eleven user-selectable engineering units
- Documents up to 240 readings for future recall
- Field recalibration to zero, span and linearity
- User-selectable 1-Point or 5-Point calibration procedure

The M200-DI is a handheld, intrinsically smart manometer for liquids with high accuracy for wet/wet differential pressure applications. Potentially corrosive or wet gasses can also be handled. All ranges are rated for 1000 PSI common mode pressure. The damping feature minimizes pulsation effects. The ‘Hold’ function freezes the display for convenient reading. Leak test allows users to view Min/Max pressure values and calculates leak rate per minute in pressure units. This is a valuable tool for troubleshooting or pressure testing pneumatic systems.

#### Meriam M200-DI

<table>
<thead>
<tr>
<th>Ranges</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>0-1 PSID (0-28” H2O)*</td>
<td>$1,600</td>
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<tr>
<td>0-5 PSID (0-138” H2O)</td>
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<td>0-15 PSID (0-415” H2O)</td>
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<td>0-30 PSID (0-830” H2O)</td>
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<td>0-100 PSID (0-2768” H2O)</td>
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<td>0-300 PSID</td>
<td></td>
</tr>
<tr>
<td>0-500 PSID</td>
<td></td>
</tr>
</tbody>
</table>

The M200-DI includes protective red boot, batteries.

The M200-DI is available in the following RANGES:

<table>
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<td>$1,600</td>
</tr>
<tr>
<td>0-5 PSID (0-138” H2O)</td>
<td></td>
</tr>
<tr>
<td>0-15 PSID (0-415” H2O)</td>
<td></td>
</tr>
<tr>
<td>0-30 PSID (0-830” H2O)</td>
<td></td>
</tr>
<tr>
<td>0-100 PSID (0-2768” H2O)</td>
<td></td>
</tr>
<tr>
<td>0-300 PSID</td>
<td></td>
</tr>
<tr>
<td>0-500 PSID</td>
<td></td>
</tr>
</tbody>
</table>

The M200 Series is available in the following ACCURACY:

<table>
<thead>
<tr>
<th>Accuracy</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard ± .05%</td>
<td>$2,400</td>
</tr>
<tr>
<td>Enhanced ± .025%**</td>
<td>$2,600</td>
</tr>
</tbody>
</table>

**Note:** Please add $235 for this range.

**Note:** Please add $199 for this accuracy.

### Enhanced Rotary Gas Meter Tester

- **Recalibration for zero, span and linearity**
- 1-point or 5-point calibration procedure
- Enhanced or Legacy software mode
- Pressure limits are twice range on differential units when pressurized on high side only and 150 PSI static when applied to both sides of sensor simultaneously

The M201 makes drop testing rotary gas meters even easier. Improved hardware options protect the M201 from one sided overpressure. ‘Measure Mode’ lets it be used as a conventional differential pressure measurement device. Users will appreciate the live pressure display as they check the handheld’s zero or observe DP across rotary gas meters. The M201 uses an internal stop watch to measure the test length during a drop test. It reports both the test time and the average differential pressure measured during the test.

#### Meriam M201

<table>
<thead>
<tr>
<th>Model Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push-to-read Valve, brass (2-port pressure manifold)</td>
<td>$1,750</td>
</tr>
<tr>
<td>1/4 turn Valve, brass, copper (2-port pressure manifold)</td>
<td>$1,805</td>
</tr>
<tr>
<td>Integral push-to-read-valve, 316SS, viton (3-port pressure manifold)</td>
<td>$2,115</td>
</tr>
</tbody>
</table>

All models include protective red boot, batteries.

The M201 is available in the following RANGES:

<table>
<thead>
<tr>
<th>Ranges</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Differential - 0-200” H2O</td>
<td>$2,400</td>
</tr>
<tr>
<td>Differential - 0-28” H2O*</td>
<td></td>
</tr>
</tbody>
</table>

Intrinsically Safe Certification: $232

**Note:** Please add $75 for this range.

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com

---

*Note:** Please add $235 for this range.

**Note:** Please add $199 for this accuracy.
**Digital Handheld Pressure Calibrator**

- A convincing feature of this handheld pressure gauge is its versatility. Functions are available for leak rate, min./max. values and for storing the measured values in the display. The measured values can be stored in the integrated data memory with the datalogging function and from there, logged directly on a connected printer (without PC) via the RS232 interface. Of course a PC-software level Windows is also available. The HM28 permits measurements in over-and underpressure, differential or absolute pressure.

- Units: mbar, bar, kPa, MPa, mmH2O, mH2O, mmHg, psi, inH2O, inHg
- Accuracy: 0.1% FS (0.05% available on some ranges)
- Battery or power supply unit
- Integrated data memory & RS232 Output

<table>
<thead>
<tr>
<th>Ranges</th>
<th>$1,995</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-100 PSI</td>
<td></td>
</tr>
<tr>
<td>0-145 PSI</td>
<td></td>
</tr>
<tr>
<td>0-245 PSI</td>
<td></td>
</tr>
<tr>
<td>0-500 PSI</td>
<td></td>
</tr>
<tr>
<td>0-1000 PSI</td>
<td></td>
</tr>
<tr>
<td>0-1300 PSI</td>
<td></td>
</tr>
</tbody>
</table>

The HM28 is available in the following RANGES:

<table>
<thead>
<tr>
<th>Ranges</th>
<th>$1,995</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10&quot; H2O</td>
<td></td>
</tr>
<tr>
<td>0-145 PSI</td>
<td></td>
</tr>
<tr>
<td>0-245 PSI</td>
<td></td>
</tr>
<tr>
<td>0-80&quot; H2O</td>
<td></td>
</tr>
<tr>
<td>0-120&quot; H2O</td>
<td></td>
</tr>
<tr>
<td>0-200&quot; H2O</td>
<td></td>
</tr>
<tr>
<td>0-1100 ABS</td>
<td></td>
</tr>
<tr>
<td>0-2000 ABS</td>
<td></td>
</tr>
</tbody>
</table>
The HM30 has numerous applications including metrology, heating, ventilation, air conditioning, geology, geodesy, measurement, technique, aviation, and mountaineering. Several meteo parameters can also be observed, measured and evaluated along with simultaneous display of barometric pressure, humidity, temperature 1 and temperature 2. It also comes equipped with data-logging including real time clock, data transfer to PC, PC remote control facility, data printout possible without PC and windows supported software.

Why the Meteo Station?

- So sensitive you can measure the height of a table.
- Extremely reliable.
- Complete instruments measures barometric pressure, humidity pressure, and temperature.

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measures Barometric pressure, Dew point, and Altitude</td>
<td>This bench top manometer measures gauge, differential and absolute pressures, rate of pressure change, MIN/MAX and average value are available. A large readable display also shows real time, date and is illuminated. Data Memory holds 10,000 measurements, and there are 22 selectable measurement units with 14 different measurement ranges available up to 90 bar (high overload resist). Graphic display with high resolution and backlight. Manually fine-tuning adjustment (0.5 l internal volume (up to 1 bar). Remote commands allow the direct reading of data via USB and software is available. Powered over USB (max 80mA) / Battery operated. Field of application: Medical Technology, Pharmaceutical Industry, Chemical &amp; Petrochemical Industry, Laboratories and Universities, Diagnostics.</td>
</tr>
<tr>
<td>Second temperature with insertion sensor</td>
<td>Available ranges from: 0.4&quot;h2o to 100psi Offered in gauge, differential and absolute pressure Accuracy 0.1% to 0.05% Temperature compensated 0 to 50 °C Relative, differential- or absolute pressure 22 selectable units of measure</td>
</tr>
<tr>
<td>Works with Leica precision measurement equipment Peak Value Storage, min/max</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODELS / EXTRAS</th>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HM30</strong></td>
<td>Measures Barometric pressure, Dew point, and Altitude Second temperature with insertion sensor Works with Leica precision measurement equipment Peak Value Storage, min/max</td>
</tr>
<tr>
<td><strong>TM35</strong></td>
<td>Measures Barometric pressure, Dew point, and Altitude Second temperature with insertion sensor Works with Leica precision measurement equipment Peak Value Storage, min/max</td>
</tr>
</tbody>
</table>

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
DC Insulation Resistance Testers

- Measures up to 20 TΩ
- PI, DAR, DD, SV and ramp test
- Operate from line power/mains if battery dead
- Li ion battery - extended capacity, rapid charge
- Advanced memory with time/date stamp
- CATIV 600 V safety rating

MIT1025

- 10 kV insulation resistance tester for diagnostic testing and maintenance of high voltage electrical equipment.
- Enclosed in a tough case it is both smaller and lighter than its predecessor making it easier to carry and store.
- As well as measuring insulation resistance to 20 TΩ, the MIT1025 also offers various diagnostic tests such as Polarisation index, Dielectric Absorption Ratio, Step Voltage, Dielectric discharge and ramp testing.

MIT400 Series

- CATIV 600V applications
- Insulation testing to 1000V and to 200GΩ
- TRMS & DC Voltage measurement
- Continuity testing at 200mA down to 0.01Ω
- Analogue and dual digital display
- Bluetooth wireless data transfer

MIT400

- Offers those working in electrical engineering, the electrical supply industry and in maintenance, repair and servicing of industrial equipment and manufacturing processes a convenient test instrument.
- The MIT400 series insulation and continuity testers are designed not just for Electrical and Industrial, but with an exceptionally wide range of applications from electrical installations, cable testing, motor testing, automotive, ESD, panel building, avionics, maintenance etc.

MIT400

- 250V, 500V, 1000V
- 50V, 100V, Polarisation Index, Dielectric Absorption Ratio
- Result Storage
- Bluetooth download

The MIT is available in the following RANGES:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIT515</td>
<td>5 kV IRT with PI and DAR but no memory</td>
<td>$2,890</td>
</tr>
<tr>
<td>MIT525</td>
<td>5 kV IRT, ramp test, advanced memory functions, USB</td>
<td>$3,788</td>
</tr>
<tr>
<td>MIT1025</td>
<td>10 kV IRT, ramp test, advanced memory functions, USB</td>
<td>$4,587</td>
</tr>
<tr>
<td>MIT1525</td>
<td>15 kV IRT, ramp test, advanced memory functions, USB</td>
<td>$5,154</td>
</tr>
</tbody>
</table>

- Includes power lead, 10 ft (3 m) leadset x 3, medium insulated clips, 10 ft (3 m) 3 m leadset x 3, large insulated clips, USB cable, PowerDB lite software.

The MIT is available in the following RANGES:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIT400</td>
<td>250V, 500V, 1000V</td>
<td>$5,154</td>
</tr>
<tr>
<td>MIT410</td>
<td>50V, 100V, Polarisation Index, Dielectric Absorption Ratio</td>
<td>$6,100</td>
</tr>
<tr>
<td>MIT420</td>
<td>Result Storage</td>
<td>$6,34</td>
</tr>
<tr>
<td>MIT430</td>
<td>Bluetooth download</td>
<td>$7,34</td>
</tr>
</tbody>
</table>

- Includes silicone test leads, rubber boot with built-in stand, carrying case, info CD, calibration certificate, 3 year warranty.

The MIT is available in the following RANGES:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIT1002-001 Test Lead Set</td>
<td></td>
<td>$135</td>
</tr>
<tr>
<td>MIT1007-157 SPS Remote Probe</td>
<td></td>
<td>$129</td>
</tr>
</tbody>
</table>

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
The Flow 707 is an ultrasonic flow meter with advanced features at an economical cost. Using 12 hour rechargeable batteries this meter also:

- Uses Fuji protocol
- Totalizes
- Performs batch control
- Uses 4-20 mA
- OCT output
- Built in Data Logging and Calendars
- Has RS232/RS485
- Stores thousands of measurements
- Pipe Sizes: 5" to 20'

**Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linearity</td>
<td>0.5%</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.2%</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±1% of reading at rates &gt; 0.2 mps</td>
</tr>
<tr>
<td>Response Time</td>
<td>0-999 seconds, user-configurable</td>
</tr>
<tr>
<td>Velocity</td>
<td>±32 m/s</td>
</tr>
<tr>
<td>Pipe Size</td>
<td>15mm-6000mm</td>
</tr>
<tr>
<td>Totalizer</td>
<td>7-digit totals for net, positive and negative flow respectively</td>
</tr>
<tr>
<td>Liquid Types</td>
<td>Virtually all liquids</td>
</tr>
<tr>
<td>Security</td>
<td>Setup values Modification Lockout. Access code needs unlocking</td>
</tr>
<tr>
<td>Display</td>
<td>4x16 English Letters</td>
</tr>
<tr>
<td>Communication Interface</td>
<td>RS-232, baud rate: from 75 to 57600</td>
</tr>
<tr>
<td>Transducer Cord Length</td>
<td>Standard 5m x 2, optional 10m x 2</td>
</tr>
<tr>
<td>Power Supply</td>
<td>3 AAA built-in Ni-H batteries. Lasts over 12 hours on full charge.</td>
</tr>
<tr>
<td>Data Logger</td>
<td>Built-in data logger can store over 2,000 lines of data</td>
</tr>
<tr>
<td>Manual Totalizer</td>
<td>7-digit press-key-to-go totalizer for calibration</td>
</tr>
<tr>
<td>Housing Materials</td>
<td>ABS</td>
</tr>
<tr>
<td>Case Size</td>
<td>210x90x30mm</td>
</tr>
<tr>
<td>Main Unit Weight</td>
<td>500g with batteries</td>
</tr>
</tbody>
</table>

**Flow 707**

Handheld Ultrasonic Flowmeter

**Price:** $2,795

**East Hills Instruments**

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
### Battery Analyzer

**SBS-6500**

- Download specific gravity readings wirelessly
- Voltage range: 0–300V for batteries from 1.2–48 Vdc
- Data storage: +7.5 Million records (75,000 Batteries)
- Storage battery resistance testing; automatically switches within the test range 1 mΩ to 400 mΩ and resistance measurement resolution reaches 1 mΩ

**SBS-2003**

- Digital Hydrometer Density Meter
- Data-Logging with Wireless Downloading
- Accuracy: ± 0.002
- Auto temperature compensated to 77° F (25°C)
- 1,000 reading memory Excel-compatible data format

### Features

**SBS-6500**

- The SBS-6500 analyzer is a multipurpose resistance and voltage testing kit. It has a storage capacity of 7.5 million data records for capturing and analyzing the entire history and details of up to 300 battery systems. Through your PC, or while on-site, the SBS-6500 can be programmed with site names, battery details and pass/warning/fail alarm set points for resistance measurements (pass/fail for voltage).

**SBS-2003**

- Specific gravity testing has never been this easy! Simply insert the nozzle into the battery and depress the finger pump which draws a few drops of sulfuric acid (H₂SO₄) through the tube. Within three seconds the measured refractive index is converted into a temperature compensated specific gravity reading and then both the specific gravity and temperature are displayed. The SBS-2003 has the added benefit of storing the results for future download via Bluetooth or USB.

### Models / Extras

- **SBS-6500**
  - Includes Pin probes, NiMH battery & charger, USB cable, Software, Carrying case.
  - Price: $5,520

- **SBS-2003**
  - Includes Three (3) silicone tubes, 9V battery, Adjustable hand strap, Case, Bluetooth to USB adapter.
  - Price: $2,395

- **SBS 6500-CLAMP-PROBE**
  - Clamp Probe Leads for Testing with SBS-6500.
  - Price: $295

- **6500-PIN-PROBES**
  - Replacement Pin Probe Leads for SBS-6500.
  - Price: $295

- **SBS 6500-PROBE-TIP**
  - Replacement Pin Set for 6500-PIN-PROBES.
  - Price: $75

- **SBS 6500-BATT**
  - Spare NiMH Battery for SBS-6500.
  - Price: $125

- **2003/-SPR-PRT-KT**
  - o-ring, sample chamber w/rubber pump, (3) 9” sample tubes
  - Price: $250

- **2002/3-HOL**
  - Holster w/ belt for SBS-2003
  - Price: $75

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All Prices are Subject to Change. Call 1-800-921-9494 or visit [www.easthillsinstruments.com](http://www.easthillsinstruments.com)
XL422 is a Data Logger capable of measuring and recording the true root mean square (TRMS) value of AC current up to 2500A in three-phase 3-wire electric systems for different applications (evaluation of load currents, rated powers of transformers, etc.). The device has a comfortable structure with integrated flex clamp jaws which allow surrounding also big-sized cables or bars. Thanks to an advanced memory management algorithm it is possible to monitor a system even for a long time. The device starts recording with a sampling period which can be selected through software among 1, 6, 30 and 60 seconds and, when memory is almost full, the previously recorded values are “re-sampled” according to the subsequent value of the sampling period, thus freeing part of the memory; the device then goes on recording new values, using the new measuring interval. In this way, it is possible to keep the device recording up to approximately 90 days. Each recording is kept stored in the internal memory and can be downloaded and displayed on the PC always through a dedicated software. Data Logger XL422 is also provided with a special adhesive strap which makes it possible to place it in any place in the installation where measuring is needed. The high protection rating (IP65) makes this device fully reliable also under extreme operating conditions.

**Range:** 2 - 2500A  
**Resolution:** 1A  
**Accuracy:** ±(2.0%rdg + 2dgt)  
**Sampling rate:** 64 point in 20ms for each sampling period  
**Sampling period:** 1s, 6s, 30s, 1min, 5min  
**Memory capacity:** 1Mbyte  
**Autonomy in days (depending on batteries autonomy):** 1.5(1s); 8(6s); 42(30s); 91(1min); 455(5min)  
**PC interface:** RS-232  
**Operating Temperature / Humidity:** -20°C to 60°C; 0 - 100%RH (RS-232 connector closed)  
**Power supply:** 2x1.5V alkaline battery type LR6-AA-AM3-MN1500  
**Weight:** 1.1 lbs  
**Made in Italy**

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**XL422**

$1,800


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All Prices are Subject to Change. Call **1-800-921-9494** or visit [www.easthillsinstruments.com](http://www.easthillsinstruments.com)
## DESCRIPTION

I-V500w allows field detection of I-V Curve and of the main characteristic parameters both of a single module and of strings of modules for PV installations up to a maximum of 1500V and 10A or 1000V and 15A. For measuring I-V Curve, I-V500w manages an internal database of the modules, which can be updated at any time by the user and comparison between the measured data with the rated values allows immediately evaluating whether the string or the module fulfills the efficiency parameters declared by the manufacturer.

## FEATURES

- Detection of I-V curve on PV modules and strings: 1500V/10A - 1000V/15A
- Quick IVCK test for measuring Voc and Isc on PV modules and strings: VOC 1500V / ISC 15A
- Internal memory capacity: 249 I-V Curves
- Use of remote unit SOLAR-02 with USB / RF connection
- Custom management of internal PV module database: 30 internal / 30.000 on software/app
- Temperature measurement of cell and environment
- Measurement of irradiation with reference cell
- Summary table of main electric parameters
- Provided PC interface with software for Windows
- Integrated WiFi connection and compatibility with HTANALYSIS App
- Weight in grams (batteries included): 1200

## MODELS / EXTRAS

**I-V500w**

- Includes I-V500w, Set of 4 cales banana 4mm, 2m + 4 alligator clips, Set of 2 adapters with connector compliance MC3, Set of 2 adapters with connector compliance MC4, Mechanical inclinometer for detection of sun incidence angle, Hard carrying case, Hands-free kit, PC Windows software + optical/USB connection cable, User’s Manual on CD-ROM, Quick start guide, ISO9000 Calibration Certificate.

**$4,495**

All Prices are Subject to Change. Call **1-800-921-9494** or visit [www.easthillsinstruments.com](http://www.easthillsinstruments.com)
HT70 is a practical innovative pen device capable of carrying out, further to the phase detection function, a phase sequence and phase concordance test with LED indications and buzzer, also on the insulating sheath of the conductors.

The result of the test is indicated by the **red LED** (incorrect phase sequence) or the **green LED** (correct phase sequence) turning on, by simply moving the sensor first on the L1 and then on the L2 phase.

Detection of AC voltage without contact, also on insulating sheaths
Phase sequence without contact also on insulating sheaths with red and green LED indications
Phase concordance with red and green LED indications
AC voltage range detection: 100 - 1000V AC to ground
Frequency range: 50/60Hz
Phase sequence indication with 1-wire
Conformity test with 1-wire
Safety: IEC/EN61010-1
Category of measurement: CAT IV 1000V
Power supply: 2x1.5V batteries alkaline type AAA NEDA24A LR03
Working temperature: 14°F - 122°F
Weight: 1.7 oz
### 8 Decade Wide Range Resistance Box

A precision low ohm resistance box designed for general laboratory work including platinum resistance thermometry. The 1051 is compact and durable, with range from 0.01Ω to 1MΩ and 0.1% best accuracy.

#### Range / Resolution:

<table>
<thead>
<tr>
<th>Decade</th>
<th>0.01Ω</th>
<th>0.1Ω</th>
<th>1Ω</th>
<th>10Ω</th>
<th>100Ω</th>
<th>1kΩ</th>
<th>10kΩ</th>
<th>100kΩ</th>
<th>1MΩ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>±10%</td>
<td>±5%</td>
<td>±2%</td>
<td>±0.5%</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td>±0.1%</td>
</tr>
<tr>
<td>Max Current</td>
<td>1A</td>
<td>1A</td>
<td>1A</td>
<td>0.3A</td>
<td>0.1A</td>
<td>33mA</td>
<td>10mA</td>
<td>3mA</td>
<td></td>
</tr>
</tbody>
</table>

Residual Resistance: Less than 250mΩ

Power Rating: 1 watt per resistor

Voltage Rating: Maximum 250V DC/AC RMS

Temperature Coefficient: 50ppm/°C

Color coded digits, safety terminals

W8.4 x H3.9 x D4.7” • Weight: 2.2 lbs

### 1051 Resistance Decade Box

- $895

### 1041 Resistance Decade Box

- $695

A low ohm decade box covering 0 to 1kΩ in 0.01Ω steps, with 0.5% mid scale accuracy (see first 5 decades of 1051 table).

#### Extras

- Protective Rubber Boot: $44
- Carrying Case: $125
- NIST/UKAS Calibration Cert: $215

### 1040 Resistance Decade Box

A popular wide range decade box covering 0 to 100MΩ in 1Ω steps, with 0.1% best accuracy. The 1040 is used in both industry and education, providing precision and reliability in all required applications.

#### Range / Resolution:

<table>
<thead>
<tr>
<th>Decade</th>
<th>1Ω</th>
<th>10Ω</th>
<th>100Ω</th>
<th>1kΩ</th>
<th>10kΩ</th>
<th>100kΩ</th>
<th>1MΩ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>±1%</td>
<td>±0.5%</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td>±1%</td>
</tr>
<tr>
<td>Max Current</td>
<td>0.5A</td>
<td>0.3A</td>
<td>100mA</td>
<td>30mA</td>
<td>3mA</td>
<td>0.3mA</td>
<td>30µA</td>
</tr>
</tbody>
</table>

Residual Resistance: Less than 250mΩ

Power Rating: 1 watt per resistor

Voltage Rating: Maximum 250V DC/AC RMS

Temperature Coefficient: 50ppm/°C

Color coded digits, safety terminals

W8.4 x H3.9 x D4.7” • Weight: 2.2 lbs

### 1040 Resistance Decade Box

- $895

### 1061 Resistance Decade Box

- $475

Slim line design with in-line read-out that has a range of 0 to 1.2MΩ in 1Ω steps, accuracy ±1%

#### Extras

- Protective Rubber Boot: $44
- Carrying Case (1040): $125
- NIST/UKAS Calibration Cert: $215

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>FEATURES</th>
<th>MODELS / EXTRAS</th>
</tr>
</thead>
</table>
| **1067 : 6 Decade Precision Resistance Box** | **1067 Range / Resolution:** 0 to 12kΩ / 10mΩ steps  **Accuracy:** ± 0.01\%  **Resistance:** Less than 10mΩ · Less than 1mΩ variation  **Power Rating:** 0.35 watt per resistor  **Stability:** 20ppm/year (>1Ω), 100ppm/year (<1Ω)  **Voltage Rating:** Maximum 200V DC/AC RMS  **Insulation:** Case to resistance terminals 2kV / 50Hz max  **Temperature Coefficient:** 10ppm/°C (20ppm/°C below 1Ω)  **Dimensions:** W13.8 x H2.5 x D3.5” · **Weight:** 2.4 lbs | **1067 : 6 Decade Precision Resistance Box**.............$1,675  
**1065 : 6 Decade Power Resistance Box**....................$1,750  
0 to 120kΩ in 0.1Ω steps, best accuracy is 1%, and each resistor has a 10 watt power rating  
**NIST/UKAS Calibration Certificate**..........................$215 |
| **1070 : 5 Decade Capacitance Box** | **1070 Range / Resolution:** 0 to 10 F / 100pF steps  **1070 Residual Capacitance:** Less than 38pF  **1071 Range / Resolution:** 0 to 100 F / 10pF steps  **1071 Residual Capacitance:** Less than 50pF  **Accuracy:** 1% (5% above 10µF on 1071)  **Voltage Rating:** Maximum 300V DC, 200V AC  **Bi-polar working, color coded digits, safety terminals**  **Dimensions:** W8.4 x H3.9 x D4.7” · **Weight:** 2.2 lbs | **1070 : 5 Decade Capacitance Box**.................................$895  
**1071 : 7 Decade Capacitance Box**.................................$995  
**1053 : 4 Decade Inductance Box**.................................$1,295  
Range is 0 to 10H in 1mH steps  
**Protective Rubber Boot (1070, 1071)**............................$44  
**Carry Case (1070, 1071)**...........................................$125  
**NIST/UKAS Calibration Certificate**...............................$215 |

All Prices are Subject to Change. Call 1-800-921-9494 or visit [www.easthillsinstruments.com](http://www.easthillsinstruments.com)
## DC Millivolt Sources

High accuracy handheld millivolt sources primarily used for voltage injection or potentiometric voltage measurement (1007). Applications include thermocouple simulation and calibration of A/D converters and chart recorders.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 ranges up to 1V</td>
</tr>
<tr>
<td>Accuracy 0.02% of setting + 0.02% of range</td>
</tr>
<tr>
<td>Best resolution 1µV</td>
</tr>
<tr>
<td>20mA output current</td>
</tr>
<tr>
<td>Powered by 6 AA batteries</td>
</tr>
<tr>
<td>100 hours typical battery life</td>
</tr>
<tr>
<td>Short circuit and overload protected</td>
</tr>
<tr>
<td>Safety terminals</td>
</tr>
<tr>
<td>LED null measuring facility (1007)</td>
</tr>
<tr>
<td>H8.4 x W3.9 x D4.7” • Weight: 2.5 lbs</td>
</tr>
</tbody>
</table>

## DC Current Calibrator

A portable benchtop DC current source for calibration and test applications from nanoamp levels to 100mA. Applications include current transducer testing and calibration and linearity tests on digital and electronic current meters.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 100mA output in 5 ranges</td>
</tr>
<tr>
<td>Accuracy 0.02% of setting</td>
</tr>
<tr>
<td>10ppm/hr stability</td>
</tr>
<tr>
<td>Up to 15V output drive</td>
</tr>
<tr>
<td>30ppm/°C temperature coefficient</td>
</tr>
<tr>
<td>Safety terminals</td>
</tr>
<tr>
<td>Null meter measures to 1µA resolution</td>
</tr>
<tr>
<td>Battery or mains operation</td>
</tr>
<tr>
<td>12 hours typical use between charges</td>
</tr>
<tr>
<td>W8.5 x H6.2 x D7.5” • Weight: 7.3 lbs</td>
</tr>
</tbody>
</table>

## Models / Extras

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1006 DC Millivolt Source</td>
<td>0.01µV to 10V in 5 ranges / Accuracy 0.02% of setting.</td>
<td>$1,350</td>
</tr>
<tr>
<td>1007 DC Millivolt Potentiometer and Calibrator</td>
<td></td>
<td>$1,750</td>
</tr>
<tr>
<td>1010 DC Voltage Calibrator</td>
<td></td>
<td>$2,250</td>
</tr>
<tr>
<td>Protective Rubber Boot (1006, 1007)</td>
<td></td>
<td>$44</td>
</tr>
<tr>
<td>Carrying Case (1006, 1007)</td>
<td></td>
<td>$125</td>
</tr>
<tr>
<td>Rechargeable Battery Pack (1006, 1007)</td>
<td></td>
<td>$160</td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1006, 1007)</td>
<td></td>
<td>$195</td>
</tr>
<tr>
<td>1024 DC Current Calibrator</td>
<td></td>
<td>$2,585</td>
</tr>
<tr>
<td>1021 Milliamp Source with Null Indicator</td>
<td>0 to 100mA output in 3 ranges / Accuracy 0.02% of setting +0.02% of rating.</td>
<td>$1,725</td>
</tr>
<tr>
<td>1077 Milliamp Transducer Simulator</td>
<td>3 operating modes / 100mA source and load / 24V line mode / 0.02% accuracy.</td>
<td>$1,995</td>
</tr>
<tr>
<td>Protective Rubber Boot (1021, 1077)</td>
<td></td>
<td>$44</td>
</tr>
<tr>
<td>Carrying Case (1024)</td>
<td></td>
<td>$215</td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1024)</td>
<td></td>
<td>$230</td>
</tr>
<tr>
<td>Carrying Case (1021, 1077)</td>
<td></td>
<td>$125</td>
</tr>
<tr>
<td>Rechargeable Battery Pack (1021, 1077)</td>
<td></td>
<td>$160</td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1021, 1077)</td>
<td></td>
<td>$195</td>
</tr>
</tbody>
</table>

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
### Voltage/Current/Resistance Calibrator

A portable multifunction calibrator with voltage, current, and resistance ranges. The 1017 is suitable for calibrating a wide range of instruments including thermocouples, transducers, transmitters, and platinum resistance thermometers.

**DC Voltage** 10nV to 100V  
**DC Current** 100nA to 100mA  
**Resistance** 10mΩ to 10kΩ  
**Accuracy** 0.005% of setting + 0.002% of rng  
**1ppm setting resolution**  
**Stability** <5ppm/day, <25ppm/yr  
**Noise** <2ppm (0.1 to 1Hz)  
**Deviation control Voltage and Current**  
**Battery or mains operation**  
**12 hours typical use between charges**  
**W9.8 x H4.6 x D12.2” • Weight: 5.3 lbs**

### Voltage and Current Calibrator

A precision handheld calibrator that can be used as a general purpose current and voltage source. High performance and ease of use make it suitable for test engineers, R&D, service, and calibration technicians.

**Measure voltage and current**  
**Source voltage and current**  
**3 voltage ranges 0 to 20V**  
**3 current ranges 0 to 20mA**  
**Accuracy 0.05% of range**  
**4.5 digit LCD display**  
**Battery powered 9V PP3**  
**28 hours typical battery life**  
**Supplied with carry case**  
**H5.5 x W3.0 x D2.0” • Weight: 0.7 lbs**

### Models / Extras

<table>
<thead>
<tr>
<th>Model Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1017 Voltage/Current/Resistance Calibrator</td>
<td>$2,825</td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert</td>
<td>$290</td>
</tr>
<tr>
<td>1044 Voltage and Current Calibrator</td>
<td>$975</td>
</tr>
<tr>
<td>1030 Voltage and Current Source</td>
<td>$625</td>
</tr>
<tr>
<td>110V Mains Power Supply (not charger) (1044)</td>
<td>$85</td>
</tr>
<tr>
<td>NIST/UKAS Battery Pack (1030)</td>
<td>$85</td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1044)</td>
<td>$168</td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1030)</td>
<td>$128</td>
</tr>
</tbody>
</table>

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## Voltage and Current Calibrator

A compact voltage, current, and process loop calibrator for engineering, manufacturing, test, and process control applications. The 1048 combines digital accuracy with simple analogue control and is well suited to plant operations such as powering control loops.

### FEATURES
- Source/measure voltage and current
  - 3 source ranges: 0 to 22mA and 0 to 22V
  - 3 measure ranges: 0 to 70mA and 0 to 50V
  - Accuracy 0.02% of range
- Transmitter simulator/sink loop control
- Output steps and ramps
- Fine adjustment (inchning)
- Battery powered 9V PP3, 20 hours typical use
  - H5.5 x W3.0 x D2.0” • Weight: 0.7 lbs

## Loop-Mate 1

Loop Simulator and Source

A cost-effective handheld loop simulator that provides 4 to 20mA or 0 to 10V loop signals. Features include manual and automatic step modes with audible indication that changes pitch as the output increases/decreases.

### FEATURES
- 4 to 20mA or 0 to 10V ranges
- Set-points: 0, 10, 25, 50, 75, 90, 100% of range
- Accuracy 0.1% of range
- TxSim or RxTest modes
- Internal loop supply, 25mA maximum
- Auto-stepping mode: up/down/up, 0.5, 1, 2, 4, or 8 sec/step
- Battery powered 9V PP3, 40 hours of typical use
  - Supplied with carry case
  - H5.5 x W2.5 x D1.2” • Weight - 0.4 lbs

### MODELS / EXTRAS

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1048 Voltage and Current Calibrator</td>
<td>$995</td>
<td></td>
</tr>
<tr>
<td>7005 Voltage/Current/Loop Calibrator</td>
<td>$1,335</td>
<td>Current measure: 125mA, source 50mA / Voltage measure: 25V, source 21V / Accuracy: Source 0.01% of setting, Measure: 0.01% of reading</td>
</tr>
<tr>
<td>110V Mains Power Supply (1048)</td>
<td>$85</td>
<td></td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1048)</td>
<td>$168</td>
<td></td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (7005)</td>
<td>$245</td>
<td></td>
</tr>
<tr>
<td>7006 Loop-Mate 1: Loop Simulator and Source</td>
<td>$410</td>
<td></td>
</tr>
<tr>
<td>7007 Loop-Mate 2: Loop Signal Indicator</td>
<td>$365</td>
<td>4 to 20mA, 0 to 10V, 0 to 50V ranges / LCD 4 digit display, mA, V, or % of range / Accuracy 0.05% of reading</td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert</td>
<td>$162</td>
<td></td>
</tr>
</tbody>
</table>

All Prices are Subject to Change. Call 1-800-921-9494 or visit www.easthillsinstruments.com
**PT100 Simulator**

A handheld precision simulator for PT100 0.3850 platinum resistance elements used for accurate temperature measurement. High performance metal film resistors are used throughout which ensures a good temperature coefficient and long term stability.

-200°C to +800°C with 23 set points
Accuracy ±0.3°C
Less than 30ppm/°C temperature coefficient
ITS-90 IEC60751
Exceeds class A
Passive resistance source
°F version available – 1050
1050 Range: -100°F to 1000°F, ±0.5°F accuracy
Carrying Case Included
H4.4 x W2.4 x D2.1" • Weight - 0.4 lbs

**Multifunction Process Calibrator**

A portable, key-press operation instrument that combines source and measurement functions for thermocouples, RTDs, mV and mA. The 1090 features a memory storage function that holds frequently used values.

Measures/simulates 8 thermocouple types, PT 100-RTD, mV and mA
Displays units in °C, °F, µV/mV, or mA
Accuracy: Source 0.02% of range, 0.5°C.
Measure 0.05% of range, 0.7°C
Automatic or manual cold junction compensation
Inching and step functions with time configurable steps
Process loops 4 to 20mA and 0 to 50mA
Mains or battery operation, 60 hours typical use
Battery Charger and Carrying Case Included
H9.2 x W5.9 x D2.9" • Weight - 2.8 lbs

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1049 PT100 Simulator (°C)</td>
<td>$550</td>
<td></td>
</tr>
<tr>
<td>1050 PT100 Simulator (°F)</td>
<td>$550</td>
<td></td>
</tr>
<tr>
<td>7000 RTD Temperature Calibrator</td>
<td>$1,495</td>
<td></td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1049, 1050)</td>
<td>$215</td>
<td></td>
</tr>
<tr>
<td>Mains Power Adaptor (7000)</td>
<td>$95</td>
<td></td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (7000)</td>
<td>$270</td>
<td></td>
</tr>
<tr>
<td>1090 Multifunction Process Calibrator</td>
<td>$2,750</td>
<td></td>
</tr>
<tr>
<td>7050 Process/Thermocouple Calibrator</td>
<td>$6,300</td>
<td></td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (1090)</td>
<td>$255</td>
<td></td>
</tr>
<tr>
<td>NIST/UKAS Calibration Cert (7050)</td>
<td>$595</td>
<td></td>
</tr>
</tbody>
</table>
**5025E Multifunction Calibrator**

A precision multi-product calibrator designed for wide calibration workload coverage at an affordable cost. Accurately test and verify both traditional and new test equipment with a calibrator that meets both technical and budget requirements.

- 0 to 1050V AC/DC voltage
- 0 to 22A AC/DC current
- 10Ω to 1GΩ resistance
- PT100 and Thermocouple simulation
- Digital frequency
- Capacitance
- Optional adaptor for clamp meter calibration
- RS-232 and USB interfaces
- PC Virtual Control Software included
- Supplied with 5 piece test lead set
- W17.7 x H6.0 x D18.7” • Weight: 36.4 lbs

**5075 Precision Digital Multimeter**

A benchtop digital multimeter that combines high performance with simple operation. The 5075 easily measures from nanovolts to 10kV, from picoamps to 30 amps, from micro-ohms up to 1GΩ, from picofarads to 300µF, with up to 7 1/2 digit accuracy.

- 7 digit resolution
- 10nV to 10kV, 10pA to 30A
- Resistance, Capacitance, and Frequency
- 18ppm accuracy/best 1 year
- 10 channel low thermal emf scanner option
- PC/laptop control via EasyCal software
- GPIB interface (USB adaptor available)
- Rack mount kit option
- W16.5 x H3.5 x D16.2” • Weight: 18.7 lbs
CalBench is the ultimate multifunction calibration station from Time Electronics. Each bench is custom-made to meet specific user requirements. Offering versatility and precision it is ideal for laboratories and workshops in need of multi-product testing that meets the highest industry standards. A wide range of modules can be fitted to the primary console creating a highly flexible system that is both functional and easy to use. Further expansion can be achieved by adding the secondary console, mounted under the primary. Calibration modules cover electronic signal, temperature, loop, and pressure applications.

Common applications include the calibration of:
- **Pressure**: Gauges, Calibrators, Transducers, Transmitters, Indicators, Switches, Valves.
- **Temperature & Loop**: Sensors, Indicators, Thermocouple and RTD Transmitters, Calibrators, PRTs, Thermistors.
- **Electrical/Electronic**: Multimeters, AC/DC Signal Sources, Clamp Meters, Tachometers, Ohmmeters, Decade Boxes.
- **Frequency**: Signal Generators, Oscilloscopes, Frequency Meters, Timer Counters.

**And Much More**: Incorporate various test equipment for Flow, Level, Mass, Mechanical, Dimensional, and more.

CalBenches are used in test facilities across the world. It provides customers with a high performance system for the necessary applications within their respective industries.

**Popular Industries**: Petrochemical, Power Generation, Oil & Gas, Manufacturing, Nuclear, Automation, Automotive, Aeronautics, Transport, Telecomms, Pharmaceuticals, R & D, Metrology, Process, and Education.

**Popular Locations**: Processing Plants, Offshore Platforms, Refineries, Power Plants, Engineer Training Centers, Schools and Universities, Calibration Laboratories, R & D Labs, Manufacturing Plants.

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- **Pressure**: Precision calibrators, indicators, and controller modules. Ranges from vacuum to 600bar.
- **Power Supplies**: Fixed and adjustable AC and DC power supplies, dual and programmable units.
- **Loop & Temperature**: High accuracy loop calibrator modules with source, measure and sink functions. Temperature calibrators for measuring & simulating RTDs/thermocouples.

**Multifunction Calibrator and DMM Modules**: The 7051 provides high accuracy multi-product calibration and has an internal 6 1/2 digit multimeter. Also available are the 5065B (6 1/2 digit) and 5075B (7 1/2 digit) DMM modules.

**Additional Modules**: Further modules include oscilloscopes, frequency counters, function generators, and harmonics analyzers. Custom design modules can be fitted allows the user to integrate a familiar instrument into their system.

**External Options**: Pneumatic and hydraulic calibration pumps, pressure gauges, dead weight testers, dry block calibrators, pressure test kits, hoses and connectors, test lead sets, solder stations, vices, and much more.

**Accessories**: To improve usability and create a more efficient workspace drawers, cabinets, PC holders, tool holders for the perforated back panel, and more can be added. All fittings meet U.S. standard.

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<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>FEATURES</th>
<th>MODELS / EXTRAS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Insulated Industrial Cutters/Drivers Set</strong>&lt;br&gt;<strong>Wi-15-11</strong>&lt;br&gt;10,000 Volt Tested, 1,000 Volt Rated Made by Wiha from High Quality Forged CV Tool Steels Individually Tested &amp; Meet VDE, EN/IEC ASTM, NFPA, CSA, ISO Guaranteed Professional Quality Insulated Industrial Pliers/Cutters induction hardened to 64HRC SKU: 32977 Weight (lbs): 5.7</td>
<td><strong>10,000 Volt Tested, 1,000 Volt Rated High Quality forged C70 Tool Steel Induction Hardened Cutting Edges Ergonomic SoftFinish Grips Finger jam protection Ergonomic Wiha SoftFinish multi-component handle with roll-off protection Cushioned Grip For maximum comfort and power Perfect fit for your Hand because of Wiha handle size concept SKU: 32985 Weight (lbs): 2.5</strong></td>
<td><strong>Wi-15-11..............................................$269</strong></td>
</tr>
<tr>
<td><strong>7 Piece Pliers/Cutters &amp; Screwdrivers Set</strong>&lt;br&gt;<strong>Wi-14-7</strong>&lt;br&gt;10,000 Volt Tested, 1,000 Volt Rated Made by Wiha from High Quality Forged CV Tool Steels Individually Tested &amp; Meet VDE, EN/IEC ASTM, NFPA, CSA, ISO Guaranteed Professional Quality Insulated Industrial Pliers/Cutters induction hardened to 64HRC SKU: 32977 Weight (lbs): 5.7</td>
<td><strong>Corrosion Protective Chrome Finish Exact Fit Precision Machined Tips Precision Handle Molded on handle for permanent bond to blade The Tapered Shape allows rapid rotation Handles Proportioned to Blade Size for optimum torque Precision Turning and Control with the Rotating Cap Useful Canvas Pouch to keep your work station tidy SKU: 26199 Weight (lbs): 0.55</strong></td>
<td><strong>Wi-14-7.....................................................$159</strong></td>
</tr>
<tr>
<td><strong>8 Piece Precision Screwdrivers Set</strong>&lt;br&gt;<strong>Wi-12-8</strong>&lt;br&gt;Precision Slotted &amp; Phillips Screwdriver 8 Piece Set Includes: Slotted 1.0, 2.0, 3.0, 4.00mm &amp; Phillips #000, 0, 0, 1. In Canvas Pouch.</td>
<td></td>
<td><strong>Wi-12-8....................................................$58</strong></td>
</tr>
</tbody>
</table>

All Prices are Subject to Change. Call 1-800-921-9494 or visit [www.easthillsinstruments.com](http://www.easthillsinstruments.com)
### Description

**Wi-16-37**

**37 Piece Power Blade Set**

- 36 Power Blades with SoftFinish Cushion Grip Handle and case.
- Features CentroFix high precision blade holder.

**Wi-17-8**

**8 Piece Industrial Pliers/Cutters Set**

- Ergo Soft Grip Industrial 6.3” Combo Pliers, 9” Lineman’s, 6.3” & 8” Long Nose, 5.5” Diagonal Cutters, 8” Heavy Duty Cutter, 10” Adjustable Pliers and Stripper in Canvas Pouch 8 Piece Set.

**Wi-13-80**

**80 Piece Insulated Set In Rolling Case**

- Screwdrivers, Nut Drivers, Pliers, Cutters, Ruler, Knife, Sockets in 22” L x 13 3/4” W x 9” H Rolling Tool Case.

### Applications & Industries

**Wi-16-37**

CentroFix Power Blade handle
Rugged canvas folding wallet
SKU: 76099
Weight (lbs): 2.06

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**Wi-17-8**

Adjustable Pliers and Stripper
High Quality forged C70 Tool Steel
Induction Hardened Cutting Edges and Jaws
Ergonomic Molded Two Component Soft Comfort Grips
Molded in Slip guards for added user protection
Finger jam protection for safe operation at all settings
SKU: 30998
Weight (lbs): 4.91

---

**Wi-13-80**

10,000 Volt Tested 1,000 Volt Rated
Each Tool Has Dedicated Position For Easy Storage & Retrievals
Lockable Rolling Water Tight Case Keeps Your Tools Secure
All Wiha Insulated Tools Individually Tested For Insulation Integrity
SKU: 32800
Weight (lbs): 41.5

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**Models / Extras**

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